

Pro GreenfieldTM Board Room Solutions



10 Problems in **Boardroom Meetings** (Video & Local)

- ▶ **Miniature Participant Views** – Participants appear extremely small on screen, reducing visibility and engagement.
- ▶ **Limited Participant Visibility During Content Sharing** – When presentations are shared, more than nine participants become invisible, breaking interaction.
- ▶ **Difficulty Identifying Individuals** – A large number of connected participants makes it hard to recognize individuals, even when no content is being shared.
- ▶ **Poor Content Viewability in Large Rooms** – Participants seated beyond 2.5 times the display's diagonal size cannot clearly view shared content.
- ▶ **Low Display Quality Impact** – Inferior display resolution further reduces readability and viewing comfort in boardrooms.
- ▶ **Lack of Automatic Speaker Tracking** – Cameras do not focus on the active speaker automatically and instantly, disrupting meeting flow.
- ▶ **Ineffective Audio Pickup** – Table-top microphones deliver poor audio quality, leading to repetition and wasted meeting time.
- ▶ **Communication and Understanding Gaps** – Audio-visual limitations create misunderstandings, making alignment difficult in meetings.
- ▶ **Inadequate Lighting Conditions** – Poor lighting negatively affects video clarity and participant presence.
- ▶ **Sub-par Executive Meeting Experience** – Senior management lacks a high-quality “two-location large meeting” experience without physical travel, worsened by poor eye contact due to bird’s-eye camera views.



13 PAX

Core DTEN ALL-In-One

MS Teams / Zoom Medium Boardroom Solutions

Transforms your medium boardrooms with All-in-One 75" that delivers a superior MS Teams / Zoom decluttering the meetings.

SEE THE DIFFERENCE

AI Video That Understands the Room
The D7X AI's 4K dual Ultra HD camera suite captures every participant with precision

- **LIDAR laser light sensor technology** maps the room in 3D and autonomously recognizes glass walls and windows.
- **Adaptive Framing** auto-detects people and dynamically adjusts composition.
- **Intelligent Focus** recognizes speakers and maintains natural eye contact across the room.
- **48MP Center Camera** with 102° FOV plus dual AI 4K cameras offering 160° combined FOV delivers full-scene coverage with crisp, cinematic detail.
- **Smart Lighting Adjustment** enhances visibility in challenging conditions.

HEAR THE DIFFERENCE

AI Audio That Tunes to You
A 15-element microphone array isolates speech at the source to improve clarity for all.

- **Beamforming** technology with voice tracking ensures optimal clarity across every seat, even as participants move.
- **Adaptive noise cancellation** removes background hum and chatter.
- **40 watt front-facing stereo speakers** fill the room with lifelike sound for improved clarity and coverage.
- **Continues real-time updates** to maintain consistent audio performance.

COLLABORATE BETTER THAN EVER

Intuitive Touch and AI Collaboration Tools

- **Write, sketch, and annotate** on the **ultra-responsive 4K, 20-point capacitive touch display** with 70% faster response rate than standard displays.
- **Natural ink experience** with **auto-shape and color recognition**.
- **Integrated whiteboard AI suggestions** help organize ideas automatically.
- **Instant save and share** through **Microsoft Whiteboard** integration or **Zoom Whiteboard**.
- **Access websites and line-of-business applications** through **Microsoft Edge in Teams Rooms**.

Key Capabilities of Medium Boardrooms Solution with DTEN ALL-IN-ONE

- ▶ **DTEN mate** doubles up as **one touch to join touch panel** with **annotation & whiteboarding** capability while also providing **6 additional microphones** with roll out **USB C Cable for BYOD meetings & presentations**.
- ▶ For a further **far site participants** video premium experience, **VUPRO cameras** gives the capability to **increase HFoV from 95° to 160°** and also gives you **upto 16 equalized windows** of **near participants to far site locations**.



17 PAX



Top View (13 PAX)



Old Lighting Image



Top View (17 PAX)



New Lighting Image



Enhanced DTEN ALL-IN-ONE MS Teams Medium Boardroom Solutions

Transforms your medium boardrooms with All-in-One 75" that delivers a superior MS Teams decluttering the meetings.

SEE THE DIFFERENCE

AI Video That Understands the Room
The D7X AI's 4K dual Ultra HD camera suite captures every participant with precision

- **LiDAR laser light sensor technology** maps the room in 3D and autonomously recognizes glass walls and windows.
- **Adaptive Framing** auto-detects people and dynamically adjusts composition.
- **Intelligent Focus** recognizes speakers and maintains natural eye contact across the room.
- **48MP Center Camera** with 102° FOV plus dual AI 4K cameras offering 160° combined FOV delivers full-scene coverage with crisp, cinematic detail.
- **Smart Lighting Adjustment** enhances visibility in challenging conditions.

HEAR THE DIFFERENCE

AI Audio That Tunes to You
A 15-element microphone array isolates speech at the source to improve clarity for all.

- **Beamforming** technology with voice tracking ensures optimal clarity across every seat, even as participants move.
- **Adaptive noise cancellation** removes background hum and chatter.
- **40 watt front-facing stereo speakers** fill the room with lifelike sound for improved clarity and coverage.
- **Continues real-time updates** to maintain consistent audio performance.

COLLABORATE BETTER THAN EVER

Intuitive Touch and AI Collaboration Tools

- **Write, sketch, and annotate** on the **ultra-responsive 4K, 20-point capacitive touch display** with 70% faster response rate than standard displays.
- **Natural ink experience** with **auto-shape and color recognition**.
- **Integrated whiteboard AI suggestions** help organize ideas automatically.
- **Instant save and share** through **Microsoft Whiteboard** integration or **Zoom Whiteboard**.
- **Access websites and line-of-business** applications through **Microsoft Edge in Teams Rooms**.

Key Capabilities of **Medium Boardrooms Solution with DTEN ALL-IN-ONE**

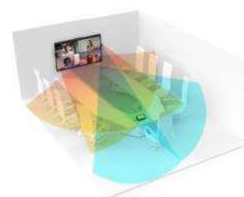
- ▶ Coupled with **people & content separation** native **MS Teams meetings**.
- ▶ For Viewing **separate video & content**, **touch content monitors** are provided for **every 2 / 3 participants**.
- ▶ For a further far site participants **video premium experience**, **VUPRO cameras** gives the capability to **increase HFoV from 95° to 160°** and also gives you upto **16 equalized windows** of **near participants to far site locations**.
- ▶ Optional additional **wall mounted wireless audio speakers**.



**TOP View
(17 PAX)**



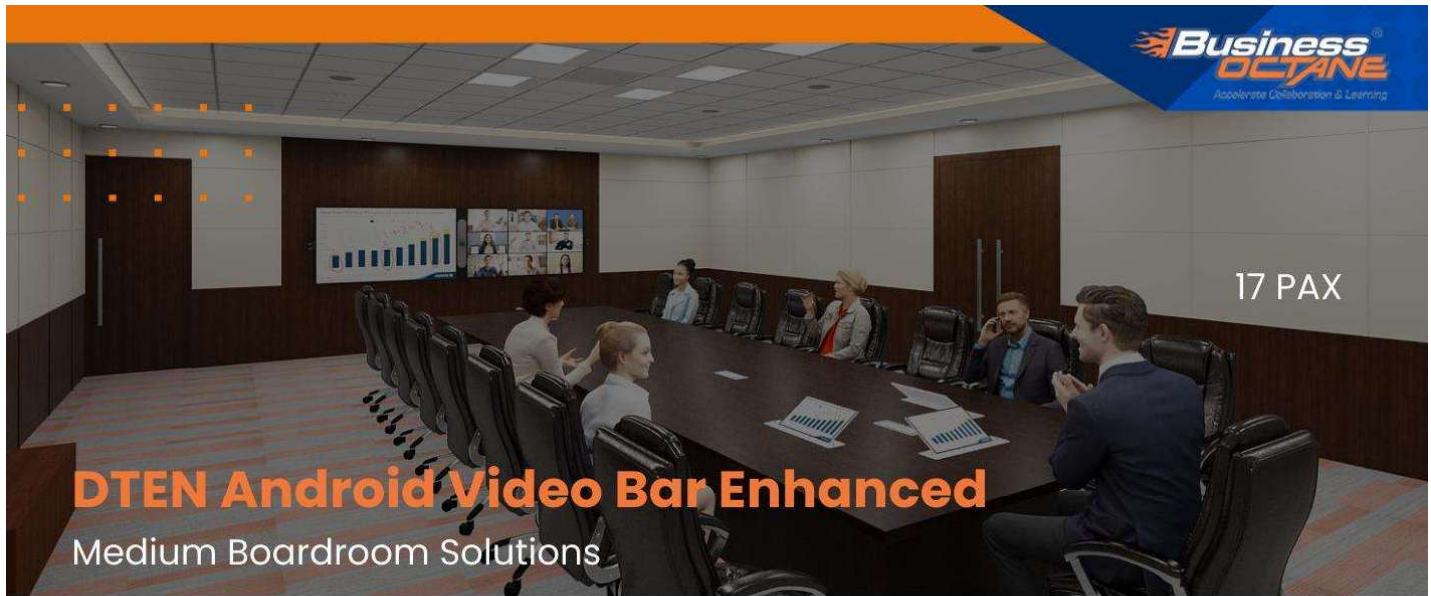
**TOP View
(13 PAX)**



Old Lighting Image



New Lighting Image



DTEN Android Video Bar Enhanced Medium Boardroom Solutions

Transforms your Boardroom with this powerful All-in-One Android Video Bar that delivers exceptional audio-video quality for one touch native MS Teams / Zoom meetings with video & presentation separation

Key Capabilities of **Medium Boardrooms Solution with DTEN Android Video Bar**

- ▶ The only **Camera Bar** that when **mounted vertically** gives you the **perfect eye contact** on account of camera eye mounted between **4.5 to 5 feet height**.
- ▶ **Removes the need for bringing laptop** to join the meetings and **provides one touch meeting joining** convenience for **MS Teams & Zoom**, that also with **Video & Content separation**.
- ▶ **12 Microphone array & integrated stereo speakers** provide **high quality audio experience** in a **25 Feet long room**. For longer rooms DTEN relay speakers extend the experience and enhance every voice
- ▶ **Built-in AI Technology** based camera **equalizes seated & standing** and **near & far participants** heads and size for remote locations giving all **participants an equal say**.
- ▶ Business Octane **content monitors** allow **senior management** to see **content crystal clear** along with **annotation & whiteboarding**.
- ▶ Using a **4K Camera**, with **Field View of 95° HFoV / 105° VFoV** covers all closely seated participants.
- ▶ For a further far site participants video premium experience, **VUPRO cameras** gives the capability to **increase HFoV from 95° to 160°** and also gives you upto **16 equalized windows** of near participants to far site locations.
- ▶ **DTEN mate** doubles up as one touch to join **touch panel with annotation & whiteboarding** capability while also providing **6 additional microphones** with roll out **USB C Cable for BYOD meetings & presentations**.
- ▶ One **USB C Cable** that **charges your laptop** while **sharing presentation or BYOD video Calls**.
- ▶ Optional additional **wall mounted wireless speakers cum microphones** provide **additional high quality audio**.

- ▶ The **only Camera bar** to have a **big red & green light ring** to indicate whether **mic is on or off**.



Top View
(13 PAX)



Top View
(17 PAX)



Old Lighting Image



New Lighting Image



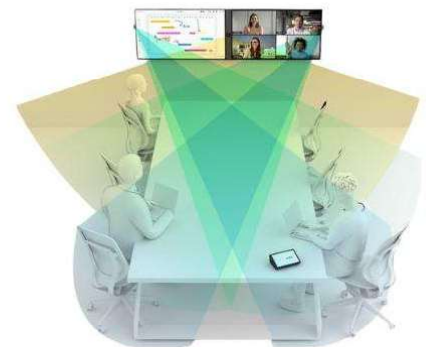
DTEN Dual 75"

VC System for Amazing Clutterless Boardrooms

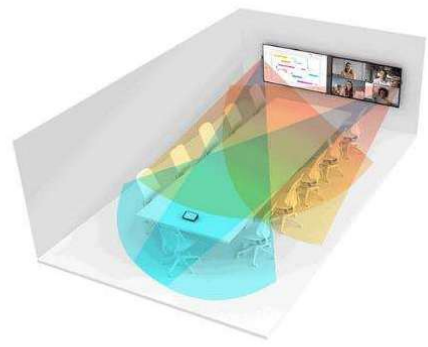
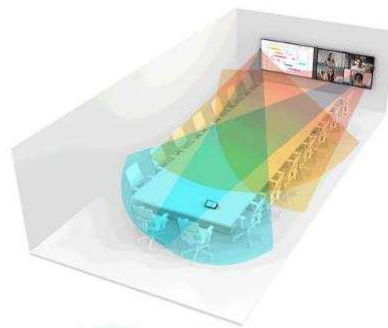
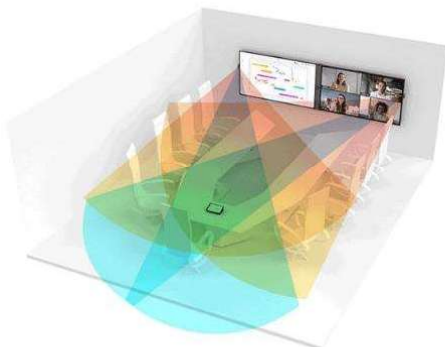
The DTEN Dual's spacious 75" displays enable more engaging and meaningful meeting sessions with dedicated screen space for shared content and remote meeting participants. It includes an innovative 5-camera system uniquely designed to capture in-room participants at eye level, whether seated in front, to the side, near or far.

Key Capabilities of DTEN Dual 75"

- ▶ The DTEN Dual 75" displays enable more engaging and meaningful meeting sessions with dedicated screen space for shared content and remote meeting participants.
- ▶ Innovative eye-level camera system designed for comfortable eye-level communications
- ▶ One single USB-C cable connectivity for presentations and BYOD that also charges your laptop too.
- ▶ 15 Microphone array & integrated stereo speakers provide high quality audio experience.
- ▶ Ultra-clear 4K visuals, expansive 160° FoV, and smart auto-framing coverage and intelligent Zoom Rooms framing for flawless hybrid collaboration.
- ▶ Smart Gallery technology automatically optimizes the meeting experience for you by adapting to people entering or leaving the room, so there's no need for someone to manage the room settings or constantly reposition the camera to capture everyone.



Adaptive Design for Crystal-Clear Conversations in Any Sized Space.



13 PAX

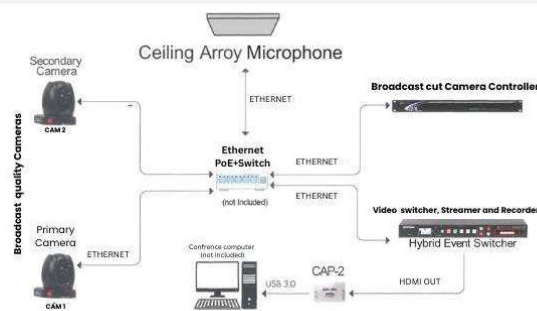
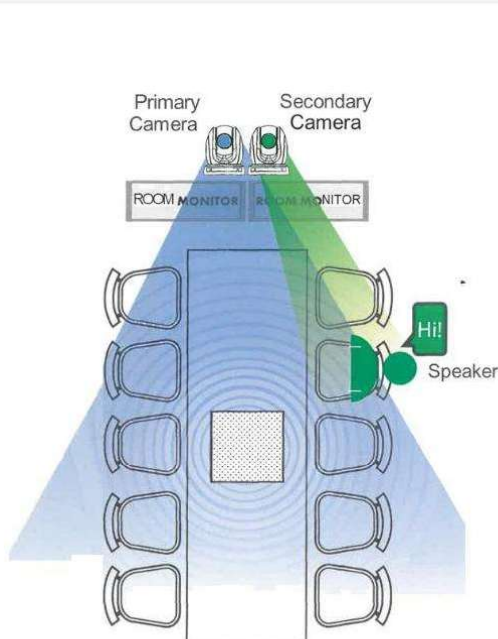
Core Broadcast Cut

Medium Boardroom automatic camera Switching & tracking

World's best automated multiple camera switching & camera movement solution, coupled with high quality audio.

Key Capabilities of Core Medium Boardroom Solutions

- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ **DSP optimized great audio** with a choice of ceiling microphones, wired & wireless boundary microphones helps you to **reduce communication gaps** among participants.
- ▶ **People & content separation** empowers you to actually see the body language of far participants while empowering everyone to **read the content clearly**.
- ▶ On table **touch content monitors** also empower you to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **Optimized video lighting** falling at **45* Degree** on the participants faces sends **bright visuals**.



Top View (13 PAX)



17 PAX



Top View (17 PAX)

13 PAX

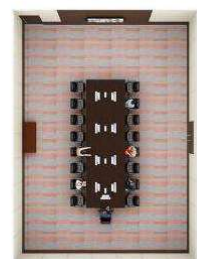
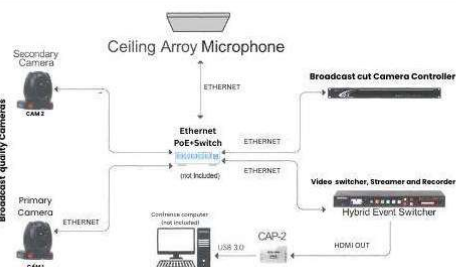
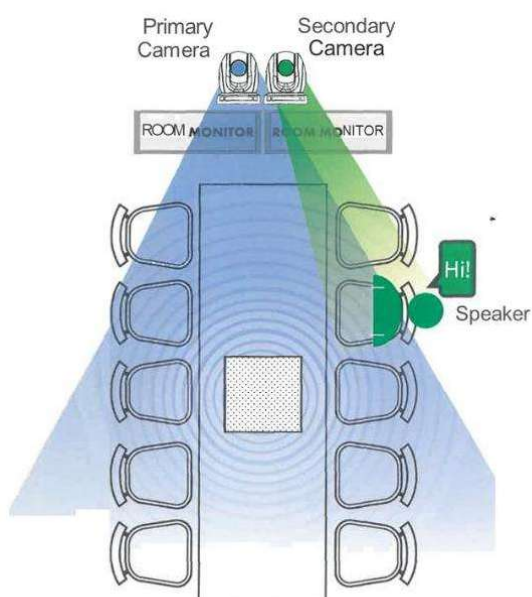
Advanced Broadcast Cut

Medium Boardroom automatic camera switching & tracking

World's best automated multiple camera switching & camera movement solution, coupled with high quality audio and separation of video and presentation provides an advanced experience for your board meetings.

Key Capabilities of **Advanced Medium Boardroom Solutions**

- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ **DSP** optimized great audio with a choice of ceiling microphones, wired & wireless boundary microphones helps you to **reduce communication gaps** among **participants**.
- ▶ **People & content separation** empowers you to actually see the body language of far participants while empowering everyone to **read the content clearly**.
- ▶ On table **touch content monitors** also empower you to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **Optimized video lighting** falling at **45° Degree** on the participants faces sends **bright visuals**.



TOP View
(17 PAX)



TOP View
(13 PAX)



13 PAX

Advanced+ Broadcast Cut Medium Boardroom Solution

World's best automated multiple camera switching & camera movement solution, coupled with high quality audio and separation of gallery view, active/pinned speaker and the presentation.

Key Capabilities of **Advanced+ Medium Boardroom Solutions**

- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ Get to see the **far active speaker automatically** or **by pinning** while similarly **seeing separate presentation** and **gallery view of all remote participants**.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ **DSP** optimized great audio with a **choice of ceiling microphones, wired & wireless boundary microphones** helps you to **reduce communication gaps** among **participants**.
- ▶ On table **touch content monitor** also **empower your chairman** to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **The character generator (CG)** function identifies **active speakers** in the room for far-end experience and recording purposes.
- ▶ **Optimized video lighting** falling at **45* Degree** on the participants faces sends **bright visuals**.



17 PAX

13 PAX

Advanced++ Broadcast Cut Medium

Boardroom Solution

World's best automated multiple camera switching & camera movement solution, coupled with high quality audio and separation of gallery view, active/pinned speaker and the presentation.

Key Capabilities of **Advanced++ Medium Boardroom Solutions**

- ▶ **32:9 active LED display** provides you the option the **content in video meetings** in the center too while seeing **gallery & active / pinned speakers on both side**.
- ▶ Get to see the **far active speaker automatically** or **by pinning** while similarly **seeing separate presentation** and **gallery view of all remote participants**.
- ▶ **DSP optimized** great audio with a **choice of ceiling microphones, wired & wireless boundary microphones** helps you to **reduce communication gaps** among participants.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **32:9 active LED display** gives you **additional choice of seeing two presentors** at the same time for **easy comparison** as well as **seeing a large gallery** of participants with separate presentation.
- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ On table **touch content monitor** also **empower your chairman** to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **The character generator (CG)** function identifies **active speakers** in the room for far-end experience and recording purposes.
- ▶ **Optimized video lighting** falling at **45° Degree** on the participants faces sends **bright visuals**.



17 PAX

Advanced++ Broad Cast Cut Medium

Boardroom Solution

World's best automated multiple camera switching & camera movement solution, coupled with high quality audio and separation of gallery view, active/pinned speaker and the presentation.

Key Capabilities of **Advanced++ Medium Boardroom Solutions**

- ▶ **32:9 active LED display** provides you the option the **content in video meetings** in the center too while seeing **gallery & active / pinned speakers on both side**.
- ▶ Get to see the **far active speaker automatically** or **by pinning** while similarly **seeing sepearte presentation** and **gallery view of all remote participants**.
- ▶ **DSP optimized great audio** with a **choice of ceiling microphones, wired & wireless boundary microphones** helps you to **reduce communication gaps** among **participants**.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **32:9 active LED display** gives you **additional choice of seeing two presentors** at the same time for **easy comparison** as well as **seeing a large gallery** of participants with sepearte presentation.
- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ On table **touch content monitor** also **empower your chairman** to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **The character generator (CG)** function identifies **active speakers** in the room for far-end experience and recording purposes.
- ▶ **Optimized video lighting** falling at **45° Degree** on the participants faces sends **bright visuals**.





Ultra Immersive Two-in-One

13 PAX Telepresence Board Rooms

Experience the next evolution of collaboration with **Ultra Immersive Telepresence Board Rooms**—where **physical meetings are carried out in classic way** and for virtual meetings you now get the option of **conventional way** or with **immersive telepresence experience** where **virtual meetings blend seamlessly** into one unified experience. Whether your team is seated around the table or joining remotely over video, everyone feels equally present, engaged, and connected.

Key Capabilities of **Ultra Immersive Telepresence Board Rooms**

- ▶ Experience life like Telepresence in your boardrooms that makes **virtual meetings feel truly in-room** along with high quality local meeting experience.
- ▶ Seamless hybrid collaboration with **crystal-clear video and natural eye-level communication** in both ways - Conventional as well as in Ultra immersive telepresence.
- ▶ **Ensures equal participation** – whether attendees are physically present or joining remotely.
- ▶ Empowers your **Conventional boardrooms to deliver a face-to-face feel** that eliminates the gap between physical and virtual meetings.
- ▶ **Perfect for large boardrooms** seeking high-quality, immersive meeting experiences too while leveraging existing investments .



Local Meetings like this ↗



Conventional Video Meetings like this ↗

You can
have your
Cake
and
eat it too!



Multi location Immersive Telepresence Video Meetings like this ↗



Two location Immersive Telepresence Video Meetings like this ↗

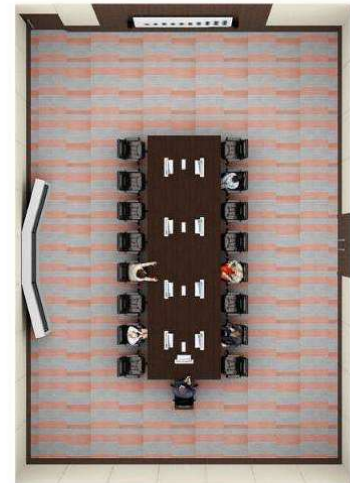
Ultra Immersive Two-in-One

17 PAX Telepresence Board Rooms

Experience the next evolution of collaboration with **Ultra Immersive Telepresence Board Rooms**—where **physical meetings are carried out in classic way** and for virtual meetings you now get the option of **conventional way** or with **immersive telepresence experience** where **virtual meetings blend seamlessly** into one unified experience. Whether your team is seated around the table or joining remotely over video, everyone feels equally present, engaged, and connected.

Key Capabilities of Ultra Immersive Telepresence Board Rooms

- ▶ Experience life like Telepresence in your boardrooms that makes **virtual meetings feel truly in-room** along with high quality local meeting experience.
- ▶ Seamless hybrid collaboration with **crystal-clear video and natural eye-level communication** in both ways - Conventional as well as in Ultra immersive telepresence.
- ▶ **Ensures equal participation** – whether attendees are physically present or joining remotely.
- ▶ Empowers your **Conventional boardrooms to deliver a face-to-face feel** that eliminates the gap between physical and virtual meetings.
- ▶ **Perfect for large boardrooms** seeking high-quality, immersive meeting experiences too while leveraging existing investments .



Local Meetings like this ↗



Conventional Video Meetings like this ↗

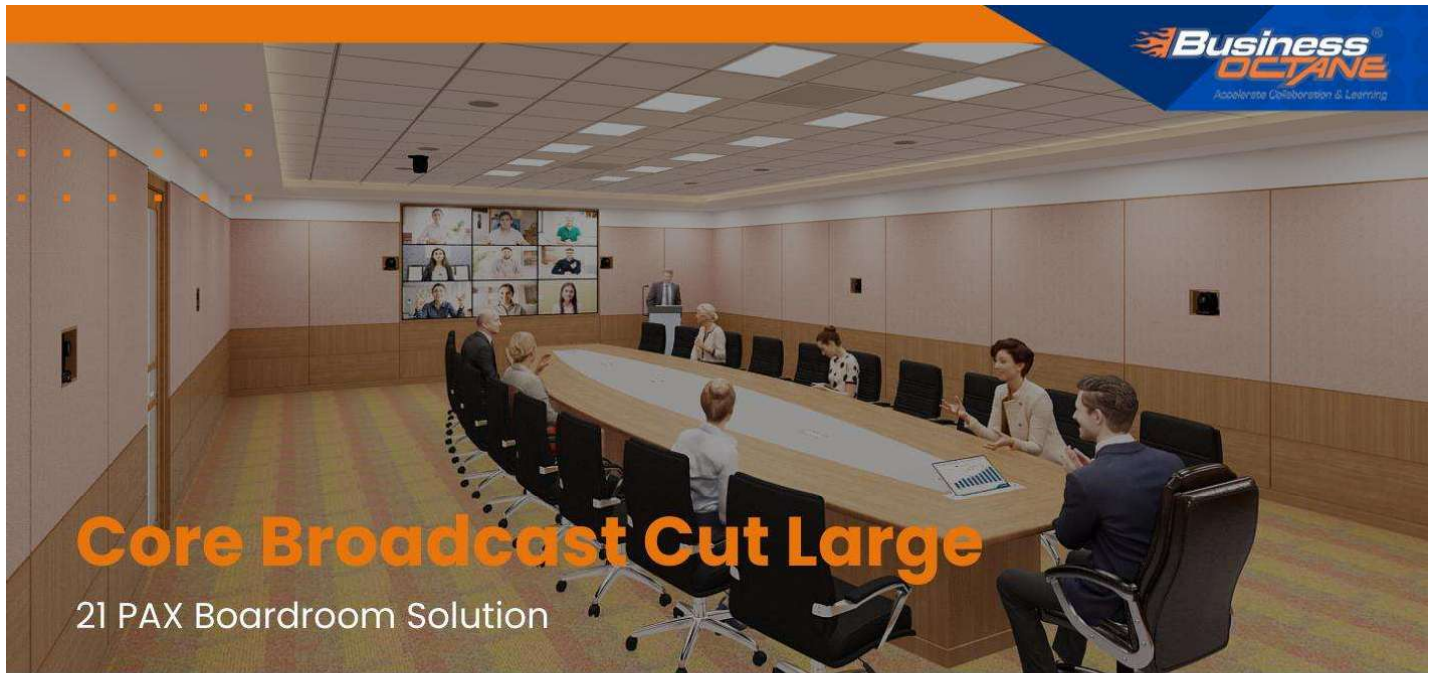


Multi location Immersive Telepresence Video Meetings like this ↗



Two location Immersive Telepresence Video Meetings like this ↗

You can
have your
Cake
and
eat it too!



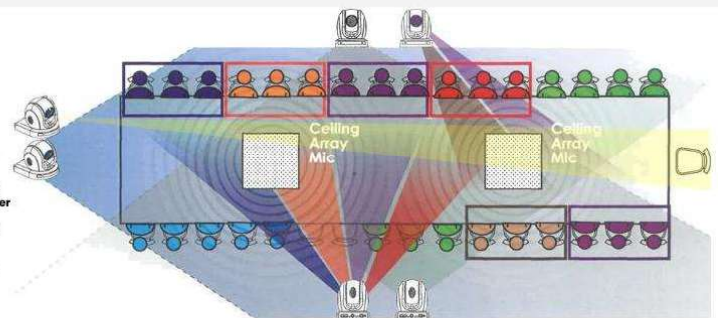
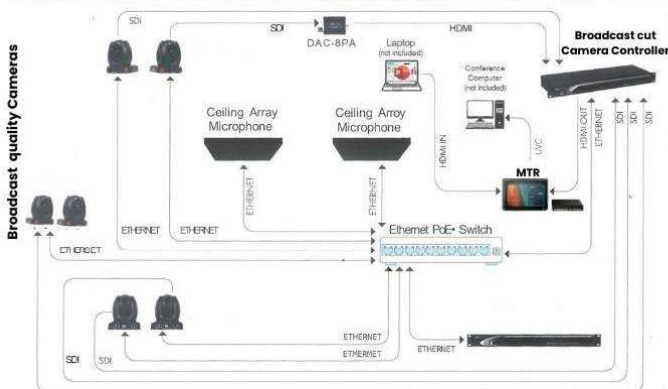
Core Broadcast Cut Large

21 PAX Boardroom Solution

World's best automated multiple camera switching & camera movement solution, coupled with high quality audio.

Key Capabilities of **Core Large Boardroom Solutions**

- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ **DSP** optimized great audio with a choice of ceiling microphones, wired & wireless boundary microphones helps you to **reduce communication gaps** among participants.
- ▶ **People & content separation** empowers you to actually see the body language of far participants while empowering everyone to **read the content clearly**.
- ▶ On table **touch content monitors** also empower you to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **Optimized video lighting** falling at **45° Degree** on the participants faces sends **bright visuals**.





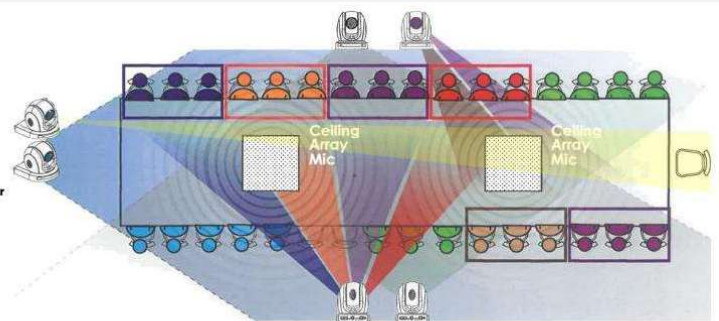
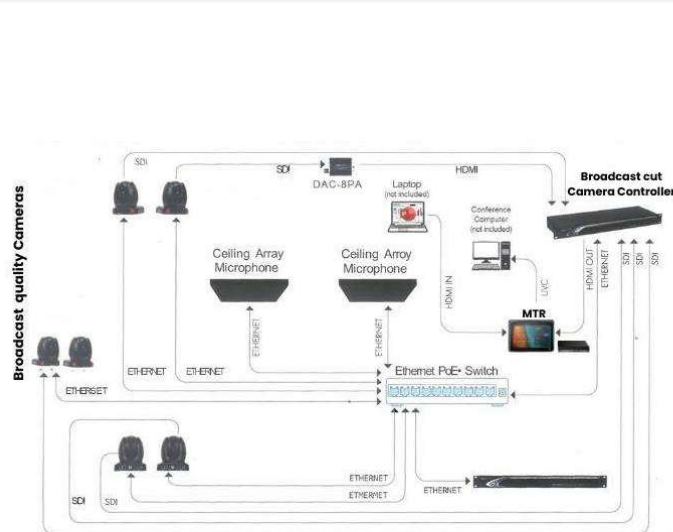
Advanced Broadcast Cut Large

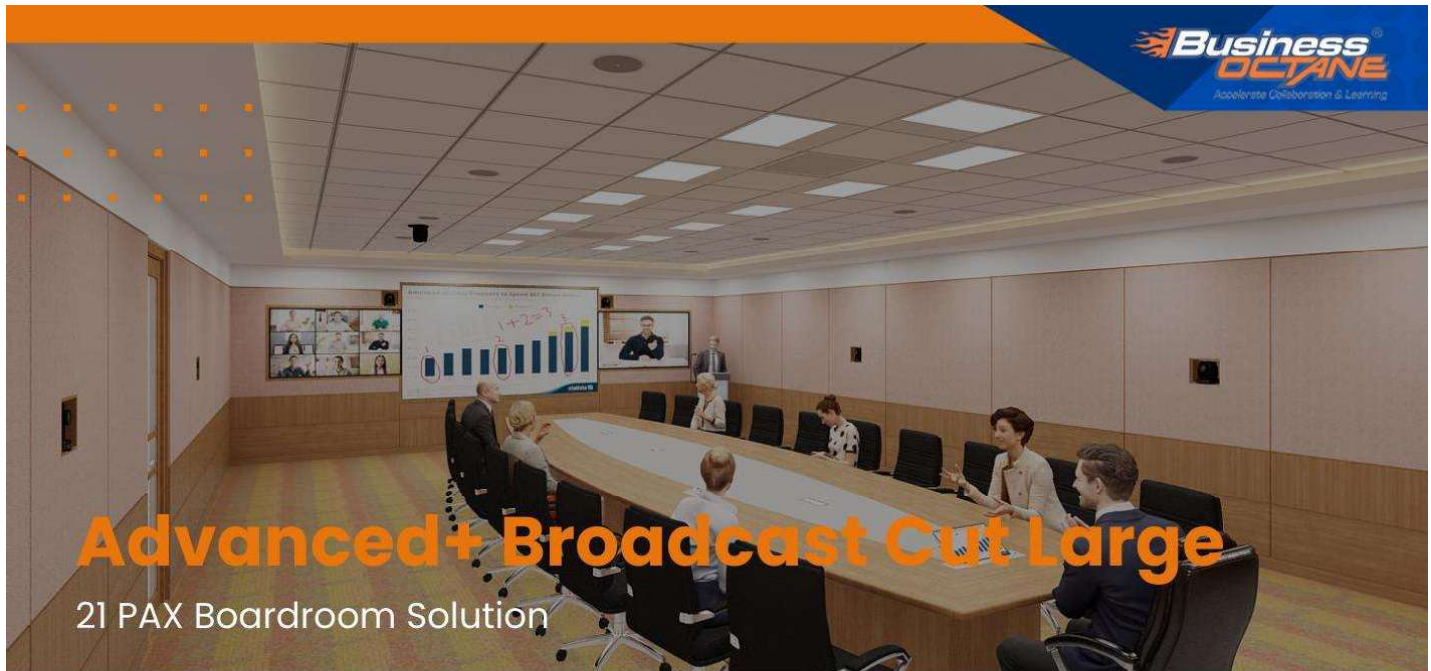
21 PAX Boardroom Solution

World's best automated multiple camera switching & camera movement solution, coupled with high quality audio and separation of video and presentation provides an advanced experience for your board meetings.

Key Capabilities of **Advanced Large Boardroom Solutions**

- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ **DSP** optimized great audio with a choice of ceiling microphones, wired & wireless boundary microphones helps you to **reduce communication gaps** among **participants**.
- ▶ **People & content separation** empowers you to actually see the body language of far participants while empowering everyone to **read the content clearly**.
- ▶ On table **touch content monitors** also empower you to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **Optimized video lighting** falling at **45* Degree** on the participants faces sends **bright visuals**.





World's best automated multiple camera switching & camera movement solution, coupled with high quality audio and separation of gallery view, active/pinned speaker and the presentation.

Key Capabilities of **Advanced+ Large Boardroom Solutions**

- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ Get to see the **far active speaker automatically** or **by pinning** while similarly **seeing separate presentation** and **gallery view of all remote participants**.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ **DSP** optimized great audio with a **choice of ceiling microphones, wired & wireless boundary microphones** helps you to **reduce communication gaps** among participants.
- ▶ On table **touch content monitor** also **empower your chairman** to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **The character generator (CG)** function identifies **active speakers** in the room for far-end experience and recording purposes.
- ▶ **Optimized video lighting** falling at **45* Degree** on the participants faces sends **bright visuals**.





Advanced++ Broadcast Cut Large

21 PAX Boardroom Solution

World's best automated multiple camera switching & camera movement solution, coupled with high quality audio and separation of gallery view, active/pinned speaker and the presentation.

Key Capabilities of **Advanced++ Large Boardroom Solutions**

- ▶ **32:9 active LED display** provides you the option the **content in video meetings** in the center too while seeing **gallery & active / pinned speakers on both side**.
- ▶ Get to see the **far active speaker automatically** or **by pinning** while similarly **seeing separate presentation** and **gallery view of all remote participants**.
- ▶ **DSP optimized** great audio with a **choice of ceiling microphones, wired & wireless boundary microphones** helps you to **reduce communication gaps** among **participants**.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **32:9 active LED display** gives you **additional choice of seeing two presentors** at the same time for **easy comparison** as well as **seeing a large gallery** of participants with separate presentation.
- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ On table **touch content monitor** also **empower your chairman** to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **The character generator (CG)** function identifies **active speakers** in the room for far-end experience and recording purposes.
- ▶ **Optimized video lighting** falling at **45° Degree** on the participants faces sends **bright visuals**.





Ultra Immersive Two-in-One

21 PAX Telepresence Board Rooms

Experience the next evolution of collaboration with **Ultra Immersive Telepresence Board Rooms**—where **physical meetings are carried out in classic way** and for virtual meetings you now get the option of **conventional way** or with **immersive telepresence experience** where **virtual meetings blend seamlessly** into one unified experience. Whether your team is seated around the table or joining remotely over video, everyone feels equally present, engaged, and connected.

Key Capabilities of Ultra Immersive Telepresence Board Rooms

- ▶ Experience life like Telepresence in your boardrooms that makes **virtual meetings feel truly in-room** along with high quality local meeting experience.
- ▶ Seamless hybrid collaboration with **crystal-clear video and natural eye-level communication** in both ways - Conventional as well as in Ultra immersive telepresence.
- ▶ **Ensures equal participation** – whether attendees are physically present or joining remotely.
- ▶ Empowers your **Conventional boardrooms** to **deliver a face-to-face feel** that eliminates the gap between physical and virtual meetings.
- ▶ **Perfect for large boardrooms** seeking high-quality, immersive meeting experiences too while leveraging existing investments .



Local Meetings like this ↗



Conventional Video Meetings like this ↗



Multi location Immersive Telepresence Video Meetings like this ↗



Two location Immersive Telepresence Video Meetings like this ↗

You can
have your
Cake
and
eat it too!



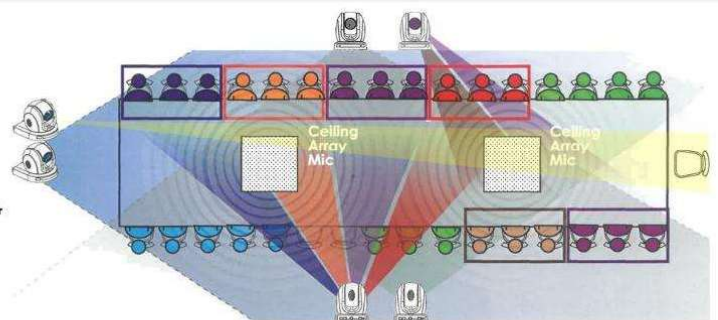
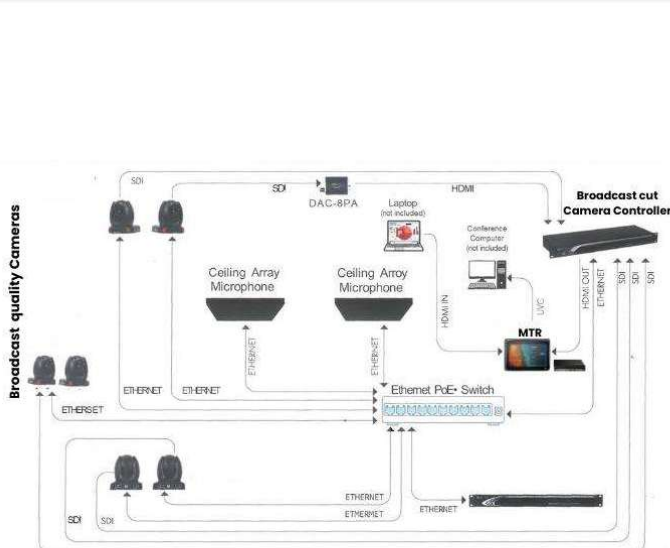
Core Broadcast Cut Very Large

37 PAX Boardroom Solution

World's best automated multiple camera switching & camera movement solution, coupled with high quality audio.

Key Capabilities of **Core Very Large Boardroom Solutions**

- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ **DSP optimized great audio** with a choice of ceiling microphones, wired & wireless boundary microphones helps you to **reduce communication gaps** among participants.
- ▶ **People & content separation** empowers you to actually see the body language of far participants while empowering everyone to **read the content clearly**.
- ▶ On table **touch content monitors** also empower you to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **Optimized video lighting** falling at **45° Degree** on the participants faces sends **bright visuals**.



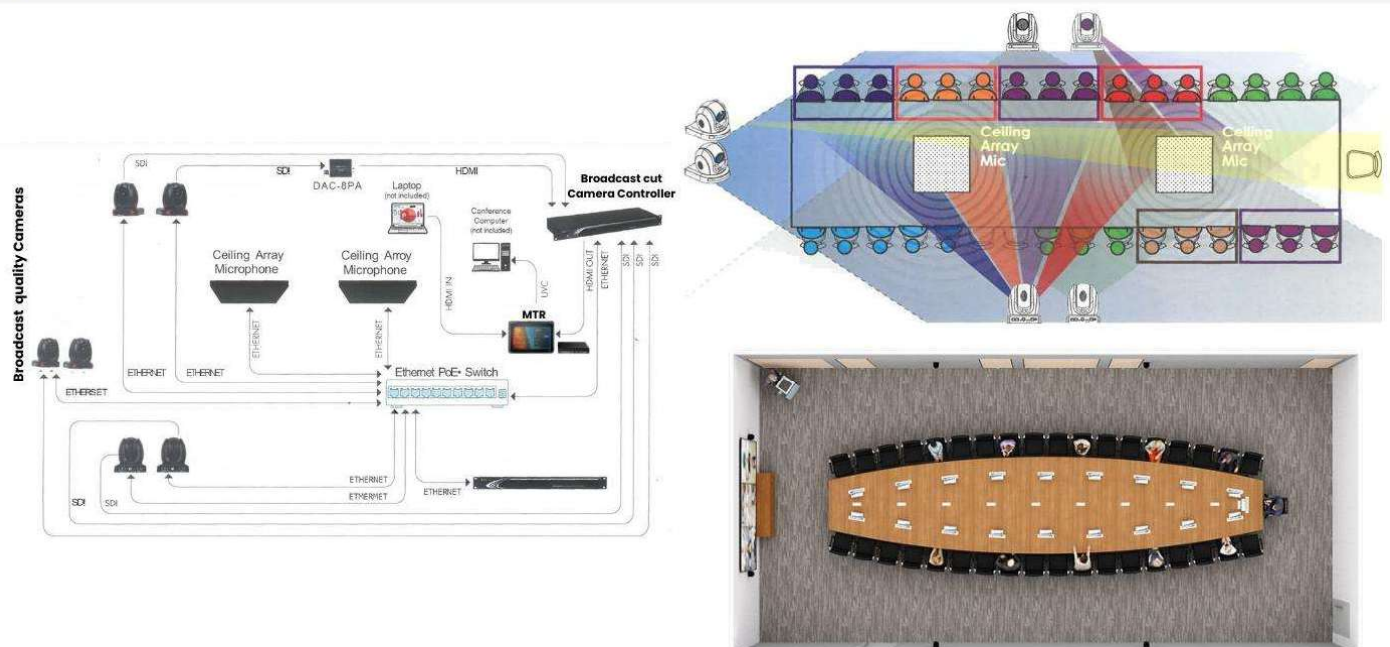
Advanced Broadcast Cut Very Large

37 PAX Boardroom Solution

World's best automated multiple camera switching & camera movement solution, coupled with high quality audio and separation of video and presentation provides an advanced experience for your board meetings.

Key Capabilities of **Advanced Very Large Boardroom Solutions**

- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ **DSP** optimized great audio with a choice of ceiling microphones, wired & wireless boundary microphones helps you to **reduce communication gaps** among participants.
- ▶ **People & content separation** empowers you to actually see the body language of far participants while empowering everyone to **read the content clearly**.
- ▶ On table **touch content monitors** also empower you to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **Optimized video lighting** falling at **45° Degree** on the participants faces sends **bright visuals**.



Advanced+ Broadcast Cut Very Large

37 PAX Boardroom Solution

World's best automated multiple camera switching & camera movement solution, coupled with high quality audio and separation of gallery view, active/pinned speaker and the presentation.

Key Capabilities of **Advanced+ Very Large Boardroom Solutions**

- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ Get to see the **far active speaker automatically** or **by pinning** while similarly **seeing separate presentation** and **gallery view of all remote participants**.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ **DSP optimized** great audio with a **choice of ceiling microphones, wired & wireless boundary microphones** helps you to **reduce communication gaps** among participants.
- ▶ On table **touch content monitor** also **empower your chairman** to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **The character generator (CG)** function identifies **active speakers** in the room for far-end experience and recording purposes.
- ▶ **Optimized video lighting** falling at **45* Degree** on the participants faces sends **bright visuals**.



Advanced++ Broadcast Cut Very Large

37 PAX Boardroom Solution

World's best automated multiple camera switching & camera movement solution, coupled with high quality audio and separation of gallery view, active/pinned speaker and the presentation.

Key Capabilities of **Advanced++ Very Large Boardroom Solutions**

- ▶ **32:9 active LED display** provides you the option the **content in video meetings** in the center too while seeing **gallery & active / pinned speakers on both side**.
- ▶ Get to see the **far active speaker automatically** or **by pinning** while similarly **seeing separate presentation** and **gallery view of all remote participants**.
- ▶ **DSP optimized** great audio with a **choice of ceiling microphones, wired & wireless boundary microphones** helps you to **reduce communication gaps** among **participants**.
- ▶ **Advanced windowing**, such as **side-by-side, picture-in-picture, and picture-out-picture**, shows active speaker and presentation materials at the same time.
- ▶ **32:9 active LED display** gives you **additional choice of seeing two presentors** at the same time for **easy comparison** as well as **seeing a large gallery** of participants with separate presentation.
- ▶ Provides **clean switching for active speaker** so that you do not see cameras move into position creating an experience.
- ▶ **Far site views** of all **local participants** along with the **current active speaker** helps them feel as if they are a **part of local setup**.
- ▶ On table **touch content monitor** also **empower your chairman** to do annotation as well as multiple locations interactive whiteboarding.
- ▶ **The character generator (CG)** function identifies **active speakers** in the room for far-end experience and recording purposes.
- ▶ **Optimized video lighting** falling at **45° Degree** on the participants faces sends **bright visuals**.





Ultra Immersive Two-in-One

37 PAX Telepresence Board Rooms

Experience the next evolution of collaboration with **Ultra Immersive Telepresence Board Rooms**—where **physical meetings are carried out in classic way** and for virtual meetings you now get the option of **conventional way** or with **immersive telepresence experience** where **virtual meetings blend seamlessly** into one unified experience. Whether your team is seated around the table or joining remotely over video, everyone feels equally present, engaged, and connected.

Key Capabilities of **Ultra Immersive Telepresence Board Rooms**

- ▶ Experience life like Telepresence in your boardrooms that makes **virtual meetings feel truly in-room** along with high quality local meeting experience.
- ▶ Seamless hybrid collaboration with **crystal-clear video and natural eye-level communication** in both ways - Conventional as well as in Ultra immersive telepresence.
- ▶ **Ensures equal participation** – whether attendees are physically present or joining remotely.
- ▶ Empowers your **Conventional boardrooms** to **deliver a face-to-face feel** that eliminates the gap between physical and virtual meetings.
- ▶ **Perfect for large boardrooms** seeking high-quality, immersive meeting experiences too while leveraging existing investments .



Local Meetings like this ↗



Conventional Video Meetings like this ↗

You can
have your
Cake
and
eat it too!



Multi location Immersive Telepresence Video Meetings like this ↗



Two location Immersive Telepresence Video Meetings like this ↗

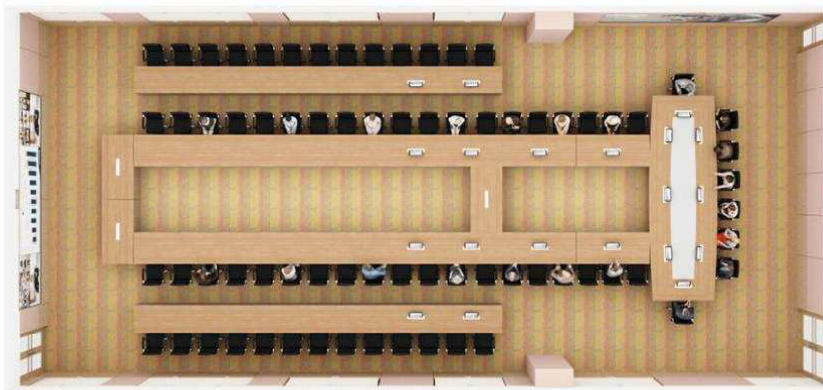
Flexible Board Room

Cum Seminar room

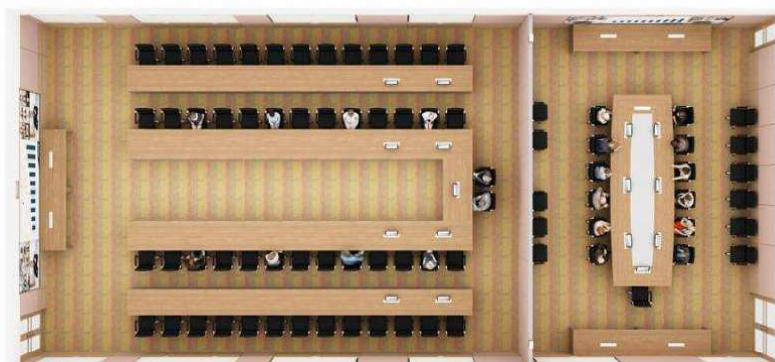
A Flexible Combined–Separate Boardroom, Seminar Room, and Training Room is a smart, multi-purpose space designed to adapt instantly to different business needs. With modular layouts, advanced AV integration, and seamless reconfiguration, the room easily transforms from a collaborative boardroom.

Key Capabilities of Flexible Board Room Cum Seminar room

- ▶ **Dual-Purpose Design:** Seamlessly transforms from a professional boardroom into a full-scale seminar room without changing infrastructure.
- ▶ **Advanced Audio-Visual Integration:** High-definition displays, intelligent cameras, and crystal-clear audio ensure impactful presentations and smooth hybrid interactions.
- ▶ **Quick Reconfiguration:** Modular furniture and smart controls allow fast transitions between meeting and seminar modes, saving time and effort.
- ▶ **Flexible Seating & Layouts:** Supports multiple configurations—U-shape, classroom, theatre, or boardroom—to suit meetings, presentations, or seminars.
- ▶ **Hybrid-Ready Collaboration:** Enables effortless connection with remote participants through video conferencing, screen sharing, and interactive collaboration tools.
- ▶ **Professional Experience:** Delivers a premium, distraction-free environment that enhances decision-making, engagement, and knowledge sharing.



Combined Boardroom / Seminar/ Training Room



Separate Boardroom & Separate Room



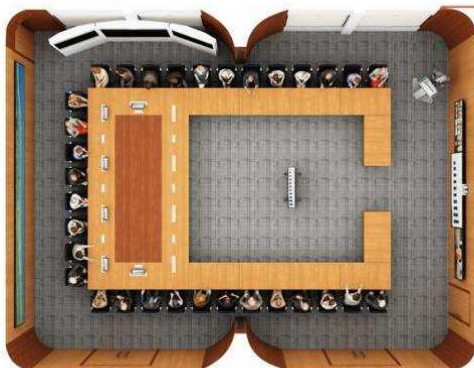
Enhanced Flexible Hybrid

Training / Seminar & Board Meeting Solution Broadcast Quality Trainer & Trainee Tracking System

A Flexible Combined–Separate Boardroom, Seminar Room, and Training Room is a smart, multi-purpose space designed to adapt instantly to different business needs. With modular layouts, advanced AV integration, and seamless reconfiguration, the room easily transforms from a collaborative boardroom.

Key Capabilities of **Enhanced Flexible Hybrid Training / Seminar & Board Meeting Solution**

- ▶ **Dual-Purpose Design:** Seamlessly transforms from a professional boardroom into a full-scale seminar room without changing infrastructure.
- ▶ **Advanced Audio-Visual Integration:** High-definition displays, intelligent cameras, and crystal-clear audio ensure impactful presentations and smooth hybrid interactions.
- ▶ **Quick Reconfiguration:** Modular furniture and smart controls allow fast transitions between meeting and seminar modes, saving time and effort.
- ▶ **Flexible Seating & Layouts:** Supports multiple configurations—U-shape, classroom, theatre, or boardroom—to suit meetings, presentations, or seminars.
- ▶ **Hybrid-Ready Collaboration:** Enables effortless connection with remote participants through video conferencing, screen sharing, and interactive collaboration tools.
- ▶ **Professional Experience:** Delivers a premium, distraction-free environment that enhances decision-making, engagement, and knowledge sharing.



Combined Boardroom / Seminar / Training Room



Separate Boardroom & Separate Room



Very Large Conference Rooms cum Seminar Room Solutions

Get highest Ultra Immersive experience in both local & video meetings, as this allows the senior team to interact with the local team and remote team in the most intimate manner on account of both local & remote teams maintaining a constant eye contact with the senior team.

Key Capabilities of **Very Large Conference Rooms cum Seminar Room Solutions**

- ▶ **Next-Generation Video Collaboration** – Enables seamless project and business reviews with multiple participants joining from different locations, redefining the way teams interact and collaborate.
- ▶ **Large Scale Boardroom grade Excellence** – Specially designed to deliver the highest-quality video meeting experience even in large boardrooms, without compromising clarity or engagement.
- ▶ **New Paradigm of Human Interaction** – Delivers an immersive, life-like meeting experience that goes beyond conventional video conferencing, making remote participants feel truly present.
- ▶ **Professional-Grade Audio & Video Quality** – Ensures crystal-clear visuals and communication for all participants, enabling confident decision-making during critical discussions.



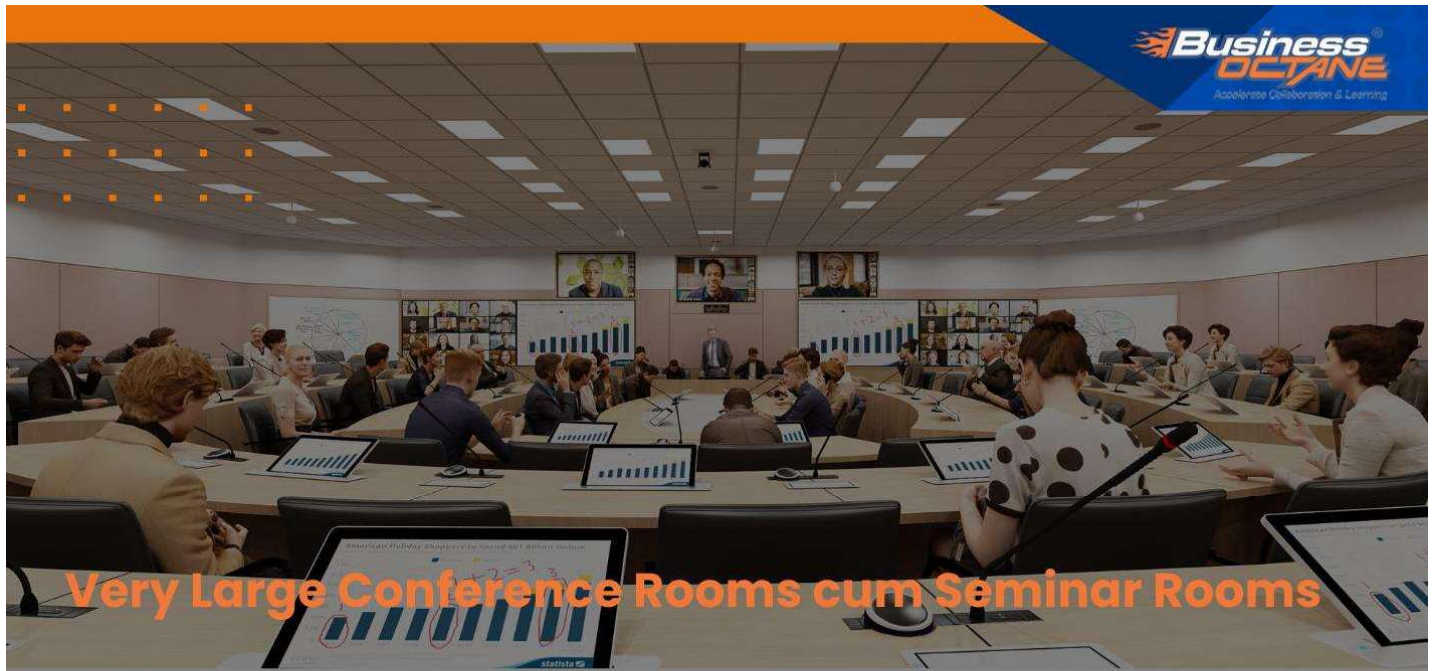
View of Senior Team



Remote life like Speaker



Top View

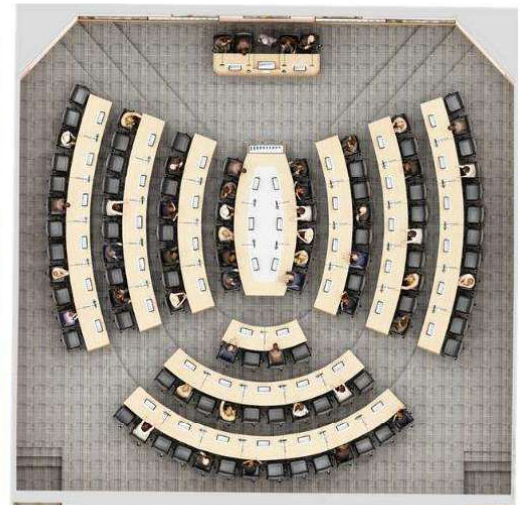


Very Large Conference Rooms cum Seminar Rooms

Get highest Ultra Immersive experience in both local & video meetings, as this allows the senior team to interact with the local team and remote team in the most intimate manner on account of both local & remote teams maintaining a constant eye contact with the senior team.

Key Capabilities of **Very Large Conference Rooms cum Seminar Room Solutions**

- ▶ **Next-Generation Video Collaboration** - Enables seamless project and business reviews with multiple participants joining from different locations, redefining the way teams interact and collaborate.
- ▶ **Large Scale Boardroom grade Excellence** - Specially designed to deliver the highest-quality video meeting experience even in large boardrooms, without compromising clarity or engagement.
- ▶ **New Paradigm of Human Interaction** - Delivers an immersive, life-like meeting experience that goes beyond conventional video conferencing, making remote participants feel truly present.
- ▶ **Professional-Grade Audio & Video Quality** - Ensures crystal-clear visuals and communication for all participants, enabling confident decision-making during critical discussions.

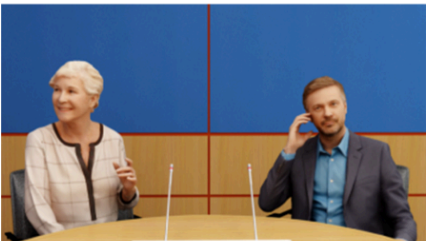


Two Dimensional / Three Dimensional Video Meeting Experience

Give your far site participants not only one dimensional but multiple dimensional experience for seeing all the participants of Seminar along with seeing the active speaker in Video Conferencing meetings !



Full Room View



Active Speaker View

Dual video streams- one for showing full room view & another one for showing active speaker view.



Dual View on the laptop of the far site VC

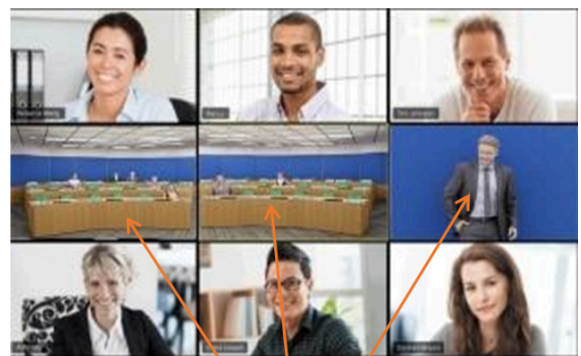
Dual dimensional experience



Left Half Room View



Right Half Room View



Triple View showing Left Half Room View, Right Half Room View and conference room view on the laptop of the remote participants without any audio disturbance

Triple dimensional experience for remote participants



Separate View of speaker at podium

Enhance your Poly/ Cisco/ Logitech Boardrooms

- Dull images to Far Site due to poor lighting
- Content not legible to all
- Eye Contact Misalignment
- Display too Small
- Cluttered table top and bottom
- Low intelligible Audio for Far participants

Before
BUSINESS
OCTANE



After
BUSINESS
OCTANE

- Lighting Improved
- Video for Far Site
- Content Monitors: Content legible to all
- Correct Placement of bar for better eye contact
- 2 Display for better visual
- Clutter Free Table after installation of ProCollab Station
- Better audio after improved acoustics

"From cluttered to cutting-edge"

Transforming ordinary meeting spaces into extraordinary collaboration
Training/Seminar/Townhall Rooms

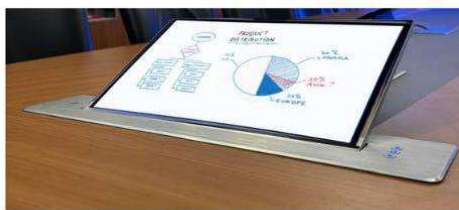
- ◆ Content readability to all participants as against partial readability



The **world's most powerful**, effective, and elegant on-table content monitors for empowering all participants to see crystal clear content with optional presentation annotation & whiteboard explanation!



Very Low Form Factor



Interactive Whiteboarding from Table



Annotation from Table

Key Capabilities of AltraTOUCHContent (Motorized)

- ▶ AltraTouch Content Monitor 15.6 is a **1080p** true **high definition touch monitor** that can be fitted in meeting & conference room tables, at reception desks, and training rooms.
- ▶ See the **content crystal Clear** in front of your desk - AltraTOUCH Content Monitor enables everyone to read the content crystal clear & see **every cell of the Excel sheet clearly**, irrespective of the size of the font used.
- ▶ **Easy to be retrofitted** - Easy to be retrofitted on existing conference tables.
- ▶ It has an **anti-glare coating** to remove the glare caused by overhead lights for improving the readability of the content.
- ▶ Get Non-Obtrusive Experience - A **150-degree Recline** and just **4" height** from the table gives you a completely non-obtrusive experience. Also, get the flexibility to adjust it with your own hands
- ▶ An Ideal solution to share content & presentations to multiple participants in **both local as well as video meetings.**
- ▶ Matching **CableCILLIN** cubbies add to **room aesthetics.**



Ready for

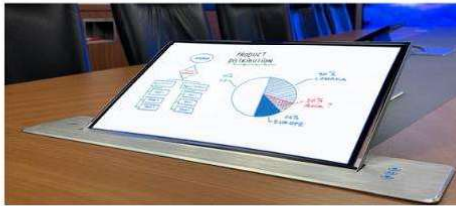




The **world's most powerful**, effective, and elegant on-table content monitors for empowering all participants to see crystal clear content with optional presentation annotation & whiteboard explanation!



Very Low Form Factor



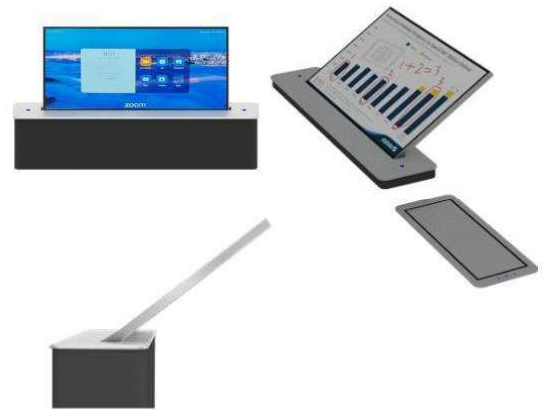
Interactive Whiteboarding from Table



Annotation from Table

Key Capabilities of **AltraTOUCHContent (Non-Motorized)**

- ▶ AltraTouch Content Monitor 15.6 is a **1080p true high definition touch monitor** that can be fitted in meeting & conference room tables, at reception desks, and training rooms.
- ▶ See the **content crystal Clear** in front of your desk - AltraTOUCH Content Monitor enables everyone to read the content crystal clear & see **every cell of the Excel sheet clearly**, irrespective of the size of the font used.
- ▶ **Easy to be retrofitted** - Easy to be retrofitted on existing conference tables.
- ▶ It has an **anti-glare coating** to remove the glare caused by overhead lights for improving the readability of the content.
- ▶ Get Non-Obtrusive Experience - A **150-degree Recline** and just **4" height** from the table gives you a completely non-obtrusive experience. Also, get the flexibility to adjust it with your own hands
- ▶ An Ideal solution to share content & presentations to multiple participants in **both local as well as video meetings**.
- ▶ Matching **CableCILLIN** cubbies add to **room aesthetics**.



Ready for





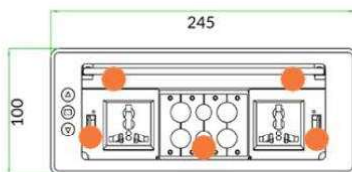
CableCILLIN® 403S

with MagikSWITCH

Now no more tripping cables in your conference rooms. Get clean clutter free tables along with magical ease of use for showing & switching presentations!

Key Capabilities of CableCILLIN® 403S with MagikSWITCH

- ▶ **Aesthetic slim design** complements your **conference rooms and boardroom** environment with just a **width of 100 mm**. It is designed to **provide maximum connectivity** in the **smallest footprint** and also ensures that there would be **no last minute search of power sockets & adaptors** for **international visitors** from any country.
- ▶ Get **Two universal power sockets** and **two USB power points** in **smallest footprint**. Further it removes the need for power adapters for international visitors with **built in, universal power sockets**.
- ▶ 6 pass through **grommets/holes** for routing all kinds of cables such as **HDMI, USB, Mini DP, DP Ethernet USB, VGA, VGA Audio, Laptop power supply etc** that makes sure all **relevant cables are available 24x7** and cannot be **taken out of the room**.
- ▶ **Save valuable time** for your teams by enabling them to **start collaborating** without any initial hiccups as now your **meeting rooms will be ready 24/7**.
- ▶ It has **unique capability** with the **glowing embedded contact closures**. CableCILLIN® with MagikSWITCH® includes **two or three buttons** with **inbuilt blue LED** that provide contact closures for **selecting and switching** between different **PC inputs with a supported HDMI Switcher and wireless presentation** sources if any or for selecting the display.
- ▶ **No need of cumbersome switching** of presentations by **removing cables**. Just keep all the **presenters connected** and switch by just pressing **MajikSwitches**.
- ▶ Same **Family look & feel content monitors** are available for **high Aesthetics**.



Model A1 403S



with three contact closure



Matching form Factor
with Content Monitors

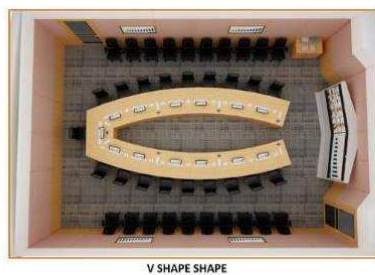
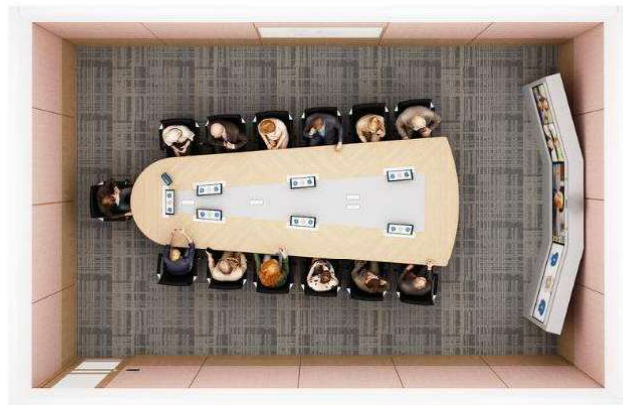
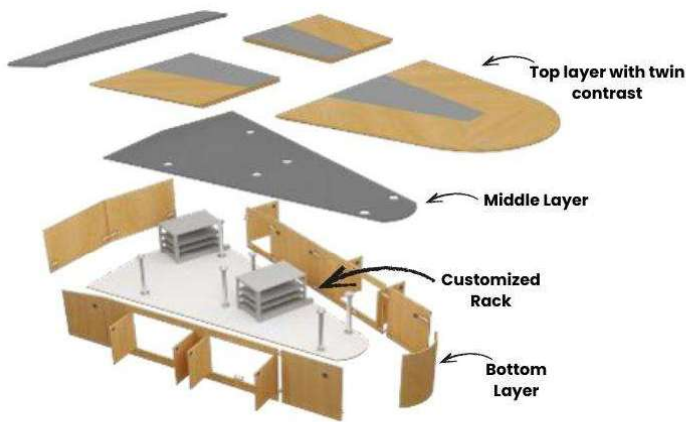


ProCollabStations Bespoke Video Tables

ProCollabStations remove cable clutter on top and under the table, enabling the mounting of multiple embedded motorized and non-motorized content monitors, motorized microphones, and cable management boxes in the most optimal manner, while providing housing for equipment racks, removing the need for multiple raceways in the floor.

Key Capabilities of ProCollabStations

- ▶ The technology-embedded **ProCollabSTATION** with a twin-contrast color scheme tabletop, with defined space for every piece of equipment, ensures your conference rooms still look wonderful without compromising functionality.
- ▶ Improved View of participants in Video Conferences to help you see the least of table and most of participants' view in all video meetings as against the reverse that generally happens
- ▶ Declutters the entire with all the electricals AV cables & raceways running inside.
- ▶ Built-in equipment racks in the **ProCollabSTATION** along with 12 db silent cooling fans gives an aesthetic look while saving your valuable real estate.
- ▶ Apart from improving eye contact, tapering design at the end of the table tops adds to the "WOW" factor and gives a feeling of a cockpit.





AltraLight enhances the overall visual collaboration experience in video meetings by both optimally improving subject and room lighting intensity and uniformity. This solution helps far-site participants see local participants with their faces fully lit and without any under-eye shadows, which has substantially reduced the effectiveness of your video teleconferences in the past.



Old Lighting Image



New Lighting Image



Special **600mm x 600mm x 150mm** fixture with **36 W LED** with a unique profile to throw light at **45 degrees**. Requires a minimum ceiling height of **2850mm**.

Key Capabilities of **AltraLight Telepresence**

- ▶ It provides studio-quality lighting to improve the effectiveness of video teleconferences, whether they are used in meeting rooms or large conference rooms.
- ▶ This helps far sight participants to see local participants without any under-eye shadows reducing the effectiveness of your video teleconferences substantially.
- ▶ Available for various meeting/conference room sizes, which dramatically improves the overall visual collaboration experience for all participants.



Pro Video

Managers for Flushed Displays, Cameras & Speakers

Multiple large displays and cameras, both embedded at optimal height, along with enclosed speakers and cables in ProVideoManagers, for highest level of eye contact to provide highly functional, clutter-free, and flexible Board Rooms with modern design and aesthetics too.



ProVideoManagers are made with a lightweight machined aluminium structure, which also houses/hides all Cameras, displays, speakers, and cables, providing for great aesthetic appeal. High-quality super-silent 12db cooling fans provide necessary ventilation for all the equipments housed in the equipment racks.

A wide range of our **Smart ProVideoManagers** for your **Video Meetings**





Chip On Board Active LED

(108/136/163")

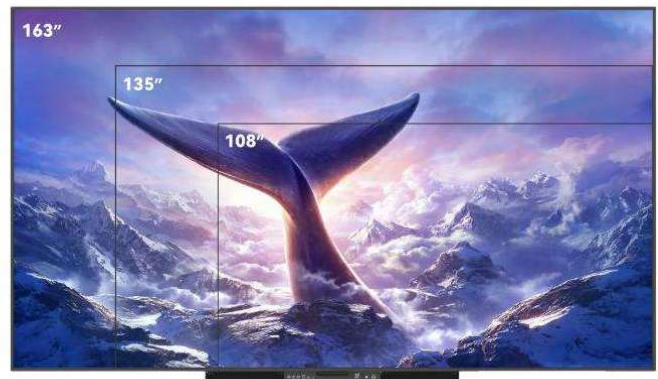
Experience the best micro LED displays like never before. Advanced Chip on Board technology, common cathode technology, and intelligent image processing to dramatically reduce blooming and deliver the most stunning and seamless visuals imaginable.

Key Capabilities of Active Micro LED (108 / 136 / 163)

- ▶ Enhanced Durability with superior resistance to impact, dust, and moisture for long-lasting performance.
- ▶ Higher Reliability featuring a significantly lower failure rate compared to traditional SMD technology.
- ▶ Ideal for Touch Interaction with a rugged surface perfectly suited for interactive and high-engagement applications.
- ▶ Stable Visual Performance delivering consistent clarity and robustness even in demanding environments.
- ▶ Effortless Maintenance thanks to a design that is easy to clean and service.

Technical Parameters for Active MicroLED

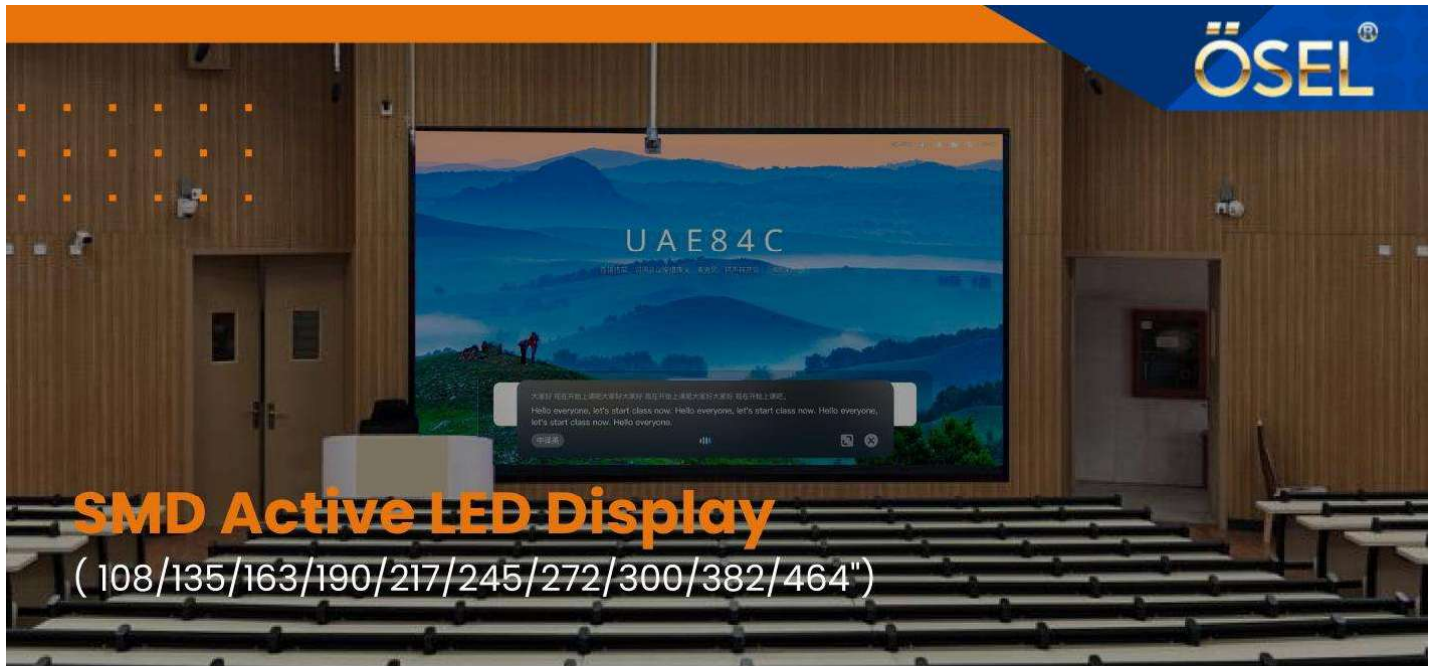
Pixel Pitch (mm)	1.2	1.5	1.8
Cabinet Size (W x H x D) mm	600 x 337.5 x 39		
Cabinet Weight (kg)	5.2		
Cabinet Resolution (L x W) pixels	480 x 270	384 x 216	320 x 180
Aspect Ratio	16:9		
Brightness (nits = cd/m ²)	≤800		
Refresh Rate (Hz)	≤3,840		
Color Temperature (K)	2,500 ~ 10,000		
Features	Common Cathode		
Power Consumption Max (W/m ²)	≤360	≤350	≤340
Power Consumption Typical (W/m ²)	≤125	≤117	≤110
Working Voltage	AC: 100 V~240V, 50~60 Hz		
Lifetime (Hours)	1,00,000		
Operating Temp (°C)	-20 ~ +60		
Humidity Range (%)	10 ~ 90		



Large Boardroom



Large Meeting Room



SMD Active LED Display

(108/135/163/190/217/245/272/300/382/464")

Ideal for 24/7 continuous operation environments, Ösel Primea is a breakthrough product boasting the best narrow pixel pitch LED display technology available in the industry today. With superior signal processing and a high refresh rate ensuring a smooth, seamless visual experience in a demanding control room, you can stay confident of never missing a single detail on the screen.

Key Capabilities of Surface-Mount Device LED

- ▶ Pixel-Perfect Visuals for stunning clarity and immersive viewing across all environments
- ▶ Fully Integrated Design ensuring a sleek, modern look with simplified installation.
- ▶ Bezel-Free Continuity that delivers a seamless, uninterrupted display canvas.
- ▶ Noise-Free Performance powered by efficient heat management for silent operation.
- ▶ Automatic Calibration for consistent brightness, colour accuracy, and a prolonged lifespan.

Technical Parameters for SMD ActiveLED

Item	P0.9	P1.1	P1.2	P1.5	P1.8	P2.5
Pixel Configuration	SMD					
Pitch(mm)	0.945	1.18	1.26	1.575	1.89	2.5
Module Resolution(WxH)	320x180	256x144	240x135	192x108	160x90	120x68
Module Size(mm)	302.6x170.1					
Module Weight(Kg)	0.65					
Module Composition(WxH)	2x2					
Cabinet Resolution	640x360	512x288	480x270	384x216	320x180	240x136
Cabinet Dimension (WxHxD, mm)	604.8x340.2x72.5					
Unit Area(m ²)	0.2058					
Cabinet Weight(Kg/m ²)	36					
Pixel Density(pixel/m ²)	1119789	718184	629882	403124	279947	158637
Surface Flatness (mm)	±0.5					
Brightness Calibration	Yes					
Color Calibration	Yes					
Brightness(nits) (after calibration)	600-800					
Color Temperature(K)	3000-10000 Adjustable					
Horizontal Viewing Angle(°)	160					
Vertical Viewing Angle(°)	140					
Deviation of LED Luminance Center (after calibration)	<3%					
Brightness Uniformity	±97%					
Chromaticity Uniformity (after correction)	±0.003C _x C _y within					
Contrast Ratio	7000:1					
Max Power Consumption(W/m ²)	650	650	620	600	600	600
Average Power Consumption(W/m ²)	217	217	208	200	200	200
Power Supply	AC100~240V(50-60Hz)					
Drive Mode	Constant Current Drive					
Frame Rate(Hz)	50/60					
Refresh Rate(Hz)	3000					
Lifetime(hrs)	100,000					
Operation Temperature (°C)	-10~40					
Storage Temperature(°C)	-20~60					
Operation Humidity(RH)	10~80% no condensation					
Storage Humidity(RH)	10~85% no condensation					



Special Features

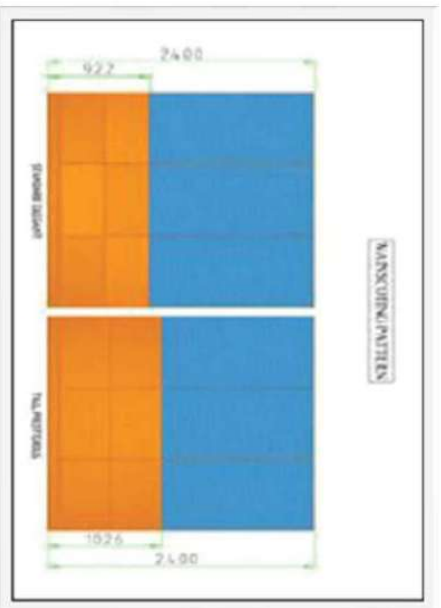
Special interior construction pack for upgrading your immersive visual collaboration experience



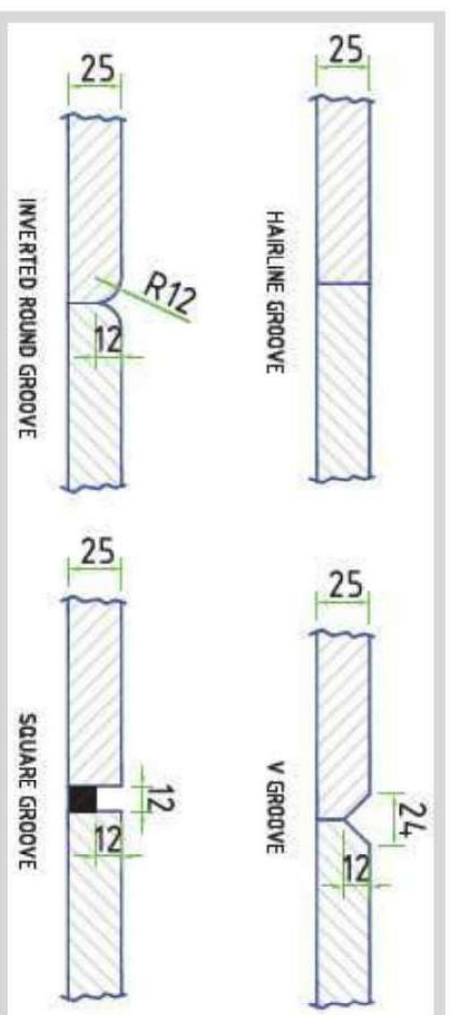
Special Features

How can you customize your conference room?

Customization in the wall panelling for room interiors

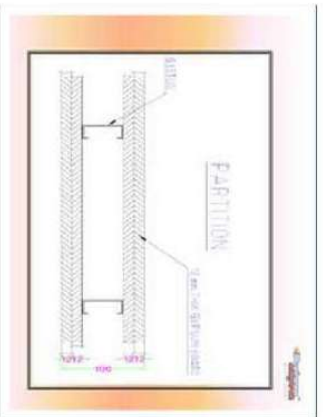


Wainscoting level can also be customized from 900mm to 1026mm.



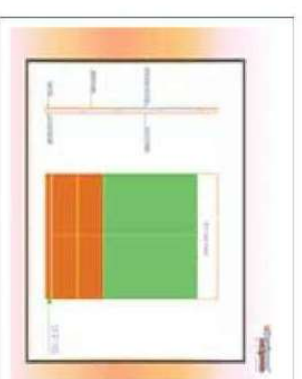
Appearance of grooves between acoustic panels can also be customized.

All Rights Reserved.

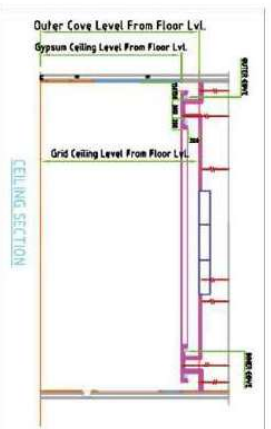


- a) 125mm thick partition
- b) Double layer of 12mm thick gypsum board on either side
- c) GI structure of floor channel, ceiling channel & GI stud
- d) 50mm thick glass wool fitted inside partition for high level of noise isolation
- e) Partition: Sound reduction coefficient Rw of partitions is 51dB

Typical partition construction



Typical wall elevation



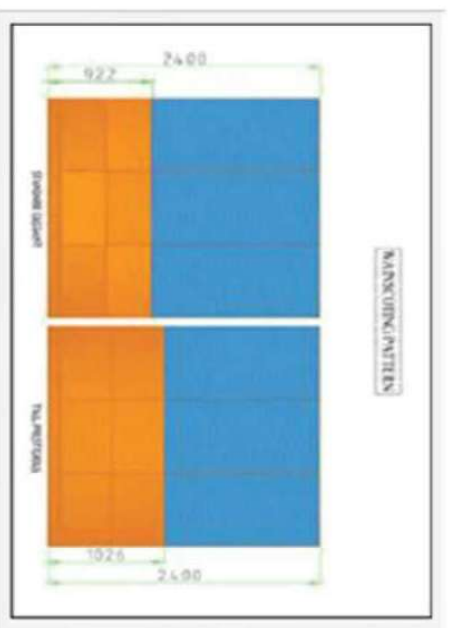
Two level ceiling with specially designed covers for indirect lighting in the room to help show well lit faces. The 2/2 grid compressed glass wool ceiling is excellent for room acoustics

Typical ceiling construction

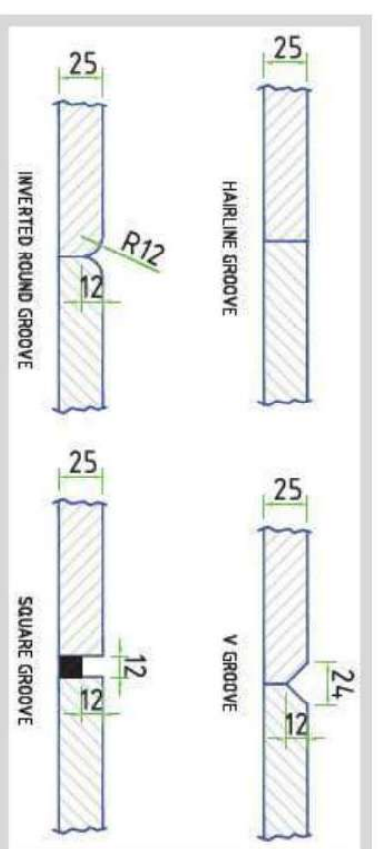
Special Features

How can you customize your conference room & training room?

Customization in the wall panelling for room interiors



Wainscoting level can also be customized from 900mm to 1026mm.



Appearance of grooves between acoustic panels can also be customized.

All Rights Reserved.

Interior Design & Quality Supervision Professional Services (IDQSPS)

Why compromise on the functionality & aesthetics of your meeting rooms, conference rooms & training rooms, which would reduce your organization's productivity?



Why not instead choose Business Octane's IDQSPS for all your new/to be renovated meeting & training spaces to get high productivity along with high aesthetics?



Professional Audio Conferencing Solutions for Boardrooms

ATND1061DAN

Beamforming Ceiling Array Microphone



Features

/ Powerful onboard DSP

Powerful onboard DSP automix, acoustic echo cancelation, noise reduction, automatic gain control, and 4-band EQ.

/ Digital Microphone Manager

User-friendly Digital Microphone Manager software easily configures single or multiple ATND1061 microphone settings.

Customisable

Six individual output channels with up to 32 user-defined microphone pickup zones provide the flexibility to cover a wide variety of room sizes and meeting types.

Output Channel 1 can be configured with up to 16 user-defined Coverage Zones to ensure coverage of nonpriority or unplanned participants.

Output Channels 2–6 can be configured with up to 16 user-defined Priority Zones to ensure priority pickup of participants in known locations.

Exclusion zones can be set in the software to avoid known sources of unwanted noise (such as air-handling systems).

VAD technology

Proprietary voice activity detection (VAD) technology enables the microphone to discern between a voice and unwanted noises such as paper shuffling.

Network and Dante™

Two network ports with Single Cable and Split modes to send Dante audio and microphone control data together or separately over category cable.

- Powered by network PoE.
- Mounting and accessories
- Mounts flush or on the surface of a drop ceiling or hard ceiling, or in open architecture spaces using VESA mount.
- Includes tile bridge, safety wiring, and mounting hardware and accessories.

Mounting and accessories

Mounts flush or on the surface of a drop ceiling or hard ceiling, or in open architecture spaces using VESA mount.

- Includes tile bridge, safety wiring, and mounting hardware and accessories.



Specification

General

Power Requirement	PoE (IEEE 802.3af Class 0)
Power Consumption	Max. 7 W
Operation Temperature Range	0 °C to 40 °C (32 °F to 104 °F)
Operation Humidity Range	25% to 85% (Non condensing)
Dimensions (W x D x H)	227.5 mm (9.0") x 227.5 mm (9.0") x 30 mm (1.2")
Weight	1250 g (44 oz)

Microphone

Beam Width	90°
Polar Pattern	Beam pattern
Frequency Response	60 Hz to 18,000 Hz
Sensitivity	-8 dBFS (1 kHz, 94 dB SPL)
Dynamic Range	89 dB (A-weighted)
Signal to Noise Ratio	61.5 dB (A-weighted)
Self-Noise	25 dB SPL (A-weighted)
Maximum Input Sound Level	102 dB SPL
Analog audio	
Frequency Response	20 Hz to 20 kHz (+1.0/-2.0 dB)
Dynamic Range	100 dB (A-weighted)
Signal to Noise Ratio	80 dB (A-weighted)
Headroom	20 dB
Residual Noise	-75.8 dBu (A-weighted)
T.H.D	<0.1% (1 kHz, unity)

Analog Input	MIC Maximum: -30 dBu MIC Unity: -50 dBu LINE Maximum: +12.2 dBu LINE Unity: -10 dBV, Switchable Analog Output
Analog Output	OUTPUT Maximum: +19.2 dBu OUTPUT Unity: +4 dBu/-10 dBV/-33 dBV, Switchable

Other

Network	Dante: 1 Gbps IP control: 100 Mbps
Digital Audio	Sampling rate: 48 kHz Bit depth: 24 bit
Latency	Microphone (CH1 to CH6): 47 msec Microphone (Auto Mix CH): 79 msec Dante: Min. 250 usec, Max. 5 msec
I/O Connector	Network/Dante: RJ-45 Analog input: Euroblock 3 pin Analog output: Euroblock 3 pin GPI: Euroblock 3 pin
Phantom Power	Analog input: 12 V

Included Accessories	<ul style="list-style-type: none"> • IR remote controller • Surface mount adapter • Screw (M4 x 50 mm) x 4 • Flush mount adapter • Flush mount cover • Screw (M4 x 10 mm) x 12 • Hole cover • Nut x 4 • Snap bushing x 2 • Tile bridge A x 2 • Tile bridge B x 2 • Tile bridge C x 4 • Seismic cable • Zip tie • Safety belt • Euroblock connector x 3 • Installation template
-----------------------------	---

For product improvement, the product is subject to modification without notice.

System 20 PRO

Digital Wireless System



Overview

The System 20 PRO offers a self-managing, plug-and-play 2.4 GHz system that is scalable to 20 channels and delivers the same dependable, high-quality audio in any environment.

The system has been designed to overcome many challenges of conventional wireless microphones, such as frequency coordination, complex intermodulation calculations, and remote antenna cabling.

Capable of receiving up to four transmitters, receiver units can remain docked in the half-rack chassis or be mounted remotely (up to 100m) via Ethernet cable. Up to five chassis can be linked via an RJ12 cable, creating a stable, multichannel system providing simultaneous use of up to 20 channels. System 20 PRO allows the user to choose between two modes: Standard mode (10 channels) to minimise latency or HD mode (20 channels) to maximise channel count.

Setup and management are controlled via Audio-Technica's Wireless Manager software, and AES128 encryption provides security and reliable operation. The transmitters included in each system are paired and ready to use out of the box, and offer all-day operation on a full charge.

Overall System Specifications

Specification	Details
Operating frequencies	2402 - 2480MHz
Dynamic range	120dB (A-weighted) typical
Total harmonic distortion	< 0.05% typical
Operating range	60m (Open environment with no interfering signals)
System Frequency Response	20 to 20000Hz (Varies depending on the microphone to be installed)
Delay	Standard: 2.8ms, HD mode: 6.7ms
Audio sampling frequency	Standard: 24bit/48kHz, HD mode: 24bit/48kHz
Encryption method	AES128
Max. simultaneous use	Standard: 10 channels, HD mode: 20 channels (Depends on the region and environment)

ATW-T1401

Specification	Details
Modulation mode	GFSK
RF output	10mW EIRP
RF sensitivity	-90dBm typical
Whip antenna	True diversity
Input connection	Four pin locking connector: Pin 1: GND, Pin 2: INST INPUT, Pin 3: MIC INPUT, Pin 4: DC BIAS +10V
Battery	DC3V (2 AA batteries)
Operating temperature	5°C to +40°C
Battery Life	AA alkaline batteries: Approx. 15 hours, AA nickel-hydrogen batteries: Approx. 14 hours and 30 minutes, AA lithium batteries: Approx. 29 hours (Varies depending on usage conditions)
Dimensions	63.7mm x 22.7mm x 107.4mm (W x D x H)
Weight	80g (without batteries)

System 20 PRO

Digital Wireless System



ATW-T1402

Specification	Details
Modulation mode	GFSK
RF output	10mW EIRP
RF sensitivity	-90dBm typical
Whip antenna	True diversity
Microphone type	Dynamic type
Microphone Directional Characteristics	Hypercardioid
Battery	DC3V (2 AA batteries)
Operating temperature	5°C to +40°C
Battery Life	AA alkaline batteries: Approx. 18 hours, AA nickel-hydrogen batteries: Approx. 16 hours and 30 minutes, AA lithium batteries: Approx. 35 hours (Varies depending on usage conditions)
Dimensions	265.0mm x 53.7mm
Weight	300g
Included accessory	Microphone holder AT8456a, Conversion screw adapter (3/8 - 5/8)

ATW-T1406

Specification	Details
Modulation mode	GFSK
RF output	10mW EIRP
RF sensitivity	-90dBm typical
Whip antenna	True diversity
Maximum input sound pressure level	139dB SPL
Microphone type	Capacitor type
Microphone Directional Characteristics	Cardioid
Operating temperature	5°C to +40°C
Built-in battery	3.7V lithium-ion battery (5.5Wh 1460mAh)
Battery Life	Approx. 12 hours (Varies depending on usage conditions)
Charging time	Approx. 3 hours and 10 minutes (Varies depending on usage conditions)
USB Charging Port	USB Type-C (USB 2.0)
Dimensions	90.5mm x 129.4mm x 31.9mm (W x D x H)
Weight	510g (including battery)
Included accessory	USB power adapter, Blade tip for USB power adapter, USB cable (1.5 m)

ATW-T1407

Specification	Details
Modulation mode	GFSK
RF output	10mW EIRP
RF sensitivity	-90dBm typical
Whip antenna	True diversity
Microphone	Gooseneck microphone support
Phantom power supply	DC24V
Operating temperature	5°C to +40°C
Built-in battery	3.7V lithium-ion battery (5.5Wh 1460mAh)
Battery Life	Without LED: Approx. 12 hours, With LED: Approx. 8 hours (Varies depending on usage conditions)
Charging time	Approx. 3 hours and 10 minutes (Varies depending on usage conditions)
USB Charging Port	USB Type-C (USB 2.0)
Dimensions	90.5mm x 129.4mm x 47.6mm (W x D x H)
Weight	490g (including battery)
Included accessory	USB power adapter, Blade tip for USB power adapter, USB cable (1.5 m)

ATW-R1440

ATW-RC14

Receiver unit external connection port	RJ45
NETWORK Port	RJ45: RJ45 Fast Ethernet
LINK IN/OUT port	RJ12
Output Level	LINE max: +22dBu (+20dBV), LINE Unity: -20dBu (-22dBV), MIC max: -12dBu (-10dBV), MIC Unity: -50dBu (-52dBV)
Power consumption	3.7W
Power supply	DC12V 0.5A (AC adapter)
Operating temperature	0°C to +40°C
Dimensions	209.8mm x 165.6mm x 42.5mm (W x D x H)
Weight	/40g
Included accessory	Blade tip for AC adapter and AC adapter, Rack mount adapter (short), Rack mount adapter (long), Fixing screws x 5, Connecting cable (30cm), Rubber feet x 4

ATW-RU14

Modulation mode	GFSK
RF output	10mW EIRP
RF sensitivity	-90dBm typical
Whip antenna	1/2 Dipole Antenna Diversity
External connection port	RJ45
Power supply	DC12V (RC14)
Operating temperature	0°C to +40°C
Dimensions	86.0mm x 70.2mm x 18.7mm (W x D x H)
Weight	77g

Engineered Sound® Wireless DECT Wireless System



Commercial Audio

Features

- Automatic DECT-based frequency management
- Up to 96 simultaneous usable channels
- Simple setup with Cat 5e cable and 8-channel Dante audio output
- Standard mode (48 channels) minimizes latency, and HD mode (96 channels) maximizes the number of channels
- Selectable RF power output to optimize coverage area
- Compatible with Audio-Technica's Wireless Manager software for centralized management of system settings and operations
- Presets allow transmitters to be customized for multiple applications
- Roaming function allows transmitters to connect to multiple receivers within preconfigured rooms/areas
- Long-lasting internal lithium-ion batteries for all-day transmitter use
- Sound quality optimized for intelligible, crystal-clear audio
- Adjustable high-pass, transmitter gain, and volume for each receiver channel
- AES256 encryption for superior security
- Compatible with Syslog protocol
- Ability to configure, monitor, and save device settings as projects in Wireless Manager software
- DECT RF scan identifies number of available DECT wireless channels via A-T's Wireless Manager software

Description

Audio-Technica's Engineered Sound Wireless System is a DECT wireless system that offers simple, smart, and scalable high-quality audio. This versatile system eliminates frequency coordination, which is a limitation of conventional wireless systems, allowing for use of numerous microphones (transmitters) with no license applications. The simplified wiring eliminates the hassle of installing multiple antennas. The system can be configured in Standard Mode (up to 48 channels), to minimize latency, or HD mode (up to 96 channels), to maximize the number of channels. Seamless setup and management are controlled via Audio-Technica's Wireless Manager software, which is capable of managing multiple wireless systems from a single screen. In addition, AES256 encryption comes standard, providing superior security and reliable operation. Once the system is set up, transmitters will be ready to use simply by removing them from the charging station, with a full charge supplying all-day operation.

The ESW-R4180DAN receiver supplies 8-channel Dante audio output via a simple LAN connection (Cat 5e or higher) to a PoE network switch. Dual network ports also allow separate Dante and IP control. The receiver supports mixed output to accommodate setups with limited input channels, and offers high-pass filtering and audio level control for each channel. Any combination of up to 8 handheld, body-pack, desk stand, or boundary transmitters can be used simultaneously with each ESW-R4180DAN receiver. Up to 12 receivers can be used providing a maximum count of 96 simultaneous channels (when utilizing HD mode). The receiver's low-profile white housing blends in with interior décor and features status and link indicator lamps.

The ESW-T4106 boundary microphone transmitter features selectable omnidirectional and cardioid polar patterns. Its touch-sensitive talk switch can be set to three different operation modes (toggle mute on/off, touch-to-talk, touch-to-mute). The mute status is indicated by two LED lamps (one on the rear of the unit, one outlining the switch), which can be set to display seven different colors or be turned off. The transmitter is equipped with a user-replaceable lithium-ion (LI-220) battery, and can be charged via a USB-C connection (to allow continual use) or in the ESW-CHG5 charging station.

The ESW-T4107 desk stand transmitter is compatible with ES925 Series gooseneck microphones, allowing for a wide selection of gooseneck lengths (4.85", 9.08", 12.08", 15.08", 18.08", 21.08") and microphone polar patterns (MicroLine®, hypercardioid, cardioid, omnidirectional). Like the boundary transmitter, it features a touch-sensitive talk switch that can be set to three different operation modes (toggle mute on/off, touch-to-talk, touch-to-mute). LED lamps around the switch and on the rear of the unit (which can be set to 7 different colors or be turned off) display the mute status. The transmitter is equipped with a user-replaceable lithium-ion (LI-220) battery, and can be charged via a USB-C connection (to allow continual use) or in the ESW-CHG5 charging station.

The ESW-T4101 body-pack transmitter features a built-in, high-quality microphone and an on/off/mute push-button control. It is equipped with a cH-style screw-down 4-pin input connector to provide secure connection to cH-style lavalier and headworn mics. (The transmitter supplies 5V DC bias to power condenser microphones.) The transmitter includes a built-in antenna, user-replaceable lithium-ion (LI-220) battery, charging terminals (for use with the ESW-CHG4 charging station) and belt clip, plus a removable neck strap.

The ESW-T4102/C510 handheld transmitter comes with the ATW-C510 cardioid dynamic capsule, which features a multistage grille design for excellent protection against plosives and sibilance without compromising high-frequency clarity. The capsule is interchangeable with all Audio-Technica wireless microphone capsules and a wide array of other compatible capsules. The robust metal transmitter is equipped with a power button, slide-to-mute switch, a user-replaceable lithium-ion (LI-320) battery and charging terminals (for use with the ESW-CHG4 charging station). The AT8456a Quiet-Flex™ stand clamp and a 5/8"-27 male to 3/8"-16 female threaded screw adapter are included as accessories.

The ESW-CHG4 two-bay charging station rapidly recharges both the system's body-pack and handheld transmitters (approx. 2 hours for ESW-T4101; approx. 3 hours for ESW-T4102). Up to four charging stations can be linked and powered by a single power supply. Charging status can be monitored via the station's indicator lamps as well as in the Wireless Manager software. Firmware for all docked transmitters can be updated remotely. Two detachable microphone hangers are included to provide a convenient place to wrap a lavalier mic cable that is attached to a charging body-pack transmitter.

The ESW-CHG5 four-bay charging station rapidly recharges (in as little as two hours) the system's desk stand and boundary transmitters. Up to two charging stations can be linked and powered by a single power supply. As with the ESW-CHG4, the charging status can be monitored via the station's indicator lamps and in the Wireless Manager software, and firmware for all docked transmitters can be updated remotely.

Architect's and Engineer's Specifications

The DECT wireless microphone system shall consist of a receiver and appropriate transmitters (boundary, desk stand, body-pack, handheld) and shall operate in the UHF band of 1,920–1,930 MHz. It shall incorporate AES256 encryption technology. Setup and management of the system shall be controlled via specially designed manager software.

Engineered Sound® Wireless

The DECT wireless 8-channel receiver shall be equipped with a status indicator LED lamp (to show when the device is on and provide other alerts) and a link indicator LED lamp (to show transmitter link status). It shall support mixed output to accommodate setups with limited input channels, and offer high-pass filtering and audio level control for each channel. The receiver shall be capable of using up to 8 of the system's handheld, body-pack, desk stand, or boundary transmitters (in any combination) simultaneously. Up to 12 receivers shall be usable together, providing a maximum count of 96 simultaneous channels. The receiver shall have A/B network ports for the Dante standard that accept LAN cables (Cat 5e or higher, shielded cables with conductor size of 24AWG or greater in diameter). The receiver shall turn on when the network port A is connected to a PoE-compatible switching hub. Network port A shall send Dante and IP control data in single cable mode together. The receiver shall also include a reset button that can be used to check the network mode, reset the network, and perform a factory reset. The wireless receiver and the supplied wall/ceiling mounting bracket shall be white.

The DECT wireless boundary microphone transmitter shall be switchable between omnidirectional and cardioid polar patterns (each with a frequency response of 20–18,000 Hz). The transmitter shall be equipped with a touch-sensitive talk switch that can be set to three different operation modes (toggle mute on/off, touch-to-talk, touch-to-mute). The transmitter shall be configurable to turn on in a muted or unmuted state. Two LED lamps – one on the rear of the unit, one outlining the talk switch – shall display power and mute status. There shall be seven selectable colors for the lamps, plus an off setting. A power button on the base of the unit shall turn the transmitter on and off. Charging terminals on the base of the transmitter shall work with an optional smart charging dock to recharge the user-replaceable lithium-ion battery (LI-220) installed in the transmitter. The battery cover shall be locked with screws. The transmitter shall also include a USB-C port to allow charging while the unit is in use.

The DECT wireless desk stand transmitter shall be compatible with a wide selection of fixed-charged gooseneck microphones (available lengths: 4.85", 9.08", 12.08", 15.08", 18.08", 21.08"; available polar pattern acceptance angles: 90°, 100°, 120°, 360°). Like the boundary transmitter, the desk stand transmitter shall be equipped with a touch-sensitive talk switch that can be set to three different operation modes (toggle mute on/off, touch-to-talk, touch-to-mute). The transmitter shall be configurable to turn on in a muted or unmuted state. Two LED lamps—one on the rear of the unit, one outlining the talk switch—shall display power and mute status. There shall be seven selectable colors for the lamps, plus an off setting. A power button on the base of the unit shall turn the transmitter on and off. Charging terminals on the base of the transmitter shall work with an optional smart charging dock to recharge the user-replaceable lithium-ion battery (LI-220) installed in the transmitter. The battery cover shall be locked with screws. The transmitter shall also include a USB-C port to allow charging while the unit is in use.

The DECT wireless body-pack transmitter shall have a microphone level input with a screw-down 4-pin connector. It shall provide DC voltage to power microphones requiring DC bias. The transmitter shall also be equipped with a built-in microphone with a frequency response of 20–20,000 Hz and a built-in antenna. The body-pack transmitter shall have a reversible clip allowing for up or down cable entry. A detachable neck strap shall also be included. A push button on the front of the unit shall turn the transmitter on and off and control mute/unmute functionality. A status indicator LED lamp shall display power and other status indications. Charging terminals on the back of the transmitter shall work with an optional smart charging dock to recharge the user-replaceable lithium-ion battery (LI-220) installed in the transmitter. The battery and battery cover shall be locked with screws.

The DECT wireless handheld transmitter shall come with a dynamic cardioid microphone capsule, which shall screw onto the transmitter's industry-standard thread mount. The capsule shall incorporate internal shock mounting and have a two-stage integral pop filter. The transmitter shall also work with additional capsules specifically designed for the transmitter (available separately) as well as other compatible capsules. The transmitter shall have a metal housing with a plastic antenna end cap. The transmitter shall be equipped with a power button and a mute on/off switch. A status indicator LED lamp shall display power and other status indications. Charging terminals on the base of the transmitter shall work with an optional smart charging dock to recharge the user-replaceable lithium-ion battery (LI-320) installed in the transmitter. The transmitter shall be supplied with a heavy-duty stand clamp.

A two-bay charging station shall be available to rapidly recharge (in as little as two hours) the lithium-ion batteries in the system's body-pack and handheld transmitters. It shall be possible to link up to four charging stations and power them with a single power supply. Indicator lamps shall display charging status, which shall also be monitorable via the system's manager software. Remote firmware updates shall be enabled for transmitters docked in the charging station. Each of the station's bays shall have accompanying mounting holes for a detachable microphone hanger that can be used to wrap a lavalier mic cable and leave it attached to a charging body-pack transmitter. Two microphone hangers shall be included with the charging station. The station shall also come with a link cable, link plate and link plate screws.

A four-bay charging station shall be available to rapidly recharge (in as little as two hours) the lithium-ion batteries in the system's desk stand and boundary transmitters. It shall be possible to link two charging stations and power them with a single power supply. Indicator lamps shall display charging status, which shall also be monitorable via the system's manager software. Remote firmware updates shall be enabled for transmitters docked in the charging station. The station shall also come with a link cable, link plate and link plate screws.

The Audio-Technica Engineered Sound® Wireless DECT wireless system is specified.

Specifications	Overall system
Operating frequencies	DECT Mode 01 (US, Canada): 1,920 to 1,930 MHz; RF power limit 100 mW DECT Mode 02 (South America): 1,910 to 1,930 MHz; RF power limit 250 mW DECT Mode 25 (Brazil): 1,912 to 1,920 MHz; RF power limit 250 mW DECT Mode 28 (Chile): 1,920 to 1,930 MHz; RF power limit 100 mW DECT Mode 29 (Uruguay): 1,910 to 1,920 MHz; RF power limit 100 mW <i>This product is set to the DECT Mode matching the laws and regulations of the country where it will be used.</i>
Dynamic range	> 105 dB (A-weighted), typical
Total harmonic distortion	< 1.0%
Operating range	Max. 100 m (328.1'; with RF Power set to Mid) <i>Open range environment with no interfering signals.</i>
System frequency response	Standard: 20 to 20,000 Hz HD mode: 20 to 20,000 Hz <i>Depending on microphone element to attach.</i>
Receiving system	True diversity
Latency	Standard: 16.7 ms typical HD mode: 24.0 ms typical
Audio sampling rate	Standard: 24 bits, 48 kHz HD mode: 24 bits, 48 kHz
Encryption system	AES256
RF output power	Max: 250 mW, High: 100 mW, Mid: 30 mW, Low: 10 mW, Min: 2 mW (switchable) <i>Exercise caution regarding the transmitting power to meet local regulations.</i>
Maximum simultaneous use	Standard: 48 channels* HD mode: 96 channels* In DECT Mode 01/28/29. <i>*Depending on the region and environment.</i>

Engineered Sound® Wireless



Specifications (continued)

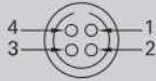
ESW-R4180DAN 8-channel receiver

Modulation mode	A-field: $\pi/2$ -BPSK B-field: $\pi/8$ -BPSK
RF sensitivity	< -90 dBm
Network	Dante: 1 Gbps IP control: 100 Mbps
I/O connector	Network/Dante: RJ-45
Power consumption	4.8 W
Power supply	PoE (IEEE 802.3af Class 0)
Operating temperature range	-10°C to +50°C (14°F to 122°F)
Dimensions	228.6 mm (9.0") × 228.6 mm (9.0") × 43.5 mm (1.7") (W × D × H)
Weight	620 g (22 oz), without accessories
Included accessory	Bracket



ESW-T4101 body-pack transmitter

Frequency response	20 to 20,000 Hz (internal microphone)
Modulation mode	A-field: $\pi/2$ -BPSK B-field: $\pi/4$ -QPSK
Input connection	Four-pin locking connector Pin 1: GND Pin 2: MIC DETECTION Pin 3: MIC INPUT Pin 4: DC BIAS +5 V
Battery	Lithium-ion battery LI-220 (included)
Operating temperature range	-5°C to +45°C (23°F to 113°F)
Battery life	25 hours <i>This varies depending on usage conditions.</i>
Dimensions	56 mm (2.2") × 23.5 mm (0.93") × 90 mm (3.5") (W × D × H)
Weight	112.3 g (4.0 oz), with battery
Included accessory	Neck strap



ESW-T4102 handheld transmitter

Modulation mode	A-field: $\pi/2$ -BPSK B-field: $\pi/4$ -QPSK
Microphone capsule	Interchangeable microphone capsule-compatible
Battery	Lithium-ion battery LI-320 (included)
Operating temperature range	-5°C to +45°C (23°F to 113°F)
Battery life	35 hours <i>This varies depending on usage conditions.</i>
Dimensions	ESW-T4102 (without capsule): 188.5 mm (7.4") × 37 mm (1.5") in diameter ESW-T4102/C510: 259.5 mm (10") × 53.7 mm (2.1") in diameter
Weight (with battery)	ESW-T4102 (without capsule): 205 g (7.2 oz) ESW-T4102/C510: 334 g (12 oz)
Included accessories	AT8456a Quiet-Flex™ stand clamp, 5/8"-27 male to 3/8"-16 female threaded screw adapter



ESW-T4106 boundary microphone transmitter

Frequency response	Omnidirectional: 20 to 18,000 Hz Cardioid: 20 to 18,000 Hz
Modulation mode	A-field: $\pi/2$ -BPSK B-field: $\pi/4$ -QPSK
Microphone polar pattern	Cardioid, omnidirectional (selectable)
Battery	Lithium-ion battery LI-220 (included)
Charging time (USB)	Approx. 2 hours 40 minutes <i>This varies depending on usage conditions.</i>
Operating temperature range	-5°C to +45°C (23°F to 113°F)
Battery life	22 hours <i>This varies depending on usage conditions.</i>
USB charging connector	USB Type-C (USB 3.0)
Dimensions	90.5 mm (3.6") × 129.4 mm (5.1") × 31.9 mm (1.3") (W × D × H)
Weight	500 g (18 oz), with battery



ESW-T4107 desk stand transmitter

Modulation mode	A-field: $\pi/2$ -BPSK B-field: $\pi/4$ -QPSK
Microphone	ES Series modular gooseneck microphone-compatible
Battery	Lithium-ion battery LI-220 (included)
Charging time (USB)	Approx. 2 hours 40 minutes <i>This varies depending on usage conditions.</i>
Operating temperature range	-5°C to +45°C (23°F to 113°F)
Battery life	17 hours <i>This varies depending on usage conditions.</i>
USB charging connector	USB Type-C (USB 3.0)
Dimensions	90.5 mm (3.6") × 129.4 mm (5.1") × 47.4 mm (1.9") (W × D × H)
Weight	535 g (19 oz), with battery

Engineered Sound® Wireless



Specifications (continued)

ESW-CHG4 two-bay body-pack and handheld charging station

Power supply	12 V DC, 3.0 A
Charging output	When charging one to four transmitters: 4.2 V DC, 1.5 A When charging five or six transmitters: 4.2 V DC, 1.1 A When charging seven or eight transmitters: 4.2 V DC, 0.7 A
Power consumption	When charging two transmitters: 15.6 W When charging eight transmitters in four linked charging stations: 30.6 W
Charging time (ESW-T4101)	When charging one to four transmitters: Approx. 50 minutes (50% charged), approx. 2 hours (100% charged) When charging five or six transmitters: Approx. 1 hour 10 minutes (50% charged), approx. 2 hours 50 minutes (100% charged) When charging seven or eight transmitters: Approx. 1 hour 40 minutes (50% charged), approx. 3 hours 40 minutes (100% charged) <i>This varies depending on usage conditions.</i>
Charging time (ESW-T4102)	When charging one to four transmitters: Approx. 1 hour 20 minutes (50% charged), approx. 3 hours (100% charged) When charging five or six transmitters: Approx. 1 hour 40 minutes (50% charged), approx. 4 hours 10 minutes (100% charged) When charging seven or eight transmitters: Approx. 2 hour 20 minutes (50% charged), approx. 5 hours 20 minutes (100% charged) <i>This varies depending on usage conditions.</i>
Network	IP control: 100 Mbps
Operating temperature range	0°C to 40°C (32°F to 104°F)
Dimensions	95 mm (3.7") × 180 mm (7.1") × 78.5 mm (3.1") (W × D × H)
Weight	532 g (19 oz)
Included accessories	Link cable, Link plate, Link plate screws, Mic holder
Sold separately	AC adapter (AD-SA1230XA), AC cord



ESW-CHG5 four-bay desk stand and boundary charging station

Power supply	12 V DC, 3.0 A
Charging output	When charging one to four transmitters: 4.2 V DC, 1.5 A When charging five or six transmitters: 4.2 V DC, 1.1 A When charging seven or eight transmitters: 4.2 V DC, 0.7 A
Power consumption	When charging four transmitters: 30.6 W
Charging time (ESW-T4106/ESW-T4107)	When charging one to four transmitters: Approx. 50 minutes (50% charged), approx. 2 hours (100% charged) When charging five or six transmitters: Approx. 1 hour 10 minutes (50% charged), approx. 2 hours 50 minutes (100% charged) When charging seven or eight transmitters: Approx. 1 hour 40 minutes (50% charged), approx. 3 hours 40 minutes (100% charged) <i>This varies depending on usage conditions.</i>
Network	IP control: 100 Mbps
Operating temperature range	0°C to 40°C (32°F to 104°F)
Dimensions	209.9 mm (8.3") × 303.9 mm (12") × 65.4 mm (2.6") (W × D × H)
Weight	866 g (31 oz)
Included accessories	Link cable, Link plate, Link plate screws
Sold separately	AC adapter (AD-SA1230XA), AC cord



LI-220 lithium-ion battery

Type	Lithium ion
Output voltage	3.6 V DC
Capacitance	2,200 mAh
Dimensions	39.7 mm (1.6") × 56.7 mm (2.2") × 13.5 mm (0.53") (W × D × H)
Weight	49 g (1.7 oz)



LI-320 lithium-ion battery

Type	Lithium ion
Output voltage	3.6 V DC
Capacitance	3,200 mAh
Dimensions	21.4 mm (0.84") × 74.8 mm (2.9") × 20.9 mm (0.82") (W × D × H)
Weight	56 g (2.0 oz)

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request. Specifications are subject to change without notice.



audio-technica

Audio-Technica Corporation
audio-technica.com
©2023 Audio-Technica

0000-6431-01



ATND8677a Microphone Desk Stand with Dante™ Network Output



Network Microphones

Features

- Connects directly to network via Ethernet cable—no soldering or additional cable required
- Integrated user switch controls talk/mute in Local mode and triggers Dante-enabled devices in Remote mode
- Local or remote control of gain, low-cut UniSteep® filter, red/green LED status indicator and phantom power
- Powered by network PoE
- Scalable across Dante's 512 bidirectional audio channels
- Touch-sensitive capacitive-type user switch
- UniSteep® filter provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality
- 3-pin XLR-type input for quick mounting of any gooseneck microphone with an XLRM-type output
- Heavy die-cast case and non-slip silicone foam bottom pads minimize coupling of surface vibration to the microphone

Description

The ATND8677a is a Dante-enabled microphone desk stand for use with any gooseneck microphone with a three-pin XLRM-type output connector. The desk stand is designed for surface-mount applications such as high-quality sound reinforcement, conferencing, distance learning and other demanding sound pickup applications.

The desk stand features a touch-sensitive capacitive-type user switch with integral red/green LED status indicator. In Local mode the user switch mutes and unmutes the microphone. It can be set to toggle between live and muted audio (toggle on/off), to permit live audio only while the switch is pressed (press to talk), or to mute the audio while the switch is pressed (press to mute). In Remote mode the user switch can be used to trigger functions on compatible Dante-enabled devices, such as a video camera's pan/tilt or a room's lighting preset. While in Remote mode the desk stand's audio output is controlled remotely. An integral 80 Hz low-cut UniSteep® filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations. A three-position input gain level selector permits trim adjustment to accommodate louder and softer voices. The desk stand provides 12V DC phantom power by default, which can be switched off and on.

The gain, low-cut UniSteep® filter, red/green LED status indicator and phantom power can all be controlled locally or remotely via third-party software.* Recessed buttons on the bottom of the desk stand allow user to configure the desk stand settings locally. Audio, low-cut, gain and phantom power settings can be locked in Local mode by pressing and holding the lock button. This lock will prevent end users from adjusting the settings. Default settings for the stand are as follows: audio toggle on/off (with audio muted at power up), low-cut filter off, +30 dB input gain, phantom power on.

The audio output of the ATND8677a can be routed using Audinate's Dante Controller, which is available for download at the Audinate website (www.audinate.com). The site also provides Dante routing and software instructions.

The desk stand's heavy die-cast case and non-slip silicone foam bottom pads minimize coupling of surface vibration to the microphone. The stand features a low-reflectance black finish.

Installation and Operation

The ATND8677a is powered by network PoE.

The electronics in the desk stand take up to 30 seconds to stabilize after power is applied.

The desk stand features a touch-sensitive user switch with integral red/green LED status indicator. In Local mode, which is the default, the user switch mutes and unmutes the audio. The Local mode settings for the user switch—as well as the low-cut UniSteep® filter, input gain level and phantom power—can be adjusted by pressing the appropriate recessed button on the bottom of the desk stand.

The user switch has four Local settings (see User Switch Settings and Functions in Local Mode below) that can be chosen by pressing the button beneath "SWITCH FUNCTION" and "DEFAULT MODE." The default setting is TOGGLE ON/OFF (with audio muted at power up). Press the button once to change setting to TOGGLE ON/OFF (with audio on at power up). In both settings the user switch will toggle between mute and unmute—the only difference is the status of the audio when the desk stand is turned on. Press the setting button a second time to select MOM. ON (momentary on), wherein the audio will be on only while the user switch is being pressed (press to talk). Press the setting button a third time to select MOM. OFF (momentary off), wherein the audio will be muted while the user switch is being pressed (press to mute). Press the setting button a fourth time to cycle the setting back to the default. The "SWITCH FUNCTION" and "DEFAULT MODE" LEDs will illuminate red or green to indicate the current setting.

Turn the low-cut UniSteep® filter on and off by pressing the button beneath "LOW CUT" on the bottom of the desk stand. The filter is off by default. The LED above "LOW CUT" illuminates red when the filter is off, green when it is on.

There are three input gain levels that can be selected: +30 dB (for loudest voices), +40 dB and +50 dB (for softest voices). To adjust the gain level, press the button beneath "GAIN" on the bottom of the desk stand. Pressing the button once changes the level from +30 dB to +40 dB, pressing it again changes the level to +50 dB and pressing a third time returns the level to +30 dB. The LED above "GAIN" illuminates green for +30 dB, orange for +40 dB and red for +50 dB.

By default, the desk stand supplies 12 V DC of phantom power, which is required by most gooseneck microphones. Phantom power can be turned off by pressing the button beneath "PHANTOM" on the bottom of the desk stand. The LED above "PHANTOM" illuminates green when power is on and red when it is off.

To lock the Local settings, press and hold the button beneath "LOCK" on the bottom of the desk stand. Press and hold again to unlock settings. The LED above "LOCK" will illuminate red when locked and remain unlit when not locked. If a setting button is pressed while the lock is on, the LOCK LED will blink.

All LEDs on the bottom of the desk stand will turn off seven seconds after the last button is pressed. Pressing any button will cause the LEDs to relight.

To return the desk stand to its default Local settings, press the GAIN and LOW CUT buttons simultaneously.

ATND8677a

The desk stand can also be controlled remotely via third-party software.* When this software is used it will override local control, causing the audio to remain on and the red/green LED status indicator, low-cut filter, input gain level and phantom power to be controlled remotely. In Remote mode the desk stand's user switch can be programmed to trigger functions on compatible Dante-enabled devices. When in remote mode the Remote LED is illuminated.

Avoid leaving the desk stand in the open sun or in areas where temperatures exceed 110° F (43° C) for extended periods. Extremely high humidity should also be avoided.

Note: Placing any object on a surface (such as a conference table) before its finish is fully cured may result in damage to the finish.

Architect's and Engineer's Specifications

The ATND8677a microphone desk stand shall be designed to work with any dynamic gooseneck or phantom-powered condenser gooseneck microphone with an integral 3-pin XLRM-type output connector. The unit shall offer a 3-pin XLRF-type input connector and an RJ45 type output connection using standard network protocol. It shall have a frequency response of 20 Hz to 20,000 Hz. An 80 Hz "low cut" switch shall be provided to tailor the low-frequency response to minimize pickup of unwanted sounds; it shall be selectable both locally and remotely via third-party software.* There shall be three gain levels: +30 dB, +40 dB, and +50 dB, selectable both locally and remotely via third-party software.* The desk stand shall have an input impedance of 1.4 kΩ. It shall be capable of supplying 12V DC of phantom power, selectable both locally and remotely via third-party software.* In the Local mode, the device shall function as a standard, switch-controlled microphone desk stand with muling taking place at the stand. In the Remote mode, the stand shall become disengaged from the switching circuit, allowing the switch to control external functions over the network.

The desk stand shall have a maximum width of 93.8 mm (3.69"), a maximum length of 133.0 mm (5.24") and a maximum height of 46.2 mm (1.82"). Weight shall be 770 g (27.2 oz). The finish shall be low-reflectance black.

The desk stand shall be capable of driving a Dante audio flow.

The desk stand shall accept IEEE802.3af standard PoE as power input. The stand shall consume less than 1.5W.

The desk stand shall be compliant with FCC Part15, CE and RoHS requirements.

The Audio-Technica ATND8677a is specified.

*For a list of compatible third-party software consult the ATND8677a product profile at Audio-Technica.com.

User Switch Settings and Functions in Local Mode

Control

	User Switch Mode	Switch Function LED Color	Default Mode LED Color
Default	Toggle (mute on power up)	Green	Red
1st Press	Toggle (talk on power up)	Green	Green
2nd Press	Press to Talk	Red	Red
3rd Press	Press to Mute	Red	Green

Specifications

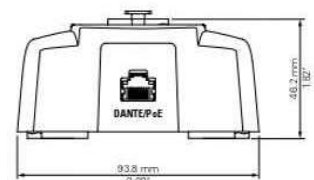
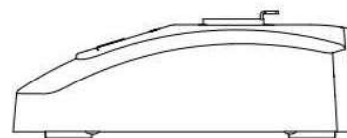
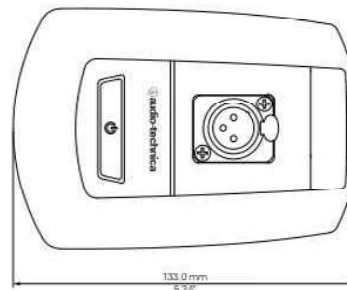
Frequency response	20-20,000 Hz
Low frequency roll-off	80 Hz, 18 dB/octave
Input impedance	1.4 kΩ
Maximum input levels	-10 dBu @ +30 dB gain -20 dBu @ +40 dB gain -30 dBu @ +50 dB gain
Signal-to-noise ratio ¹	68 dB, 1 kHz at 1 Pa
Power requirements	PoE IEEE802.3af standard
Power consumption	1.5W
Microphone phantom power	12V DC
Switches	Local Mode: Touch-sensitive capacitive-type user switch function: toggle (mute on power up), toggle (talk on power up), momentary on, momentary off; Low-cut filter: flat, roll-off; Gain: +30 dB, +40 dB, +50 dB; Phantom power: 12V DC, off Remote Mode: Low-cut and Gain via third-party software*
Weight	770 g (27.2 oz)
Dimensions	133.0 mm (5.24") maximum length, 93.8 mm (3.69") maximum width, 46.2 mm (1.82") maximum height
Input connector	3-pin XLRF-type
Output connector	Physical level: standard Ethernet Connector: single RJ45
Dante network	Cable quality: Shielded CAT5 or CAT6 recommended Transmission speed: 100 Mbps

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

¹ 1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

² Typical, A-weighted, using Audio Precision System One.

Specifications are subject to change without notice.



audio-technica

Audio-Technica Corporation

www.audio-technica.com

©2018 Audio-Technica

0001-0356-00



ATND971a Cardioid Condenser Boundary Microphone with Dante™ Network Output



Network Microphones

Features

- Connects directly to network via Ethernet cable—no soldering or additional cable required
- Integrated user switch controls talk/mute in Local mode and triggers Dante-enabled devices in Remote mode
- Local or remote control of gain, low-cut UniSteep® filter and red/green LED status indicator
- Powered by network PoE
- Scalable across Dante's 512 bidirectional audio channels
- Touch-sensitive capacitive-type user switch
- UniGuard® RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI)
- UniSteep® filter provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality
- Available interchangeable elements permit angle of acceptance from 100° to 360°
- Heavy die-cast case and non-slip silicone foam bottom pads minimize coupling of surface vibration to the microphone

Description

The ATND971a is a Dante-enabled, wide-range condenser microphone with a cardioid polar pattern. It is designed for surface-mount applications such as high-quality sound reinforcement, conferencing, distance learning and other demanding sound pickup applications.

The microphone features a touch-sensitive capacitive-type user switch with integral red/green LED status indicator. In Local mode the user switch mutes and unmutes the microphone. It can be set to toggle between live and muted audio (toggle on/off), to permit live audio only while the switch is pressed (press to talk), or to mute the audio while the switch is pressed (press to mute). In Remote mode the user switch can be used to trigger functions on compatible Dante-enabled devices, such as a video camera's pan/tilt or a room's lighting preset. While in Remote mode the microphone's audio output is controlled remotely. An integral 80 Hz low-cut UniSteep® filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations. A three-position input gain level selector permits trim adjustment to accommodate louder and softer voices.

The gain, low-cut UniSteep® filter and red/green LED status indicator can all be controlled locally or remotely via third-party software.* Recessed buttons on the bottom of the microphone allow user to configure the microphone settings locally. Audio, low-cut and gain settings can be locked in Local mode by pressing and holding the lock button. This lock will prevent end users from adjusting the settings. Default settings for the microphone are as follows: audio toggle on/off (with audio muted at power up), low-cut filter off, +30 dB input gain.

The audio output of the ATND971a can be routed using Audinate's Dante Controller, which is available for download at the Audinate website (www.audinate.com). The site also provides Dante routing and software instructions.

The microphone is equipped with UniGuard® RFI-shielding technology, which offers outstanding rejection of radio frequency interference (RFI).

The microphone's cardioid polar pattern provides a 120° angle of acceptance (cardioid in hemisphere above mounting surface). Additional interchangeable elements with omnidirectional (360°) and hypercardioid (100°) pickup patterns are available.

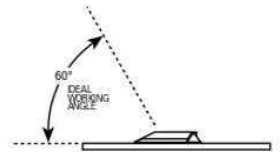
The microphone's heavy die-cast case and non-slip silicone foam bottom pads minimize coupling of surface vibration to the microphone. The microphone includes a soft protective pouch and features a low-reflectance black finish.

Installation and Operation

The ATND971a is powered by network PoE.

The electronics in the microphone take up to 30 seconds to stabilize after power is applied.

The microphone should be placed on a flat, unobstructed mounting surface, with the front of the microphone facing the sound source. The sound source should not be below, or higher than 60° above, the plane of the mounting surface.



The microphone features a touch-sensitive user switch with integral red/green LED status indicator. In Local mode, which is the default, the user switch mutes and unmutes the audio. The Local mode settings for the user switch – as well as the low-cut UniSteep® filter and input gain level – can be adjusted by pressing the appropriate recessed button on the bottom of the microphone.

The user switch has four Local settings (see User Switch Settings and Functions in Local Mode below) that can be chosen by pressing the button beneath "SWITCH FUNCTION" and "DEFAULT MODE." The default setting is TOGGLE ON/OFF (with audio muted at power up). Press the button once to change setting to TOGGLE ON/OFF (with audio on at power up). In both settings the user switch will toggle between mute and unmute – the only difference is the status of the audio when the microphone is turned on. Press the setting button a second time to select MOM. ON (momentary on), wherein the audio will be on only while the user switch is being pressed (press to talk). Press the setting button a third time to select MOM. OFF (momentary off), wherein the audio will be muted while the user switch is being pressed (press to mute). Press the setting button a fourth time to cycle the setting back to the default. The "SWITCH FUNCTION" and "DEFAULT MODE" LEDs will illuminate red or green to indicate the current setting.

Turn the low-cut UniSteep® filter on and off by pressing the button beneath "LOW CUT" on the bottom of the microphone. The filter is off by default. The LED above "LOW CUT" illuminates red when the filter is off, green when it is on.

There are three input gain levels that can be selected: +30 dB (for loudest voices), +40 dB and +50 dB (for softest voices). To adjust the gain level, press the button beneath "GAIN" on the bottom of the microphone. Pressing the button once changes the level from +30 dB to +40 dB, pressing it again changes the level to +50 dB and pressing a third time returns the level to +30 dB. The LED above "GAIN" illuminates green for +30 dB, orange for +40 dB and red for +50 dB.

To lock the Local settings, press and hold the button beneath "LOCK" on the bottom of the microphone. Press and hold again to unlock settings. The LED above "LOCK" will illuminate red when locked and remain unlit when not locked. If a setting button is pressed while the lock is on, the LOCK LED will blink.

ATND971a

All LEDs on the bottom of the microphone will turn off seven seconds after the last button is pressed. Pressing any button will cause the LEDs to relight.

To return the microphone to its default Local settings, press the GAIN and LOW CUT buttons simultaneously.

The microphone can also be controlled remotely via third-party software.* When this software is used it will override local control, causing the audio to remain on and the red/green LED status indicator, low-cut filter and input gain level to be controlled remotely. In Remote mode the microphone's user switch can be programmed to trigger functions on compatible Dante-enabled devices. When in remote mode the Remote LED is illuminated.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for extended periods. Extremely high humidity should also be avoided.

Note: Placing any object on a surface (such as a conference table) before its finish is fully cured may result in damage to the finish.

Architect's and Engineer's Specifications

The ATND971a microphone shall be a network-capable, fixed-charge condenser designed for use in surface-mount boundary applications. The output shall be an RJ45 type connection using standard network protocol. It shall have a frequency response of 30 Hz to 20,000 Hz and a cardioid polar pattern. The microphone's element shall be field replaceable; optional interchangeable elements for hypercardioid and omnidirectional polar patterns shall be available. The microphone shall be capable of handling sound input levels up to 120 dB. An 80 Hz "low cut" switch shall be provided to tailor the low-frequency response to minimize pickup of unwanted sounds; it shall be selectable both locally and remotely via third-party software.* There shall be three gain levels: +30 dB, +40 dB, and +50 dB, selectable both locally and remotely via third-party software.* In the Local mode, the device shall function as a standard switch-controlled microphone with muting taking place at the microphone. In the Remote mode, the microphone shall become disengaged from the switching circuit allowing the switch to control external functions over the network.

The microphone shall have a maximum width of 89.5 mm (3.52"), a maximum length of 110.0 mm (4.33") and a maximum height of 35.8 mm (1.41"). Weight shall be 393 g (13.8 oz). The microphone shall be housed in a die-cast case with a perforated steel grille. Finish shall be low-reflectance black. The microphone shall include a soft protective pouch.

The microphone shall be capable of driving a Dante audio flow.

The microphone shall accept IEEE802.3af standard PoE as power input. The microphone shall consume less than 1.5W.

The microphone shall be compliant with FCC Part15, CE and RoHS requirements.

The Audio-Technica ATND971a is specified.

*For a list of compatible third-party software consult the ATND971a product profile at Audio-Technica.com.

User Switch Settings and Functions in Local Mode

Control	User Switch Mode	Switch Function LED Color	Default Mode LED Color
Default	Toggle (mute on power up)	Green	Red
1st Press	Toggle (talk on power up)	Green	Green
2nd Press	Press to Talk	Red	Red
3rd Press	Press to Mute	Red	Green

Specifications

Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Half-cardioid (cardioid in hemisphere above mounting surface)
Frequency response	30-20,000 Hz
Low frequency roll-off	80 Hz, 18 dB/octave
Maximum input sound level	117 dB SPL, 1 kHz at 1% T.H.D.
Signal-to-noise ratio¹	68 dB, 1 kHz at 1 Pa
Power requirements	PoE IEEE802.3af standard
Power consumption	1.5W
Switches	Local Mode: Touch-sensitive capacitive-type user switch function: toggle (mute on power up), toggle (talk on power up), momentary on, momentary off; Low-cut filter: flat, roll-off; Gain: +30 dB, +40 dB, +50 dB Remote Mode: Low-cut and Gain via third-party software*
Weight	393 g (13.8 oz)
Dimensions	110.0 mm (4.33") maximum length, 89.5 mm (3.52") maximum width, 35.8 mm (1.41") maximum height
Output connector	RJ45
Dante network	Physical level: standard Ethernet Connector: single RJ45 Cable quality: Shielded CAT5 or CAT6 recommended Transmission speed: 100 Mbps
Optional interchangeable elements	UE-O omnidirectional (360°) UE-H hypercardioid (100°)
Accessory furnished	Soft protective pouch

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

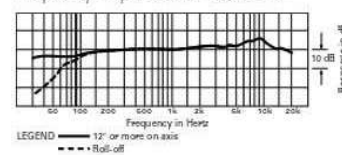
¹ 1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

¹ Typical, A-weighted, using Audio Precision System One.

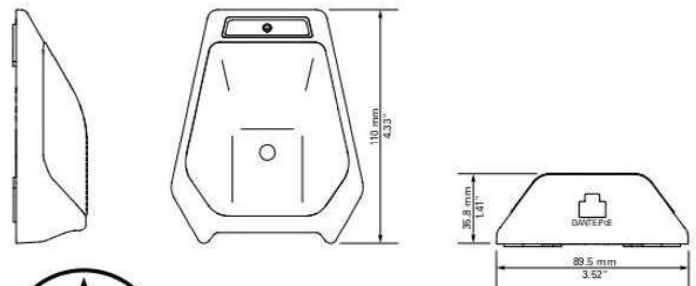
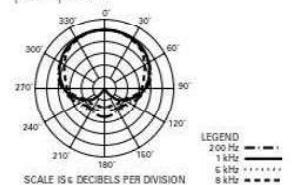
Specifications are subject to change without notice.



frequency response: 30–20,000 Hz



polar pattern



Audio-Technica Corporation
www.audio-technica.com
©2018 Audio-Technica

0001-0343-00

AT-One Wireless System

ATW-11F Beltpack Wireless System & ATW-13F Handheld Wireless System

Introducing **AT-One**, Audio-Technica's entry level UHF wireless system.

With a 2 x 4 channel frequency plan for enhanced flexibility, sturdy but stylish build quality and a simple user interface, **AT-One** is ready to become your perfect wireless companion.

AT-One is designed with simplicity and ease-of-use in mind. Equipped with a practical carrying case, rack-mount kit and detachable antennae, **AT-One** is the perfect balance of price and performance, ideal for those looking for accurate, reliable performance at an entry level price.

The **AT-One**'s frequency plan is divided into two groups with 4 available channels in each group split between the Europe-wide license free frequency range and the LTE duplex gap. Users can choose up to 4 channels from 1 group.

Available in three configurations, **AT-One** can be purchased with a beltpack or handheld transmitter as well as with a belt pack and lavalier microphone.

The **ATW-11F** comes equipped with a sturdy, discreetly designed beltpack, providing 10mW RF output power, damping switch and a battery life of 10 hours.

The **ATW-13F** handheld system features the **ATW-T3F** cardioid condenser handheld transmitter, again with 10mW RF output and 10 hour battery life.

The **ATW-11/PF** Tie-Clip system comes equipped with the **ATW-T1F** belt pack and **ATR35cW** tie-clip microphone.

The **ATW-13F**'s condenser handheld microphone prevents the possibility of feedback when used in venues with induction loops installed.

Product Features:

- 2 x 4 Channel Frequency Plan
- Clear Receiver Display
- Rack-Mountable Design
- Intuitive Receiver and Transmitter Controls
- RF Indicator Light
- Sturdy But Stylish Build Quality

Pricing:

- ATW-11F** Beltpack System - £160.00 inc VAT / 219.00 Euro inc VAT
- ATW-13F** Handheld System - £174.00 inc VAT / 239.00 Euro inc VAT
- ATW-11/PF** Beltpack System - £000.00 inc VAT / 269.00 Euro inc VAT
- ATW-T1F** Beltpack Transmitter - £65.00 inc VAT / 89.00 Euro inc VAT
- ATW-T3F** Handheld Transmitter - £80.00 inc VAT / 109.00 Euro inc VAT
- AT8677** Dual Rackmount Kit - £14.00 inc VAT / 19.00 Euro inc VAT

Availability: November.2015.

EAN Code: TBC.



ATW-T1F



ATW-T3F



ATW-R1F

 **audio-technica.**
always listening

Audio-Technica Limited, Technica House, Unit 5, Millennium Way, Leeds LS11 5AL England
Audio-Technica SAS, 11 rue des Pyramides, 75001 Paris, France
Audio-Technica Niederlassung Deutschland, Lorenz-Schott-Str.5, D-55252 Mainz-Kastel, Germany
Audio-Technica Central Europe Ltd, Fogado u. 3, Budapest 1107, Hungary
©2015 Audio-Technica, www.audio-technica.com

AT-One Wireless System

Specifications*:

OVERALL SYSTEM SPECIFICATIONS - AT-ONE

Frequency Range	824 - 831 MHz, 863-865 MHz
Modulation Mode	FM
Number of Frequencies	2x 4-frequencies
Simultaneous Frequencies	4
Maximum Deviation	+/- 33 kHz
Operating Range	60m, typical
Operating Temperature	+5°C - +45° C
Frequency Response	60 Hz - 16 kHz
Frequency Stability	+/- 0.005%, Phase lock loop frequency control

ATW-R1 RECEIVER SPECIFICATIONS

Receiving System:	Antenna switching diversity
Image Rejection:	55dB minimum
Dynamic Range:	HH: 108 dB, BP 103 dB (@ max deviation)
Sensitivity:	10dB μ V (S/N 60dB @ 20 kHz deviation)
Total Harmonic Distortion:	<1% - 20 kHz deviation @ 1 kHz
Level Control:	Mic / Line (0 / -20dB)
Antenna Input:	BNC type, 50 Ω - BIAS voltage 12V DC 100mA each
Audio Output:	Unbalanced -2dBV Balanced 4dBV
Output Connectors:	Unbalanced: 6.3 mm mono jack Balanced: XLRM-type
Squelch Level:	2 μ V (min) - 60 μ V (max)
Channel Select:	2-Digit 7-segment LED display
Power Supply:	100-240 V DC 12V 500mA
Dimensions:	200 mm x 42 mm x 122 mm (W x H x D)
Weight:	418 g without accessories
Accessories Included:	AC Adapter, Antennas, Rack mount adapter
Optional System Accessory:	AT8677 Dual rack mount kit

ATW-T1 BODY-PACK TRANSMITTER

RF Output Power:	10 mW
Spurious Emissions:	Following national regulatios
Input Connections:	Pin 1: GND Pin 2: INST Pin 3: Mic Pin 4: DC Bias +10V
Batteries (not included):	Two 1.5V AA alkaline
Battery Life:	10 hours - depending on battery type and use pattern
Dimension:	66 mm x 98 mm x 22 mm (W x H x D)
Weight:	71 g without batteries

ATW-T3 HANDHELD TRANSMITTER

RF Output power:	10 mW
Spurious Emissions:	Following national regulatios
Microphone Element:	Condenser Cardioid
Batteries (not included):	Two 1.5V AA alkaline
Battery Life:	10 hours - depending on battery type and use pattern
Dimension:	268 mm long - 52 mm (diameter),
Weight:	227 g without batteries
Accessory included:	Stand clamp

* Specifications are subject to change without notice.



Audio-Technica Limited, Technica House, Unit 5, Millennium Way, Leeds LS11 5AL England
Audio-Technica SAS, 11 rue des Pyramides, 75001 Paris, France
Audio-Technica Niederlassung Deutschland, Lorenz-Schott-Str.5, D-55252 Mainz-Kastel, Germany
Audio-Technica Central Europe Ltd, Fogado u. 3, Budapest 1107, Hungary
©2015 Audio-Technica, www.audio-technica.com



3000 Digital Series



OVERALL SYSTEM SPECIFICATIONS

Operating Frequencies	Band DE2E: 470.125 to 529.975 MHz Band EE1E: 530.000 to 589.975 MHz Band FF1E: 606.000 to 665.975 MHz
Minimum Frequency Step	125 kHz
Modulation Mode	$\pi/4$ -shift DQPSK
Occupied Bandwidth	192 kHz or lower
Dynamic Range	ATW-DT3101 (Mic input): 120 dB or higher, A-weighted, typical ATW-DT3101 (Inst input): 108 dB or higher, A-weighted, typical ATW-DT3102: 120 dB or higher, A-weighted, typical
Total Harmonic Distortion	0.1% or less (at 1 kHz, -20 dBFS)
Delay	2.5 ms or less <i>During XLR output</i>
Operating Range	120 m <i>Open range environment with no interfering signals.</i>
Frequency Response	20 to 22,000 Hz <i>Depending on the microphone element used.</i>
Number of Simultaneous Channels	Up to 22 ch in one 8 MHz TV channel <i>Depending on radio wave environment and usage conditions.</i>

Advanced security features

A 4-digit PIN code can be set between transmitter and receiver to limit external access to broadcast audio signals. For enhanced security, AES-256* mode can be activated to ensure a fully private connection between one transmitter and its associated receiver.

* AES-256 is an Advanced Encryption Standard established by the National Institute of Standards and Technology (NIST).

Network

Used with Audio-Technica's Wireless Manager software, you can monitor frequency coordination, equipment status and logs. Wireless Manager can also use a system to check the RF environment in real-time and check signal reliability with a walk test.

Charging status information can be obtained via network connection.

Antenna cascade output

The ATW-DR3120DAN features an antenna cascade output, allowing up to 5 receivers to be linked together. This means a single pair of antennas can feed up to 10 channels of wireless without antenna distribution, significantly reducing cost and rack space required.

When utilising higher channel counts, an antenna distributor may be required.

External control

Supports touch panel interfaces such as AMX, CRESTRON and system controllers via an IP Control Protocol, allowing deeper integration with audio-visual control programs.

Dante™ output

The ATW-DR3120DAN features Dante™, providing a low-latency, high-performance network audio solution which is easy to implement, use and extend.

Uncompromising high-quality sound

In addition to 24-bit / 48 kHz digital processing, the 3000 Digital Series features a wide 120 dB dynamic range. Our proprietary audio codec technology accurately represents high frequencies, making the system well suited for use with musical instruments, as well as voices.

60 MHz tuning range

Features an extremely wide 60 MHz UHF tuning bandwidth for maximum versatility in an increasingly congested RF environment.

Battery charging

When fitted with NiMH rechargeable batteries, the 3000 Digital Series transmitters can be easily charged using the optional ATW-CHG3 or ATW-CHG3N Charging Station.

Low-latency audio output

The system features a low latency of 2.5 ms to balanced XLR audio outputs, providing a stable audio signal with a fast response due to low delay after error correction.

Interchangeable microphone capsules

Includes an industry-standard thread mount for use with A-T microphone capsules and compatible alternatives. Audio-Technica offers a line-up of standard models such as the ATM510, ATM710 and Artist Elite flagship microphones.



ATW-DT3101 Specifications

3000 Digital Series Body Pack Transmitter

High-quality sound transmitter for use with microphones and cables featuring cH-style screw-down 4-pin connector.

- Equipped with Audio-Technica proprietary codec designed for high sound quality.
- 2.5 ms audio latency.
- Unique multifunction button can be used to perform one of two functions: turn off RF transmission or switch to a backup frequency to avoid interference.
- Rugged cH-style screw-down 4-pin connector provides secure connection to lavalier mics, headworn mics, and cables with cH-style connector.
- Gain can be adjusted in 2 dB increments from -10 to 20 dB.
- Compatible with optional ATW-CHG3 and ATW-CHG3N smart charging docks to recharge NiMH batteries.



ATW-DT3102 Specifications

3000 Digital Series Handheld Transmitter

High-quality sound transmitter compatible with interchangeable microphone capsules.

- Equipped with Audio-Technica proprietary codec designed for high sound quality.
- 2.5 ms audio latency.
- Extremely low handling noise.
- Industry-standard thread for use with interchangeable A-T microphone capsules and compatible alternatives.
- Unique multifunction button can be used to perform one of two functions: turn off RF transmission or switch to a backup frequency to avoid interference.
- Gain can be adjusted in 2 dB increments from -10 to 20 dB.
- Compatible with optional ATW-CHG3 and ATW-CHG3N smart charging docks to recharge NiMH batteries.



ATW-DR3120DAN Specifications

3000 Digital Series Dual Channel Receiver with Dante™

High-quality digital wireless system with a newly developed proprietary codec.

- Equipped with Audio-Technica proprietary codec designed for high sound quality.
- 2.5 ms audio latency.
- Antenna cascade output allows up to 5 receivers to be linked together, enabling a single pair of antennas to power 10 wireless channels.
- AES-256 function provides enhanced confidentiality.
- Network-enabled receiver provides monitoring and control via Wireless Manager software.
- Switchable Audio MIX function allows both receiver channels to be mixed to one output socket.
- Features an AES67-compatible Dante™ output.





SPECIFICATIONS		ATW-DT3101
RF Output Power		High: 20 mW, Mid: 10 mW, Low: 2 mW
Inout Connection		Four pin locking connector (Pin 1: GND, pin 2: INST INPUT, pin 3: MIC INPUT, pin 4: DC BIAS +5 V)
High-pass Filter (low-freq. roll-off)		80 Hz, 120 Hz, 160 Hz, 12 dB/octave
Power Supply		Two alkaline or nickel-metal hydride 1.5 V AA batteries (not included)
Operating Temperature Range		-5°C to +40°C (23°F to 104°F)
Battery Life		When using nickel-metal hydride 1.5 V AA batteries: Approx. 7 hours (1900 mAh High), approx. 9 hours (2500 mAh High) When using alkaline 1.5 V AA batteries: Approx. 6 hours (High)
Dimensions		64 mm (2.52") × 23 mm (0.91") × 82 mm (3.23") (W × D × H)
Weight (without batteries)		Approx. 105 g (3.7 oz)
Included Accessories		Pouch



SPECIFICATIONS		ATW-DT3102
RF Output Power		High: 20 mW, Mid: 10 mW, Low: 2 mW
High-pass Filter (low-freq. roll-off)		80 Hz, 120 Hz, 160 Hz, 12 dB/octave
Power Supply		Two alkaline or nickel-metal hydride 1.5 V AA batteries (not included)
Operating Temperature Range		-5°C to +40°C (23°F to 104°F)
Battery Life		When using nickel-metal hydride 1.5 V AA batteries: Approx. 7 hours (1900 mAh High), approx. 9 hours (2500 mAh High) When using alkaline 1.5 V AA batteries: Approx. 6 hours (High)
Dimensions		193 mm (7.60") × 37 mm (1.46") (without microphone capsule)
Weight (without batteries)		Approx. 205 g (7.23 oz)
Included Accessories		Pouch, AT8456a Quiet-Flex™ microphone stand clamp



SPECIFICATIONS		ATW-DR3120DAN
Receiving System		True diversity
Image Rejection		70 dB
RF Sensitivity		-98 dBm (10 ⁻⁵ BER)
Maximum Output Level		18 dBV (Line), -12 dBV (Mic)
Antenna Input		BNC-type, 50 ohms
Antenna Power		12 VDC, 150 mA (combined)
Power Supply		100 to 240 VAC (50/60 Hz)
Operating Temperature Range		-5°C to +40°C (23°F to 104°F)
Dimensions		483 mm (19.02") × 385 mm (15.16") × 44 mm (1.73") (W × D × H)
Weight		Approx. 4.1 kg (144.6 oz)
Included Accessories		Flexible UHF antenna × 2, power cable, rubber feet × 4



Product codes

ATW-DT3101

ATW-DT3101DE2E
ATW-DT3101EE1E
ATW-DT3101FF1E

ATW-DT3102

ATW-DT3102DE2E
ATW-DT3102EE1E
ATW-DT3102FF1E

ATW-DR3120DAN

ATW-DR3120DANDE2EEU
ATW-DR3120DANDE2EUK
ATW-DR3120DANEE1EEU
ATW-DR3120DANEE1EUK
ATW-DR3120DANFF1EEU
ATW-DR3120DANFF1EUK



3000 Series (Fourth Generation) Frequency-Agile True Diversity UHF Wireless Microphone Systems



Features

- Extremely wide 60 MHz UHF tuning bandwidth for maximum versatility in an increasingly congested RF environment
- Available in two frequency bands: DE2 (470–530 MHz) and EE1 (530–590 MHz)
- Up to 40 simultaneous channels per band (open-range environment with no interfering signals)
- Unique multifunction button on transmitters can be used to switch to a backup frequency (on both transmitter and receiver) should interference be encountered
- Auto Squelch feature automatically adjusts squelch setting to maximize range while minimizing potential interference
- Frequency scan and IR sync functionality for ease of setup
- Dual-mode receiver display can switch between standard and performance views
- Transmitters and receivers include easy-to-read OLED screens
- Handheld transmitter offers extremely low handling noise and includes an industry-standard thread mount for use with interchangeable A-T microphone capsules, as well as other compatible capsules
- Rugged cH-style connector on body-pack transmitter provides secure connection to lavalier mics, headworn mics, and cables with cH-style screw-down 4-pin connector
- Body-pack transmitter features a tactile mute toggle switch (defeatable) for physical confirmation of mute status when transmitter display is not visible
- Charging terminals on transmitters work with optional ATW-CHG3 and ATW-CHG3N charging docks to recharge NiMH batteries
- Antenna power available for powered antennas & other in-line RF devices
- Ground-lift switch helps eliminate audible hum caused by ground loops
- Balanced and unbalanced outputs

Description

The fourth-generation 3000 Series frequency-agile True Diversity UHF wireless systems offer rock-solid, latency-free, high-fidelity RF audio performance. Each system offers a 60 MHz tuning bandwidth in one of two available frequency bands: 470.125–529.975 MHz or 530.000–589.975 MHz. High-sensitivity, dual-conversion True Diversity operation with silent automatic switching provides dropout-free performance. The 3000 Series receiver and transmitters feature easy-to-use controls for quick access to a large range of functions, and an OLED screen for convenient visual indication of settings and operating information.

The ATW-R3210 receiver features automatic frequency scanning that eliminates the need for searching for clear channels by automatically selecting the most

appropriate frequency for the area in which the wireless is operating. 25 kHz frequency spacing enables the system to easily find an open frequency in crowded RF environments, while pre-coordinated frequency scan groups simplify selection of usable frequencies in a multichannel wireless system. Once selected, frequencies can be synced with transmitters using the system's IR sync functionality. The system's squelch setting can be configured to automatically adjust to maximize range while minimizing potential interference. Advanced digital Tone Lock™ squelch provides enhanced rejection of interference. In addition, the Tone Lock signal from the transmitter also conveys information on the transmitter's battery condition and mute status back to the receiver for display. The receiver's dual-mode front panel display can switch between the standard view, which provides continuous indication of RF signal strength, frequency, mute status, audio modulation level of the received signal, and transmitter information, and a performance view, which highlights key metering. Settings can be easily adjusted using the control dial and BACK button located on the receiver's front panel. Settings can also be locked to prevent them from being changed.

Operating on 12V DC, the receiver incorporates rear-panel connections for balanced XLR and unbalanced ¼" outputs, along with detachable BNC ¼" wave antennas. Switchable 12V DC antenna power is available on the BNC-type connectors for powered antenna accessories. The receiver is half-width for a standard 1U 19" rack-mount and includes rack-mount adapters.

All transmitters operate using two AA batteries and feature high- and low-level RF output settings. The low-level setting extends battery life while retaining a strong RF signal link. Charging terminals on the base of each transmitter work with the optional ATW-CHG3 and ATW-CHG3N charging docks to recharge AA NiMH batteries. Each transmitter's OLED screen presents a great deal of setup and operating information, including battery indicator, mute status and operating frequency. Setup functions are menu-driven via soft-touch controls, which are covered to prevent accidental activation. A dual-color status LED illuminates green when power is on and red when the transmitter is muted or battery power is low.

Transmitters have a selectable high-pass filter and a gain setting that can be adjusted in 2 dB increments. As with the receiver, transmitter settings can be locked.

The ATW-T3201 body-pack transmitter features a tactile mute toggle switch (defeatable) for physical confirmation of the mute status when the transmitter display is not visible. It also has a multifunction button that can be programmed to perform one of two functions when pressed and held: turn off RF transmission or switch to a preselected backup frequency to avoid interference. (The multifunction button can also be disabled.) An input is available on the transmitter for low-impedance microphone, and high-impedance musical instrument or line input. The transmitter supplies 5V DC bias to power condenser microphones. The rugged cH-style screw-down 4-pin input connector provides secure connection to cH-style lavalier mics, headworn mics, and cables. The durable metal body-pack transmitter features a field replaceable whip antenna, OLED screen, and a secure, locking battery compartment door.

The ATW-T3202 handheld transmitter offers extremely low handling noise and comes with either an ATW-C510 dynamic or ATW-C710 condenser interchangeable cardioid capsule. Each capsule features an integral two-stage pop filter within the rugged steel headcase to protect against "p" pops and other breath plosives. The transmitter's industry-standard thread mount also allows it to be used with

3000 Series (Fourth Generation)

additional Audio-Technica capsules (available separately) and other compatible capsules. Its multifunction button can be programmed to perform a specific function when pressed and held: mute the audio; mute the audio even when the transmitter is locked; turn off RF transmission; or switch to a preselected backup frequency to avoid interference. (The multifunction button can also be disabled.) The transmitter housing is made of metal with an integral antenna and an OLED screen. Each handheld transmitter includes a heavy-duty Quiet-Flex™ stand clamp.

The ATW-CHG3 two-bay charging dock (available as an optional component) charges NiMH batteries that are installed in the transmitters. The dock automatically shuts off if alkaline or damaged batteries are detected in the transmitters. Up to five docks can be linked and powered by a single power supply. The ATW-CHG3N networked version of the charging dock allows users to monitor the charging status of all transmitters in the linked docks.

Architect's and Engineer's Specifications

The frequency-agile FM wireless microphone system shall consist of a receiver and the appropriate transmitter, and shall operate in the UHF bands of 470.125–529.975 MHz or 530.000–589.975 MHz. The frequency-agile FM wireless receiver shall be all-metal and shall provide an automatic scanning function to select appropriate local usable channels for proper wireless system operation. It shall be a True Diversity receiver with two independent internal receiver sections, automatically selecting the highest quality signal for the receiver's output. All receiver settings shall be adjusted by using a control dial and BACK button on the receiver's front panel. The system will be equipped with an advanced pilot tone digital identification system to ensure that the desired wireless transmitter allows the receiver to be unmuted, reducing noise from unwanted signals. The receiver shall have an IR sync window on the front panel to sync settings with transmitters. It shall also have a dual-mode front panel display that switches between a standard view, which provides continuous indication of RF signal strength, frequency, mute status, audio modulation level of the received signal and other transmitter information, and a performance view, which highlights key metering. The receiver shall have a rear panel selector to lift the ground connection from pin 1 of the XLR-type output connector to prevent ground loops. The receiver shall be able to be powered by 12V DC 1A. Antennas shall be located on the rear of the receiver and shall incorporate standard BNC-type connectors to allow them to be detached from the receiver to facilitate the receiver being used with external antennas or antenna distribution devices. Switchable 12V DC power shall be provided on the BNC-type connectors. An accessory bracket should allow for the antennas to be located at the front of the receiver. The receiver can be rack-mounted singly or in pairs in a single rack space. The receiver's design shall provide totally silent audio output mute when the wireless transmitter is turned off or the signal is lost. The wireless receiver and the supplied metal rack-mounting brackets shall be industrial black.

The frequency-agile FM wireless body-pack transmitter shall have microphone and instrument level inputs. It shall provide DC voltage to power microphones requiring DC bias. The body-pack transmitter shall be part of a wireless microphone system operating in the bands of 470.125–529.975 MHz or 530.000–589.975 MHz. The body-pack transmitter shall have a reversible clip allowing for up or down cable entry. The transmitter shall have a screw-down 4-pin connector and a viewable fuel gauge to indicate the remaining battery life. Frequencies shall be selected using the transmitter's soft-touch controls. The transmitter shall also be equipped with a multifunction button that can be programmed to perform one of two functions when pressed and held: turn off RF transmission or switch to a preselected backup frequency. (The multifunction button can also be disabled.) The device shall have a dual-color LED that illuminates green when the power is on and illuminates red when the transmitter is muted or battery power is low. There shall be an adjustment to allow input gain changes in 2 dB steps with a total range

of 30 dB. There shall be a switchable 125 Hz high-pass filter. The transmitter shall include a pilot tone to identify the wireless transmitter to the wireless receiver. The transmitter shall utilize two RF output power levels and shall operate on two AA batteries. The battery compartment shall be locking. All setting adjustments shall be via soft-touch controls and shall remain as set even if the transmitter loses power or the batteries are removed. The transmitter shall have an IR sync button to allow receiver settings to be synced with the transmitter. An OLED screen shall be provided to show transmitter setup parameters or frequency. Charging terminals on the base of the transmitter shall work with an optional smart charging dock to recharge AA NiMH batteries installed in the transmitter. The transmitter shall have a removable and field-replaceable antenna.

The frequency-agile FM wireless handheld transmitter shall be part of a wireless microphone system operating in the bands of 470.125–529.975 MHz or 530.000–589.975 MHz. The transmitter shall come with either a dynamic or a condenser cardioid microphone capsule, which shall screw onto the transmitter's industry-standard thread mount. Each capsule shall incorporate internal shock mounting and have a two-stage integral pop filter. The transmitter shall also work with additional capsules specifically designed for the transmitter (available separately) as well as other compatible capsules. The transmitter shall have a metal housing with a plastic antenna end cap. The transmitter shall transmit a digital pilot tone that allows the receiver to unmute. The transmitter shall also be equipped with a multifunction button that can be programmed to perform a specific function when pressed and held: mute the audio; mute the audio even when the transmitter is locked; turn off RF transmission; or switch to a preselected backup frequency. (The multifunction button can also be disabled.) A dual-color LED indicator shall illuminate green when the power is on and red when the transmitter is muted or battery power is low. An OLED screen shall be provided to show transmitter setup parameters or frequency. The microphone shall have an audio input level adjustment range of 30 dB in 2 dB steps. It shall also have a switchable 150 Hz high-pass filter. All setting adjustments shall be via soft-touch controls and shall remain as set even if the transmitter loses power or the batteries are removed. The transmitter shall have an IR sync button to allow receiver settings to be synced with the transmitter. The transmitter shall operate on two AA batteries and contain a Hi/Lo RF power selector. A battery fuel gauge shall be incorporated to indicate the status of the internal batteries. Charging terminals on the base of the transmitter shall work with an optional smart charging dock to recharge AA NiMH batteries installed in the transmitter. The transmitter shall be supplied with a heavy-duty stand clamp.

A two-bay charging dock shall also be available as an optional component. It shall charge AA NiMH batteries that are installed in body-pack or handheld transmitters. The charging dock shall automatically shut off if alkaline or damaged batteries are detected in the transmitters. A single power supply shall power up to five linked docks. A networked version of the charging dock shall also be available as an optional component. The networked dock shall be capable of monitoring the charging status of all transmitters in up to five linked docks.

3000 Series (Fourth Generation)

The wireless system shall be an Audio-Technica (note to specifier: choose one):

ATW-3211 – Basic Body-Pack System
 ATW-3211/831 – Body-Pack System with AT831cH Lavalier Microphone
 ATW-3211/892 – Body-Pack System with BP892cH MicroSet® Headworn Condenser Microphone (black)
 ATW-3211/892-TH – Body-Pack System with BP892cH-TH MicroSet® Headworn Condenser Microphone (beige)
 ATW-3211/893 – Body-Pack System with BP893cH MicroEarset Headworn Condenser Microphone (black)
 ATW-3211/893-TH – Body-Pack System with BP893cH-TH MicroEarset Headworn Condenser Microphone (beige)
 ATW-3211/894 – Body-Pack System with BP894cH MicroSet® Headworn Condenser Microphone (black)
 ATW-3211/894-TH – Body-Pack System with BP894cH-TH MicroSet® Headworn Condenser Microphone (beige)
 ATW-3212 – Basic Handheld System
 ATW-3212/C510 – Handheld System with ATW-C510 cardioid dynamic microphone capsule
 ATW-3212/C710 – Handheld System with ATW-C710 cardioid condenser microphone capsule

The optional charging docks shall be an Audio-Technica (note to specifier: choose one):

ATW-CHG3 – Two-bay smart charging dock


ATW-CHG3N – Networked two-bay smart charging dock

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

Specifications are subject to change without notice.

Specifications	Overall system
UHF operating frequencies	Band DE2: 470.125–529.975 MHz Band EE1: 530.000–589.975 MHz
Minimum frequency step	25 kHz
Modulation mode	FM
Maximum deviation	ATW-T3201: ±38 kHz (THD: 10%); ATW-T3202: ±36 kHz (THD: 10%)
Dynamic range (A-weighted, typical)	ATW-T3201: Mic input: >115 dB; ATW-T3201: Inst input: >112 dBI; ATW-T3202: >115 dB
Total harmonic distortion	<1% (at 1 kHz, ±17.5 kHz deviation)
Operating range	100 m (328') typical (open range environment with no interfering signals)
Operating temperature range	–5° C to +45° C (23° F to 113° F) (battery and LCD performance may be reduced at very low temperatures)
Frequency response	ATW-T3201: 31 Hz to 15,500 Hz ATW-T3202: 25 Hz to 16,700 Hz (Frequency response depends on attached microphone element)
Maximum simultaneous use (recommended)	40 channels per band (region and band dependent)
ATW-R3210 receiver	
Receiving system	True Diversity
Image rejection	60 dB nominal
RF sensitivity	20 dBuV at 60 dB S/N ratio (50 ohms termination)
Maximum output level	XLR Balanced: +14 dBV 6.3 mm (¼") Unbalanced: +8 dBV
Antenna input	BNC-type, 50 ohms
Antenna power	12V DC, 160 mA (combined)
Power supply	100-240V AC (50/60 Hz) to 12V DC 1A (center positive) switched mode external power supply
Dimensions	210.0 mm (8.27") W x 191.0 mm (7.52") D x 43.4 mm (1.71") H
Net weight	1,100 g (38.8 oz), without accessories
Accessories included	Two flexible UHF antennas; AC adapter (country dependent); rack-mount adapters; joining plate

3000 Series (Fourth Generation)

Specifications (continued)		ATW-T3201 body-pack transmitter
RF power output		High: 30 mW; Low: 10 mW (switchable), at 50 ohms
Spurious emissions		Following federal and national regulations
Input connection		cH-style screw-down 4-pin connector
		Pin 1: GND Pin 2: INST INPUT Pin 3: MIC INPUT Pin 4: DC BIAS +5V
High-pass (low-freq. roll-off)		125 Hz, 12 dB/octave
Batteries		Two 1.5V AA, not included
Battery life		High: 8.0 hours (alkaline); Low: 9.0 hours (alkaline) High: 9.0 hours (NiMH 1,900 mAh); Low: 9.5 hours (NiMH 1,900 mAh) (depending on battery type and use pattern)
Dimensions		64.0 mm (2.52") W x 23.0 mm (0.91") D x 82.0 mm (3.23") H
Net weight		102 g (3.6 oz)

		ATW-T3202 handheld transmitter
RF power output		High: 30 mW; Low: 10 mW (switchable), at 50 ohms
Spurious emissions		Following federal and national regulations
Microphone element		Interchangeable industry-standard thread
High-pass (low-freq. roll-off)		150 Hz, 6 dB/octave
Batteries		Two 1.5V AA, not included
Battery life		High: 8.0 hours (alkaline); Low: 9.0 hours (alkaline) High: 9.0 hours (NiMH 1,900 mAh); Low: 9.5 hours (NiMH 1,900 mAh) (depending on battery type and use pattern)
Dimensions		Without capsule: 193.0 mm (7.60") long, 37.0 mm (1.46") maximum diameter; With C510 capsule: 265.0 mm (10.43") long, 54.0 mm (2.13") maximum diameter; With C710 capsule: 271.0 mm (10.67") long, 50.0 mm (1.97") maximum diameter
Net weight		Without capsule: 200 g (7.1 oz); With C510 capsule: 330 g (11.6 oz); With C710 capsule: 314 g (11.1 oz)
Accessory included		A18456a Quiet-Flex™ stand clamp; 5/16"-27 male to 3/8"-16 female threaded screw adapter

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

Specifications are subject to change without notice.



audio-technica

Audio-Technica Corporation
audio-technica.com
©2018 Audio-Technica

Form No. 0001-0024-03



ATDM-0604a

Digital SmartMixer®



Overview

Introducing Audio-Technica's new ATDM-0604a Digital SmartMixer® with advanced functionality for use in a wide variety of applications, from meeting spaces to educational facilities. Incorporating user feedback, the enhanced functions of this model bring improved performance for online or live meetings. The main performance improvements and enhancements over the previous model are as follows:

- Improved echo and noise-cancellation performance
- Remote LED control of ES954 hanging microphone array via the GPO terminal
- Ability to cascade up to eight mixers, allowing them to share audio buses and SmartMix controls
- Expanded compatibility with a wide variety of Audio-Technica LINK-enabled products
- Mic/line level support for input channels 1 to 6

Features

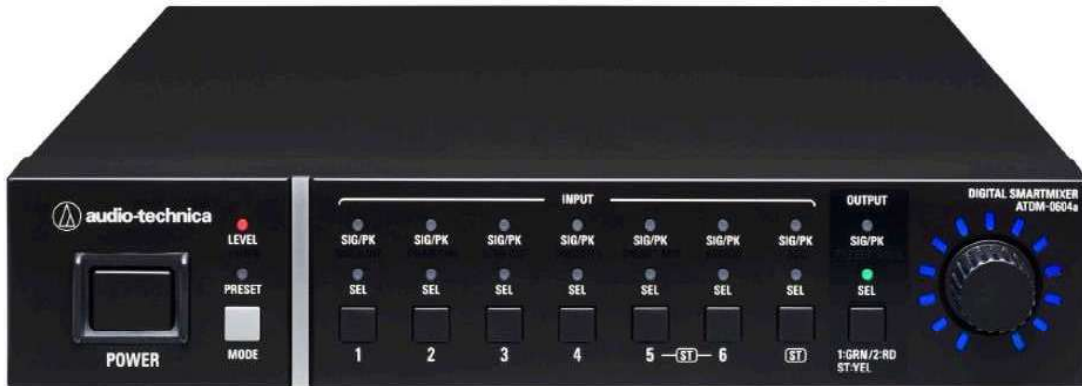
- 6 mic/line inputs and 1 unbalanced stereo input
- 2 balanced outputs and 1 unbalanced stereo output
- USB audio input/output (1 stereo input, 1 stereo output)
- Remote LED control of ES954 hanging microphone arrays using the GPO terminal
- SmartMixer® with selectable gain sharing or gate mode
- High-performance echo canceler for each input channel
- Noise cancellation that can be assigned to any output channel
- Built-in 4-band EQ and compressor/de-esser for each input channel
- Eight 8-band feedback suppressors that can be assigned to mic/line inputs and any output channel
- Built-in 12-band PEQ, compressor, and limiter for each output channel
- Dedicated Audio-Technica LINK terminals, compatible with a wide variety of Audio-Technica LINK-enabled products
- Audio input/output settings can be configured from the front panel in applications where a computer is not available
- Advanced settings can be configured using the web browser or SmartMixer Manager app GUI in applications with a computer
- IP Protocol-based external remote control





ATDM-0604a

Digital SmartMixer®



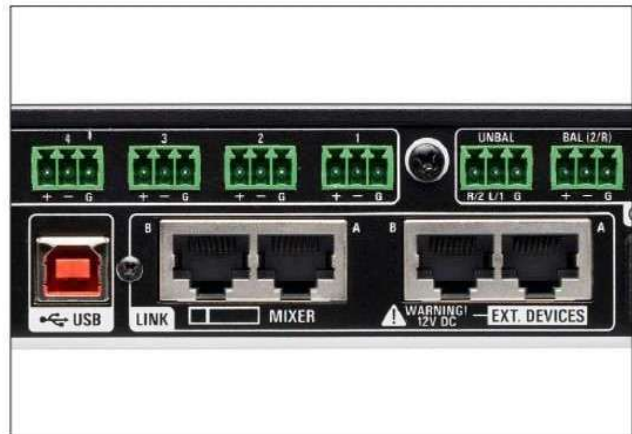
Overview

Introducing Audio-Technica's new ATDM-0604a Digital SmartMixer® with advanced functionality for use in a wide variety of applications, from meeting spaces to educational facilities. Incorporating user feedback, the enhanced functions of this model bring improved performance for online or live meetings. The main performance improvements and enhancements over the previous model are as follows:

- Improved echo and noise-cancellation performance
- Remote LED control of ES954 hanging microphone array via the GPO terminal
- Ability to cascade up to eight mixers, allowing them to share audio buses and SmartMix controls
- Expanded compatibility with a wide variety of Audio-Technica LINK-enabled products
- Mic/line level support for input channels 1 to 6

Features

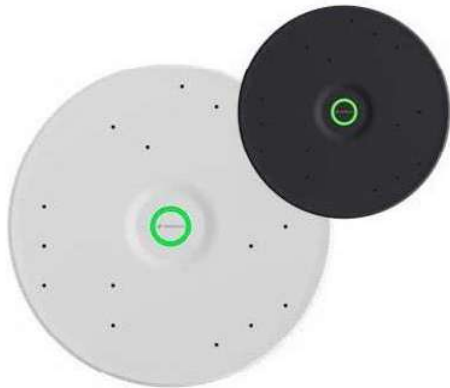
- 6 mic/line inputs and 1 unbalanced stereo input
- 2 balanced outputs and 1 unbalanced stereo output
- USB audio input/output (1 stereo input, 1 stereo output)
- Remote LED control of ES954 hanging microphone arrays using the GPO terminal
- SmartMixer® with selectable gain sharing or gate mode
- High-performance echo canceler for each input channel
- Noise cancellation that can be assigned to any output channel
- Built-in 4-band EQ and compressor/de-esser for each input channel
- Eight 8-band feedback suppressors that can be assigned to mic/line inputs and any output channel
- Built-in 12-band PEQ, compressor, and limiter for each output channel
- Dedicated Audio-Technica LINK terminals, compatible with a wide variety of Audio-Technica LINK-enabled products
- Audio input/output settings can be configured from the front panel in applications where a computer is not available
- Advanced settings can be configured using the web browser or SmartMixer Manager app GUI in applications with a computer
- IP Protocol-based external remote control





TeamConnect Ceiling Medium

Ceiling microphone array (Firmware \geq 1.2.7)

Sennheiser
Control Cockpit

FEATURES

- Patented automatic dynamic beamforming
- TruVoicelift
- 15 SMD Electret condenser capsules made in Germany
- Perfect speech intelligibility
- Dante or Analog Output
- PoE
- Exclusion Zones
- Priority Zone
- Camera Control via talker position data
- IEEE 802.1x
- TLS 1.2
- 5 years warranty (with registration)

DELIVERY INCLUDES

TCC M-F-W (Art. no. 700170)

TCC M-F-B (Art. no. 700234)

Ceiling Mic Flush Mount Kit

- Microphone
- Front plate
- Flush Mount kit
- Chicago plenum connection box cover plate
- Phoenix connector
- Mounting rope
- Suspension kit

TCCM CT-W (Art. no. 700517)

TCCM CT-W 2FT (Art. no. 700518)

Ceiling Mic Flush Mount Kit (Ceiling Tile)

- Microphone
- Ceiling Tile mounting plate
- Phoenix connector
- Mounting rope
- Suspension kit

With a coverage of up to 50 m², our ceiling microphone TeamConnect Ceiling Medium is the right choice for mid-sized meeting rooms and lecture or collaboration spaces.

With this solution, Sennheiser provides an additional design option to seamlessly include our audibly superior ceiling microphone into your meeting room.

With all the great features of our trusted TeamConnect Ceiling 2 but in a more compact form, the TeamConnect Ceiling Medium microphone is a real problem-solver that allows cable-free tables and flexible furniture arrangement, while offering all of the TeamConnect Ceiling Solutions benefits like Trusted Sennheiser Audio Quality, efficient setup, brand agnostic integration, simple management and control, a sleek design and a sustainable impact.

TCC M-S-W (Art. no. 700294)

TCC M-S-B (Art. no. 700295)

Ceiling Mic Housing Kit

- Microphone
- Front plate
- Design housing
- Chicago plenum connection box cover
- Phoenix connector
- Mounting rope
- Suspension kit

CONTROL SOFTWARE

Sennheiser Control Cockpit

free download at:

www.sennheiser.com/control-cockpit-software

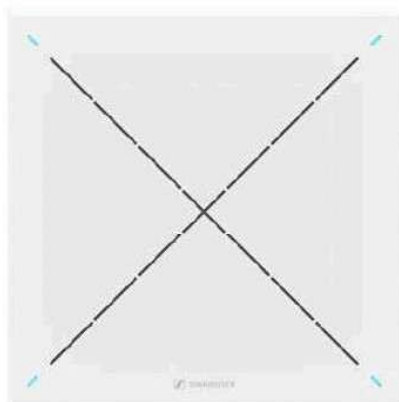


TeamConnect Ceiling 2

Ceiling array microphone

FEATURES

- Ceiling array microphone with patented automatic speaker position detection and dynamic beamforming for best speech intelligibility
- Analog and digital (Dante™) audio outputs for easy connectivity to video and audio conference systems
- Configuration and monitoring via Sennheiser's unique Control Cockpit software
- Open API for media and camera control applications
- Several installation options via suspension kit, flush-mount or surface bracket



TeamConnect Ceiling 2 offers superior audio quality for voice and video conferences. Thanks to Sennheiser's patented adaptive beamforming technology it automatically follows the active speaker's voice, letting people speak naturally – whether they are sitting, standing or walking around the room. TeamConnect Ceiling 2 offers great versatility and interoperability with support for Dante™ networks and Power over Ethernet. It is compatible with Sennheiser's Control Cockpit software for efficient remote management, and offers remote configuration and monitoring via an open media control protocol (API), allowing for easy integration into media systems and camera control applications.



SPECIFICATIONS

Dimensions (L x B x H)	590 x 590 x 43 mm (23.2" x 23.2" x 1.7")
Weight	6 kg (13.2 lbs)
Audio Output	1 x 3-pin terminals (fits Phoenix contact MCVW 1.5-3-ST-3.81) 2 x Digital Dante Network Audio (RJ45)
Ethernet / Control	1 x RJ45 Ethernet Port for PoE power supply and data / control communication
Supply voltage	44 – 57 V DC (via PoE)
Temperature	Operation: 0 – 40 °C (32 - 104 °F) Storage: -10 – 60 °C (14 - 140 °F)
Relative humidity	20 – 95 %, non condensing
Microphone type	pre-polarized condenser microphone
Sensitivity	-1 dBV/Pa (930 mV/Pa)
Number of KE 10-237 microphone capsules	28

Pick-up pattern	Beam pattern
Max. sound pressure level	119 dB SPL
Dynamic range	99 dB(A)

DELIVERY INCLUDES

- SL Ceiling Mic 2
- Mounting instructions
- Drilling template

ACCESSORIES

SL CM FB	Mounting bracket	Art.-No. 506846
SL CM EB US	Extension brackets	Art.-No. 508528
SL CM EB 625	Extension brackets	Art.-No. 508290
SL CM SK	Suspension kit	Art.-No. 508291



TeamConnect Ceiling Medium

Ceiling microphone array (Firmware \geq 1.2.7)

INSTALLATION VARIANTS



Surface Mounted

mounted directly below the ceiling

TCC M-S is used to surface mount or suspend the TeamConnect Ceiling Medium. It comes with a black or white TeamConnect Ceiling M and matching housing.



Suspended

suspended from the ceiling

The TCC M SK Ceiling Mic Suspension kit is for use when installing the TeamConnect Ceiling Medium in high-ceilinged rooms. It consists of three 16.4 ft (5m) steel cables that can be adjusted to fit the required installation height.



Flush Mounted

installed flush in a grid ceiling

The TCC M-F Flush Mount Kit is used to install the TeamConnect Ceiling Medium flush to the ceiling. It comes with a TeamConnect Ceiling M and flush mount accessories.



Ceiling Tile

Installed flush with mounting plate in a grid ceiling

The TCC M CT ceiling installation set is used for installation in suspended grid ceilings. It is supplied with a TeamConnect Ceiling Medium and a square front plate (in a 2-foot or 60 cm version).

PORT-INFORMATION

Application layer

Port	Protocol	Service	Product
443	HTTPS	Web UI	Sennheiser Control Cockpit
443	HTTPS	SSC update service	Sennheiser Control Cockpit

Transport layer

Port	Protocol	Service	Product
22	SCP/SSH	Certificate management	TeamConnect Ceiling Medium
443	TCP	Firmware update	TeamConnect Ceiling Medium
443	TCP	SSC Sound Control Protocol v2	TeamConnect Ceiling Medium
5353	UDP	mDNS (Multicast 224.0.0.251)	TeamConnect Ceiling Medium



TeamConnect

MAS 1 TC | MAS 2 TC - Logic control buttons

FEATURES

- Rugged mute and hook button
- Unobtrusive and timeless design
- Bi-color status indication
- Made in Germany



Elegant and low-key in its appearance, the sturdy MAS 1 TC and MAS 2 TC logic control buttons make logic control a breeze. Connected to the SL Mic Hub 1 the buttons can control the mute and hook logic functions. For clear status indication the MAS 1 TC comes with a bi-color status indicator.

DELIVERY INCLUDES

- logic button
- Connection cable
 - MAS 1 TC: XLR-5F / Terminal connector 7-pin, length 3 m
 - MAS 2 TC: XLR-5F / Terminal connector 6-pin, length 3 m
- Mounting material
- Quick Guide
- Safety Guide

ARCHITECT'S SPECIFICATION

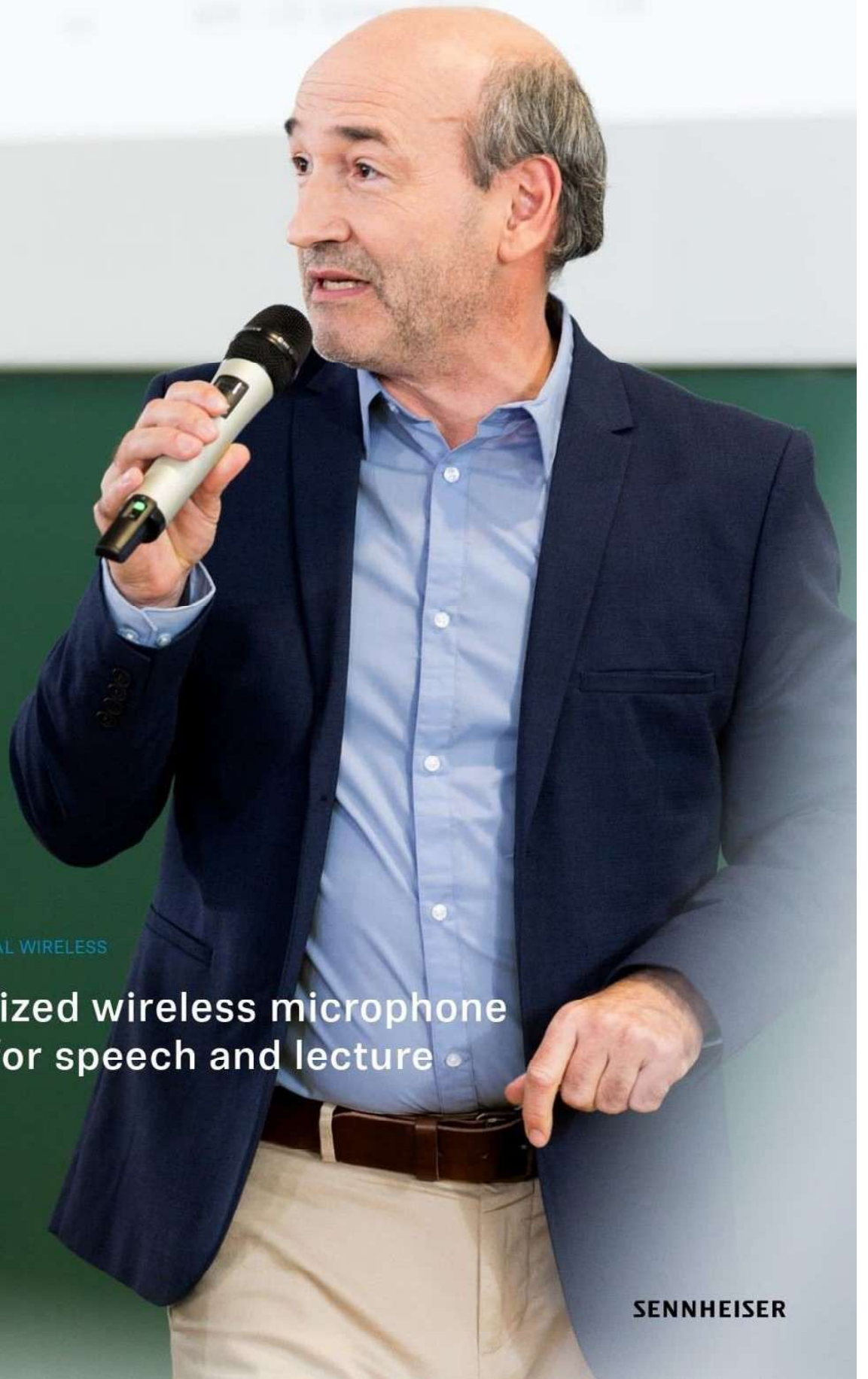
The sturdy logic buttons shall be designed for use with the SL MIC HUB 1 in TeamConnect conferencing applications. A bi-color LED ring shall be provided for status indication. Both buttons shall be connected with a 5-pin XLR cable of approx. 3 m length, terminating in a 7-pin terminal connector (MAS 1 TC) or 6-pin terminal connector (MAS 2 TC). Both buttons shall have an M20 thread. The logic control buttons shall operate on 5V. The TTL levels for LED activation shall be 12V. Dimensions shall be 28.5 mm (1.12") in diameter and 81 mm (3.19") in total height. The installation height shall be 8 mm (0.31"). Weight shall be 60 grams (2.15 oz). Operating temperature shall range from -10 °C to +50 °C (+14 °F to +122 °F).

The logic buttons shall be the Sennheiser MAS 1 TC and MAS 2 TC.

SPECIFICATIONS

Supply voltage	5 V (12 mA max.)
Connector	XLR-5M
Pin assignment XLR-5M out	1 = Switch 2 = Switch 3 = LED red - 4 = LED green - 5 = LEDs +5 V in
LED light ring color	red / green
TTL levels for LED activation	12 V

Current consumption LED ring	12 mA
Weight	60 g
Height	81 mm (8 mm above surface)
Diameter	28.5 mm
Thread	M 20
Operating temperature	-10 ° to +50 °C



SPEECHLINE DIGITAL WIRELESS

**IT-optimized wireless microphone
system for speech and lecture**

SENNHEISER



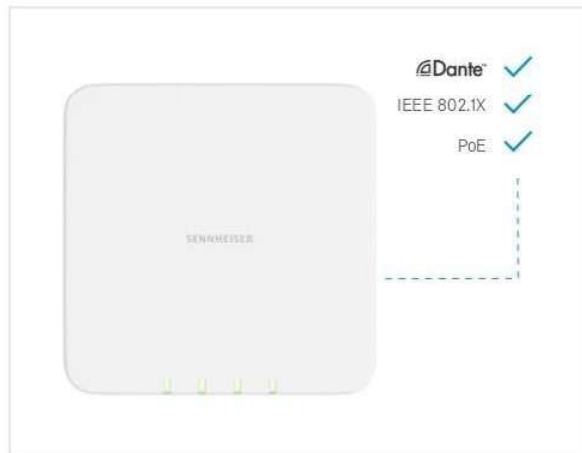
SPEECHLINE DIGITAL WIRELESS

IT-optimized wireless microphone system for speech and lecture

SpeechLine Digital Wireless is a digital wireless microphone system for speech and lecture. It is designed and optimized for **university and corporate use**. Thanks to its broad product portfolio, the system is particularly versatile and can be adapted to the requirements of individual applications.

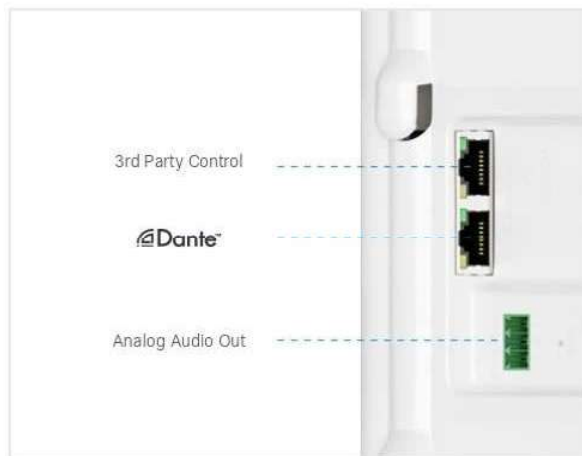
Long battery life and easy end-user operation make SpeechLine Digital Wireless a real workhorse for daily continuous use.

Our goal was to make the daily work of IT and AV managers easier. With the introduction of the new **SpeechLine Multi-Channel Receiver**, SpeechLine Digital Wireless presents the perfect audio solution for **IT integration**. The digital microphone system supports the latest IT standards, numerous connectivity such as Dante™ and PoE and can be completely remote-controlled with the **Sennheiser Control Cockpit software**.



Packed with state-of-the-art IT standards

Equipped with the **latest IT standards**, the new SpeechLine Multi-Channel Receiver meets the demands of IT managers and integrators around the world. It provides **IEEE 802.1X authentication** for easy and safe network deployment as well as **PoE** and **Dante™** straight out of the box.



Compatible with existing IT & AV infrastructure

Integrate the SpeechLine Digital Wireless microphone system into any existing **AV infrastructure**, thanks to **analogue audio outputs** of the Multi-Channel Receiver and Rack Receiver. The multi-channel receiver also features an **integrated auto mixer** and **digital audio outputs** for effortless integration into your existing **IT infrastructure** through up to **two Dante™ ports**. Our **3rd party control protocols** and **plugins** enable interoperability with other systems.



Secure operation

With SpeechLine Digital Wireless, your confidential conversations are encrypted with **AES 256-bit** and remain protected. Thanks to the **IEEE 802.1X authentication**, all SpeechLine Multi-Channel receivers can be **easily and securely** integrated into your network. The two RJ45 ports can be individually configured: **split the control and audio** to separate networks for **more security** or use both ports in a **redundant Dante™ network** for **maximum reliability**. Manage your Dante™ setup securely with the **Dante Domain Manager™**.

Seamless setup & maintenance



Stephen Dishon,
Development Team
Supervisor

*"The product fulfills its product promise, the investment is worthwhile [...] automatic search for free frequencies in the 1.9 GHz frequency band (DECT) works well."
- "No frequency problems at all"*



THE UNIVERSITY
of EDINBURGH



Outstanding Battery Management

With SpeechLine Digital Wireless, empty batteries are a thing of the past. With **15+ hours of battery life**, SpeechLine Digital Wireless microphones are ready for even the longest working day. The **network charger** serves as a convenient storage device for the microphones that are currently not in use. Sennheiser Control Cockpit provides a full overview of the **battery status** of all microphones on the campus at **all times**.



Dedicated to speech

SpeechLine Digital Wireless is made for the spoken word. Speech optimized **Sennheiser microphone capsules** and built-in equalizers with presets for female and male voices ensure **optimal speech intelligibility** in every situation. The SpeechLine Multi-Channel Receiver automatically mixes multiple speakers at the same time with an integrated **Automatic Audio Level Management** so that each person can be clearly understood.



No hardware interaction required

All SpeechLine Digital Wireless microphones are very **easy to use**. The presenter simply takes the microphone out of the charging station and is immediately ready to go. The end user does not need to have **access to the receiver**. Avoid classic user errors by installing the receiver in a **not publicly accessible location**. For the Rack Receiver, for example, this would be a lockable IT or AV rack. The Multi-Channel Receiver can be mounted easily and unobtrusively on the wall or ceiling.

A future-proof investment



Jens H. H. Nielsen,
IT/AV Supporter

“Handling is extremely easy, the products work perfectly. The transmission range is also excellent and the capacity of the integrated rechargeable batteries has so far been sufficient for every event.”

CBS



COPENHAGEN BUSINESS SCHOOL
HANDELSHØJSKOLEN



System

Technical data

With its sophisticated portfolio of different microphone types and accessories like chargers, lavalier and headmics, SpeechLine Digital Wireless offers a complete system of perfectly combinable advanced audio technology items.

AF frequency response	20 to 20,000 Hz
Dynamic range	> 120 dB (A)
THD (1 kHz)	typ. 0.1 %
Audio sampling	24 bit/48 kHz
Signal-to-noise ratio	> 90 dB (A)
Encryption	AES 256
RF frequency ranges	- 3 1,880 to 1,900 MHz (EU, IN/UK, MY, HK, SG/AU) - 4 1,920 to 1,930 MHz (US, CA/Latin America) - 5 1,893 to 1,906 MHz (JP) - 6 1,880 to 1,895 MHz (TW) - 7 1,910 to 1,920 MHz (BR)
Modulation	GFSK with back channel
Transmission method	TDMA space diversity
Latency	19 ms
Temperature range*	relative air humidity max. 95 %
Operation:	-10 °C to +55 °C
Storage:	-20 °C to +70 °C

* The temperature range is influenced by the battery characteristics.



SL MCR DW

Technical data

The SpeechLine Multi-Channel Receiver combines highest connectivity, easiest controllability and clean design in a small unobtrusive housing. It is available in a 2 or 4 channel version to offer the best solution for every application and every meeting room size.

RF sensitivity	< -90 dBm
RF output power back channel	adaptive or manual, up to 250 mW (country-specific)
Network protocol	Media Control Protocol, UDP IPv4 (DHCP, Manual)/IPv6, mDNS (switchable)
Power supply	PoE IEEE 802.3af Class 3
Audio outputs	One 3-pin socket (suitable for Phoenix Contact MCVW 1.5-3-ST-3.81) Two Dante™ Digital Audio Network sockets (RJ-45)
Weight	
incl. Wall Mount Adapter	approx. 650 g (1.4 lbs)
excl. Wall Mount Adapter	approx. 560 g (1.2 lbs)
Dimensions (incl. Wall Mount Adapter)	180 x 180 x 45 mm (7.08" x 7.08" x 1.77")
Operating temperature	-10 °C to +45 °C (14 °F to 113 °F)
Storage temperature	-20 °C to +70 °C (-4 °F to 158 °F)
Relative air humidity	max. 95 %



SL Bodypack DW

Technical data

The robust SL Bodypack DW is compatible with all Sennheiser microphones such as SL Headmic 1 or MKE 1.

RF output power	adaptive, up to 250 mW (country-specific)
AF frequency response	
Mic	50 to 20,000 Hz
Line	20 to 20,000 Hz
Max. input level	
Mic	2.2 V RMS
Line	3.3 V RMS
Line input impedance	1 M Ω
Input sensitivity	automatic sensitivity adjustment
Power supply	
Accupack	BA 30 (Li-Ion, 3.7 V)
Batteries	2 x AA size battery (1.5 V)
Operating time	
Accupack	typ. 15 h
Batteries	typ. 10 h
Display	LCD
AF connection socket	3.5 mm jack socket, lockable connector assignment:
Dimensions	100 x 65 x 24 mm (3.94" x 2.56" x 0.94")
Weight (w/o accupack)	approx. 88g (0.2 lbs)



SL Boundary 114-S DW

Technical data

The wireless SL Boundary 114-S DW is optimized for voice transmission in conference rooms and offers high flexibility due to the complete absence of cables.




RF output power	adaptive, up to 250 mW (country-specific)
AF frequency response	40 to 20,000 Hz
Pickup pattern	cardioid
Dynamic range	< 100 dB(A)
Microphone sensitivity	10 mV / PA
Power supply	BA 40 accupack (Li Ion 3.6 V)
Operating time	typ. 13 h
Temperature range	
Operation	10 °C to 45 °C (50 °F to 113 °F)
Storage	-20 °C to 70 °C (-4 °F to 158 °F)
Dimensions	114 x 85.3 x 30.8 mm (4.49" x 3.36" x 1.21")
Weight (w/o accupack)	approx. 208 g (0.45 lbs)



CHG 2W

Technical data

The CHG 2W is a wireless power transmitter. It provides convenient wireless charging. It is compatible with SL Tablestand 133-S DW, SL Tablestand 153-S DW and SL Boundary 114-S DW.




Input voltage	12 V 
Input current	1.67 A
DC connection	
Charging voltage	5 V 
Charging current	max. 1 A
Compatible devices	SL Boundary 114-S DW SL Tablestand 133-S DW SL Tablestand 153-S DW
Charging time for full charge	
SL Tablestand 133-S DW	on: 5 h / off: 3 h
SL Tablestand 153-S DW	on: 5.5 h / off: 3 h
Temperature range	
Operation	5 °C to 35 °C (41 °F to 95 °F)
Storage	-40 °C to 80 °C (-40 °F to 176 °F)
Dimensions	278 x 190 x 10 mm (10.9" x 7.5" x 0.4")
Weight	approx. 525 g (1.15 lbs)



CHG 2

Technical data

The CHG 2 two-bay charger makes battery management for two devices really easy. The mobile transmitters, while not in use, are charged in the two charging bays. The microphones are always ready to use.

Input voltage	12 V 
Input current	max. 1100 mA
DC connection	
Charging voltage	5 V 
Charging time for full charge at 20 °C	100 % = approx. 160 min = green
Temperature range	
Operation	0 °C to 45 °C (32 °F to 113 °F)
Storage	-20 °C to 70 °C (-4 °F to 158 °F)
Relative air humidity, non-condensing	Operation: 25 % to 95 % Storage: 5 % to 95 %
IP protection class according to IEC/EN 60529	IP2X
Dimensions	175 x 135 x 93 mm (6.89" x 5.31" x 3.66")
Weight	approx. 375 g (0.83 lbs) (without power supply unit)



	MME 865-1	MKE 1	SL Headmic 1
Microphone type	pre-polarized condenser microphone		
Sensitivity	1.6 mV/Pa	5 mV/Pa	5 mV/Pa
Pick-up pattern	super-cardioid	omni-directional	omni-directional
Max. SPL	152 dB SPL	142 dB SPL	142 dB SPL




	ME 36 B	MEG 14-40 B	MEG 14-40-L-II B
Microphone type	pre-polarized condenser microphone		
Sensitivity	18 mV/Pa	15 mV/Pa	15 mV/Pa
Pick-up pattern	hypercardioid / lobar	cardioid	cardioid
Max. SPL	130 dB SPL	130 dB SPL	130 dB SPL



CHG 4N

Technical data

The CHG 4N is a network enabled charger featuring four individual charging bays. The flexible network interface provides IPv4 and IPv6 compatibility for seamless integration. All settings and status information can be monitored and remote controlled with the Sennheiser Control Cockpit.

Input voltage	12 V 
Current consumption	2.5 A
Network socket	RJ 45
Network protocol	Media Control Protocol IPv4 (DHCP, manual) / IPv6
Charging bays	4
Charging voltage per bay	5 V
Charging current per bay	1 A
Charging status indicator	4 LEDs per bay (red, yellow, green, green)
Charging time for full charge	
SL Handheld DW	2 h
SL Bodypack DW	2 h
Operating temperature	0 °C to 45 °C (32 °F to 113 °F)
IP protection class according to IEC/EN 60529	IP2X
Dimensions	270 x 100 x 102 mm (10.6" x 3.9" x 4")
Weight	approx. 1100 g (2.23 lbs)



SL Tablestand 133-S / 153-S DW

Technical data

The wireless SL Tablestand 133-S DW is dedicated to speech and optimized for podium discussions and lectures. The wireless SL Tablestand 153-S DW supports in addition with XLR 5 connectivity the MEG 14-40-L-II gooseneck microphone with integrated LED light ring.

Microphone connector	XLR-3F / XLR-5F
AF frequency response	75 to 20,000 Hz
Max. input level	1.7 V RMS
Input impedance	30 k Ω
Microphone sensitivity	10 mV / PA
Power supply	BA 40 accupack (Li Ion 3.6 V)
Operating time	typ. 12 h
Operating temperature	-10 °C to 55 °C (14 °F to 131 °F)
Relative humidity	max. 95 %
Dimensions	166.7 x 120.2 x 47.9 mm (65.63" x 47.32" x 18.86")
Weight (w/o accupack)	approx. 650 g (1.43 lbs)



SL Handheld DW

Technical data

The sleek but robust SL Handheld DW is optimized for speech in presentations or lectures where every word matters.

RF output power	adaptive, up to 250 mW (country-specific)
AF frequency response	50 to 20,000 Hz
Input sensitivity	automatic sensitivity adjustment
Power supply	
Accupack	BA 10 (Li-Ion, 3.7 V)
Batteries	2 x AA size battery (1.5 V)
Operating time	
Accupack	typ. 15 h
Batteries	typ. 10 h
Display	LCD
Mute switch	available
Dimensions	
Diameter	40 mm (1.57")
Length	215 mm (8.46")
Weight (w/o accupack)	approx. 262 g (0.6 lbs) (incl. microphone head)



SL Rack Receiver DW

Technical data

The stationary SL Rack Receiver DW is the easy-to-integrate core of the SpeechLine Digital Wireless system with network integration for remote monitoring and full control.

RF sensitivity	< -90 dBm
RF output power back channel	adaptive, up to 250 mW (country-specific)
Digital gain	adjustable in 6-dB steps
Mic/line level switch	-24 dB/0 dB
XLR, balanced	max. +18 dBu
RCA, unbalanced	max. +6 dBu
Audio effects	
Low cut	-3 dB at 120 Hz
Equalizer	7-band graphic equalizer with sound presets
Automatic gain control	AGC compression/expansion with automatic make-up gain function
Display	OLED
Network protocol	Media Control Protocol TCP/IP IPv4 (DHCP, Manual)/IPv6
Power supply	12 V DC
Current consumption	350 mA
AF connection sockets	XLR/2 x RCA
Antenna sockets	2 x Rev-SMA
Network socket	RJ45
DC socket for power supply	hollow jack
Dimensions	68 x 212 x 43 mm (6.61" x 8.35" x 1.69")
Weight	approx. 828 g (1.8 lbs)

Technical data

Important components
and specifications



License-free 1.9 GHz

SpeechLine Digital Wireless uses the license-free 1.9 GHz frequency range. This RF standard is also used by wireless telecommunications systems and is considered the most **future-proof** frequency band for wireless microphone systems.



No additional hardware needed

Save money on additional hardware with SpeechLine Digital Wireless. Use the **integrated DSP** with an EQ and included presets for male and female voices. Multi-Channel Receiver features an auto-mixer and **built-in antennas**.



A true cost saver

Reduce your staff costs for maintenance and servicing of your microphone system. With the **free of charge Sennheiser Control Cockpit**, time-consuming, manual workflows are now digitalized. What used to require manual operation on site can now be performed **from anywhere** at the touch of a button. The larger the setup, the greater the potential for savings.

Always ready to go



Per Mouritzen,
AV-Director

*"Pick and speak, is the motto:
what previously took hours
now takes just a few minutes"*



AALBORG UNIVERSITET



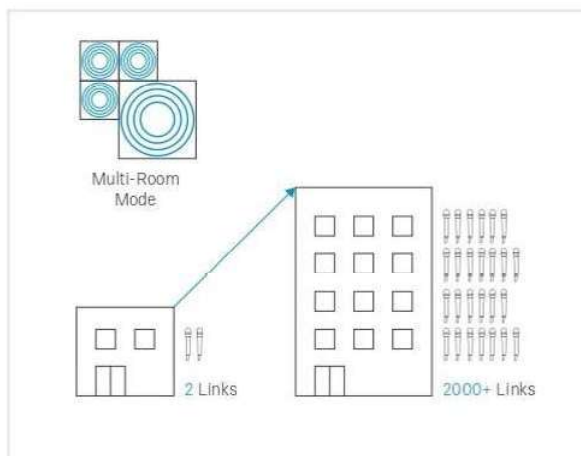
Remote control & troubleshooting

Sennheiser Control Cockpit gives you full overview and control of all devices in your entire campus-wide setup at all times. Use the Monitoring View, for example, to monitor **all relevant information** about your devices in any room in **real time**. Remote maintenance makes it easy to identify and resolve problems such as forgotten mute switches. The notification function automatically sends you information about **critical events**, such as low battery levels, via **e-mail or SMS**, and allows you to react before a failure occurs.



Advanced System Automatics

The advantages of a digital wireless system are demonstrated by our advanced system automatics. For easiest set-up, **Automatic Frequency Management** performs an on-site real-time scan on startup to find free frequencies. During operation, **Automatic Interference Management** changes seamlessly to a free channel in case of frequency disturbances. Manual voice level adjustment is no longer necessary thanks to **Automatic Audio Level Management**.



Multi-room mode

SpeechLine Digital Wireless features two operating modes. The **Automatic Mode** ensures the simplest startup and a reliable, maximum range for **up to 20** simultaneously used links (dependent on regional regulations). In **Multi-Room Mode**, the transmission power is adjusted to the room size to allow **infinite scaling options** from small meeting rooms to **large campus-wide setups**.



Perfect IT integration

Introducing the Multi-Channel Receiver

Since the introduction of SpeechLine Digital Wireless, the system has grown in popularity with AV and IT managers alike. The **easy integration** into existing IT networks and the possibility of **controlling and monitoring** the system via the free of charge **Sennheiser Control Cockpit** software have been the major trend-setting features.

To mark another important milestone in IT optimization, we now present the **SpeechLine Multi-Channel Receiver**. The 2 or 4 channel receiver comes packed with the latest technology. It combines highest connectivity, easiest controllability and clean design in a small unobtrusive housing.

Four reasons for SpeechLine Digital Wireless

Perfect IT integration

The system supports the most common IT standards and integrates smoothly into your existing IT infrastructure. Numerous connection options including two ethernet connectors with support for **Power over Ethernet (PoE)** and **Dante™** make the system the ideal enhancement for your campus or corporate network. SpeechLine Digital Wireless can be operated as a stand-alone system or integrated into a **3rd party** environment using our **plug-ins and protocols**.

Always ready to go

The perfect microphone system simply works, everytime. The use of SpeechLine Digital Wireless requires no introduction or explanation. As soon as the microphone is taken out of the **network monitored charging station**, it is immediately ready to use. With a **battery life of 15 hours**, the microphones are ready for even the longest workday.

Seamless setup & maintenance

With **Sennheiser Control Cockpit**, you will always have a complete overview and control of your campus-wide setups. Time-consuming manual workflows such as checking battery levels can be completed **digitally** in no time. Advanced system automation eliminates the need for manual frequency and interference management. This makes SpeechLine Digital Wireless a **real time and money saver**.

A future-proof investment

SpeechLine Digital Wireless operates in the **license free 1.9 GHz** frequency band and is a future-proof investment. The free Sennheiser Control Cockpit opens up an important path to your future. **Digital workflows** for monitoring and controlling your entire system help you to **reduce maintenance and servicing costs**.

Dedicated to speech - made for your needs

SpeechLine Digital Wireless is made for daily use in universities and corporations. **Excellent speech intelligibility** and versatility are essential for our customers in these environments. SpeechLine Digital Wireless meets these demands - from small setups to large **campus-wide installations**. Due to our broad product portfolio, the system can be configured for every application and individual needs.



Education



Corporate





SpeechLine Wired

MEB 114 (-S) - Boundary Microphone

FEATURES

- Award winning design
- Optimized for speech
- Sturdy housing
- Made in Germany

The sturdy on-table boundary layer microphone MEB 114 constitutes an improvement for any conferencing system. In its -S version it additionally features a programmable microphone button (PTT, PTM, toggle on/off, permanent on), and a bi-color LED ring for status indication.

A camera or media control system can be triggered via the TTL logic out on the bottom side. Thanks to its rugged housing and its high-quality microphone capsule the MEB 114 ensures the best speech intelligibility.

**MEB 114****MEB 114-S**

DELIVERY INCLUDES

- Boundary microphone
- Quick guide
- Safety guide
- Microphone cable (3 m)

ARCHITECT'S SPECIFICATION

The microphone shall be a cardioid pre-polarized condenser on-table boundary layer microphone designed for use in conference applications. The high-quality microphone capsule shall be optimized for speech intelligibility. The frequency response shall be 40 Hz - 20,000 Hz and sensitivity shall be 10 mV/Pa. Nominal impedance at 1 kHz shall be 200 Ω . Equivalent noise level shall be 26 dB(A) or 39 dB weighted as per CCIR 468-3. Dynamic range shall be 111 dB (A). Maximum SPL shall be 140 dB.

The microphone shall provide a tiny 3-pin XLR. The microphone shall operate on 48 V phantom power. Current consumption shall be 1.5 mA. The microphone shall have a rugged housing; dimensions shall be 85 x 100 x 25 mm (3.35" x 3.94" x 0.98"). Weight shall be 291 grams (10.27 oz). Operating temperature shall range from -10 °C to +50 °C (+14 °F to +122 °F).

The microphone shall be the Sennheiser MEB 114.

The Sennheiser MEB 114 microphone shall also be available as a variant (-S) with a programmable microphone button (Toggle on/off, PTM, PTT and permanent on) and a bi-color LED ring for status indication. The current consumption of the -S version shall be 5.3 mA.

The microphone shall provide a TTL logic connector with logic inputs and outputs. The logic output voltage shall be high level > 2.4 and low level < 0.4 V, the logic input voltage shall be high level > 2.0 V and low level < 0.8 V.




The microphone shall be the Sennheiser MEB 114-S.



SpeechLine Wired

MEB 114 (-S) - Boundary Microphone

SPECIFICATIONS

	MEB 114	MEB 114-S
Transducer principle	pre-polarized condenser microphone	pre-polarized condenser microphone
Acoustic principle	boundary layer microphone	boundary layer microphone
Pick-up pattern	cardioid	cardioid
Frequency response	40 Hz – 20 kHz	40 Hz bis 20 kHz
Nominal impedance at 1 kHz	200 Ohm	200 Ohm
Sensitivity	10 mV/Pa	10 mV/Pa
Maximum sound pressure level	140 dB	140 dB
Equivalent noise level	29 dB (A)	29 dB (A)
Equivalent noise level weighted as per CCIR 468-3	39 dB (CCIR)	39 dB (CCIR)
Dynamic range	111 dB (A)	111 dB (A)
Phantom power	P 24-48	P 24-48
Current consumption	1.5 mA	5.3 mA
Connector	tiny XLR 3	Mic: tiny XLR 3 Logic: clip contact
Pin assignment	1 = gnd 2 = Audio + 3 = Audio -	1 = gnd 2 = Audio + 3 = Audio -
Logic connector		trigger signal at the logic connector:  Logic in (LED control)  GND  Logic out (switch signal)
Logic out		high level output voltage > 2.4 V low level output voltage > 0.4 V
Logic in		high level input voltage > 2.0 V low level input voltage > 0.8 V
LED light ring color		red / green
Microphone modes		Toggle on/off Push to mute Push to talk permanent on (external LED control)
Weight	291 g	291 g
Dimensions (WxDxH)	85 x 100 x 25 mm (3.35" x 3.94" x 0.98")	85 x 100 x 25 mm (3.35" x 3.94" x 0.98")
Operating temperature	-10 °C to +50 °C (+14° F to +122° F)	-10 °C to +50 °C (+14° F to +122° F)

Xilica Solaro QR1



Xilica Solaro QR1 is the only micro-format, configurable digital signal processor that enables significant cost savings by matching product features to application requirements while also allowing for flexible mounting scenarios. Coming in a quarter rack chassis with PoE, the QR1 is easily surface-mountable behind a display or under a table. With a powerful dual core processor, built-in 4x4 Dante/AES67 audio, and license-activated HearClear™ AEC, the Xilica Solaro QR1 is a perfect audio enhancement to meeting rooms and classrooms using Unified Communications (UC) applications such as Microsoft Teams, Zoom, Cisco WebEx or Google Hangouts.

Xilica Solaro QR1 can hold up to eight (8) integrator-configurable Solaro I/O cards, allowing the DSP to be configured to the exact needs of the space. The DSP also features advanced signal processing capabilities including signal routing and mixing, equalization, filtering, dynamics, and delay; all configured through Xilica Designer drag-and-drop software.

The Solaro QR1 can be controlled via Ethernet using Xilica XTouch50 and XTouch 80 capacitive touch controls, Xilica Lucia networked wall panels, or with any third-party control system (Crestron®, AMX®, others). In addition, the Solaro QR1 can also be configured to control other devices using industry-standard Lua scripting.

BENEFITS

- ▶ Small, surface-mountable form factor with Power over Ethernet allows for simple and discreet installation under tables and behind displays in meeting rooms and classrooms without equipment racks
- ▶ Compatibility with soft-codec platforms including Microsoft Teams, Zoom and Cisco WebEx with select mute synchronization over USB
- ▶ Modular I/O drives significant cost-savings with product-to-requirements matching and reduced inventory burden
- ▶ Engineered from premium components, aesthetic design by StudioX™ and complete with Xilica's Five Year Limited Warranty

FEATURES

- ▶ Micro-format, quarter-rack chassis with surface mount brackets included
- ▶ PoE powered with optional external PSU for optimal flexibility and redundancy
- ▶ Modular card frame with up to eight (8) I/O cards. Flexibility for any card type, in any card slot, in any order
- ▶ Built in 4x4 Dante networked audio and AES67-compliant
- ▶ Software-activated HearClear™ AEC license, providing eight channels at 250ms, or 16 channels at 100ms delay
- ▶ Guaranteed under the Xilica Five Year Limited Warranty
- ▶ Integrated control engine for control of third-party products and ecosystem partners over Ethernet, with built-in Lua scripting
- ▶ Control by Xilica XTouch touch controls, Lucia wall panels, or by PC, Mac, iOS and Android
- ▶ Expertly-designed modules for third-party control systems, including Crestron® and AMX®
- ▶ Configured and commissioned through Xilica Designer, the industry's first cross-platform SP configuration software that works natively on both Windows and Mac.

ENGINEERING SPECIFICATIONS

The digital signal processor shall be quarter-rack form factor and deliver 4x4 networked audio channels over AES67-compliant Dante™, utilizing two dedicated 1000Mbps RJ45 ports supporting Cat5e and above. The processor shall feature eight (8) integrator-configurable card slots accepting any combination of analog audio input (with selectable 48V), analog line output, selectable GPIO, relay control, AES/EBU digital audio, and USB via 2x2 send/receive over Type-B socket. Within a single processor, the device shall provide up to 16 local channels of analog audio, and 32 channels of local GPIO, with expansion permitted via proprietary I/O expansion devices and generic third-party Dante devices. The device shall feature an open-architecture, 40-bit floating point processor operating on a Linux platform. The device front panel shall include clearly-legible LEDs for status indication, and a recessed, tactile IP reset button. The processor shall feature signal processing algorithms, including but not limited to various forms of mixers, equalizers, filters, crossovers, dynamics/gain controls, routers, room combiners, and delays, alongside integration with soft-codec platforms. The processor shall offer acoustic echo cancellation via software-based licensing. The processor shall feature an internal control engine with easily understandable API, to enable control of, and from, third-party products and control systems. The processor shall feature native compatibility with propriety touch controls, networked wall panels, networked computers running specific software, or networked iOS and Android devices. Additionally, the processor shall offer Lua scripting capability for advanced system command. The program memory shall be nonvolatile and provide program security should power fail. The processor shall comply with FCC emission requirements and shall be compliant with the RoHS directive. The processor shall be the Xilica Solaro QR1.

TECHNICAL SPECIFICATIONS

General	Dimensions (HWD)	1.65" x 4.25" x 6.00" (43 x 108 x 152mm)
	Rack Mounting	Mounts onto standard 1U rack shelf using surface-mount brackets
	Weight	2.2 lbs / 1 kg (chassis only)
	Regulatory Compliance	FCC Part 15 B (US), CE (Europe), RoHS Directive (Europe), EN 55032, EN 61000-3-2, EN 61000-3-3, EN 55035, CB Scheme
	Included Accessories	Two (2) black surface-mount brackets
	Optional Accessories	Solaro I/O Option Cards: - XC-SML: Two-Channel Analog Mic/Line Input Card - XC-SLO: Two-Channel Analog Output Card - XC-SDA: Two-Channel AES/EBU I/O Card - XC-SUB: Two-Channel USB I/O Card - XC-SGP: Four-Channel GPIO Card - XC-S2R: Two-Channel Relay Card
	Warranty	Xilica Five Year Limited Warranty
Power Requirements	Power over Ethernet	PoE (Power over Ethernet), IEEE 802.3af, class 0
	Local Power	+12VDC / 2A via external power supply (can operate as redundant power to PoE)
	Power Consumption	60W maximum
Environmental	Temperature (Operating)	32-104°F (0-40°C)
	Humidity (Operating)	0-98%, non-condensing
	Heat Dissipation (Typical)	44 BTU/hr
	Ambient Noise	Negligible (fanless device)
Connectors	Power	3.5 mm barrel connector (for 12V/2A external PSU)
	Ethernet	(1) RJ45 with Power, Data indicator lights, Power over Ethernet
	Dante	(1) RJ45 with Link, Data indicator lights
	USB (Recovery)	(1) Micro-USB (side mounted), for device recovery
	Input/Output Card Slots	Eight (8) card slots, user configurable
Audio	Audio Networking	Dante™ 4x4 bidirectional, AES67-compliant
	Acoustic Echo Cancellation	Xilica HearClear™ AEC, activated via software license. 250ms (eight channels) and 100ms (16 channels)

XILICA®

SOLARO FR1



Deliver premium collaboration experiences without the cost. Solaro FR1 is a 1U 16-card-slot DSP with modular I/O functionality that can evolve to meet your future requirements, while benefiting from the processing power to drive multiple rooms over an installed CatX network. Xilica's open-architecture digital signal processor can be populated with any combination of Solaro Series I/O card, offering capabilities including analog audio, USB (with volume/mute HID support), GPIO, relay control and AES/EBU digital audio. Incorporating the optional XC-CTODN module for networked audio, Solaro FR1 can handle up-to 64x64 bi-directional channels of audio over Dante™, using standard CatX cable with no proprietary switches. With the capability to grow as you need, Solaro FR1 is a multi-purpose, scalable signal processor suited to most medium-to-large applications including multi-room conferencing, education spaces, and mass communication.

Offering pre-integrated modules from select *Technology Vendor Partners*, Xilica Solaro FR1 can drive products across your rooms from lighting to displays with no code and minimal setup time. For additional devices, Solaro FR1 supports Lua scripting without fees or licenses, and offers drag-and-drop design of graphical user interfaces (GUIs) within the programming software. These GUIs readily display on Xilica's range of IP-based user interface products, including XTouch touch-controls and Lucia wall remotes, which are networked to Solaro FR1 over standard CatX cable. Additionally, iOS/Android control is offered alongside integration with Crestron and AMX systems.

With up-to 32 channels of local analog audio, or 64 channels of local GPIO in a single chassis, Solaro FR1 is self-sufficient for most common medium-sized applications with option to expand I/O count over Dante using the Solaro XIO 16 expander. Solaro FR1 offers license-activated HearClear™ AEC for ultra-low-noise conferencing, and signal processing algorithms including routing and mixing, equalization, delay and dynamics.

BENEFITS

- › Deliver a premium collaboration experience at lower cost through centralized processing of multiple rooms using an existing installed CatX network.
- › Support BYOD in collaboration spaces with Gio USB and Gio Bluetooth connectivity, and create a superior user-experience with Microsoft Teams mute/volume sync for USB peripherals.
- › Eliminate third-party control systems with no-code programming and leverage pre-built DSP designs for turn-key deployment.
- › Lower total-cost-of-ownership with agile, modular I/O that scales to meet functional demand.
- › Harness Xilica HearClear™ acoustic echo cancellation to eliminate noise and echo in conferencing.

ENGINEERING SPECIFICATIONS

The digital signal processor (DSP) shall be open-architecture in configuration and be housed in a rack-mountable 19-inch, 1U chassis. It shall offer 16 user-configurable card-slots for analog audio, USB, GPIO, relay and AES/EBU digital audio support. Additionally, it shall provide optional Dante audio networking (with XC-CTODN) at 64x64 channels, and be compliant with AES67.

The DSP shall feature a dual-core Linux processor with 40-bit floating point architecture. Software licensing shall provide optional acoustic echo cancellation with Xilica HearClear technology. An internal control engine shall be present to provide third-party command execution via API and support the Lua scripting language. The DSP must support proprietary Xilica control products including XTouch and Lucia, and be expandable with the Solaro XIO 16 frame over a Dante network.

Additionally, the DSP must feature include advanced signal processing algorithms including (but not be limited to) various forms of mixers, equalizers, filters, crossovers, dynamics/gain controls, routers, room combiners, and delays. The program memory shall be nonvolatile and provide program security should power fail. The DSP shall be ETL marked and comply with UL/CSA/CE safety requirements, FCC emission requirements and the RoHS directive. The DSP shall be the Xilica Solaro FR1.

TECHNICAL SPECIFICATIONS

Electrical	
THD+N (22Hz to 22kHz)	0.002% (1kHz @ +4dBu)
EIN	<125dBu, unweighted (20Hz to 20kHz)
Dynamic Range	110dB, unweighted
Propagation Delay	4ms
Crosstalk, input to input, 1kHz	<110dB
Sampling Rate	48kHz
A/D-D/A Converters	32-bit
Acoustic Echo Cancellation	Requires HearClear™ license; 250ms latency at eight channels, 100ms at 16 channels
BTU/Heat Load	205 BTU/hr
Processor Type	40-bit floating point
Phantom Power	+48VDC (with XC-SML)
Power Supply	90–240 VAC (50–60Hz) via internal power supply with IEC socket
Power Consumption	<60W
Ambient Operating Temperature	32–104°F (0–40°C)
Humidity	0–98%, non-condensing
Altitude	0–6,600 feet (0–2000 Meters) MSL
Network Connections	Without XC-CTODN: 1x RJ45 (≥Cat 5e) for control. With XC-CTODN: 3x RJ45 (≥Cat 5e) including dual dedicated 1000Mbps Dante™ connections and separate Ethernet port for control
USB (with XC-SUB)	Bit depth: 16-bit Number of channels: 2x2, send and receive Driver sample rate: 48kHz Card sample rate: follows DSP settings Connector: USB B, female
Dante™	Requires XC-CTODN; 64x64 bi-directional (primary, secondary) with dual NIC; AES67

Mechanical

Card Slots	16 user-configurable
Display(s)	Single OLED display at front of device
Controls, Service & Indicators	Up/Select/Down buttons. Recessed IP reset. Factory service micro-USB.
Weight	11lbs; 5kg
Dimensions	Height: 1.75" / 44mm Width: 19" / 483mm Depth: 12" / 305mm
Mounting	Standard 19" rack; occupies 1U

General

Compliance	CE, FCC Part 15B, Industry Canada ICES-003:7, Intertek ETL (US, CA), RoHS, REACH
Warranty	Xilica Five Year Limited Warranty
Part Number(s)	2200–001–0104 (FR1, without XC-CTODN); 2200–001–0105 (FR1-D, with XC-CTODN)

Specifications, where necessary, measured with XC- I/O card.

Confidea FLEX Mike

Configurable Conference Unit with Touch Screen



Description

Confidea FLEX Mike is Televic's all-in-one tabletop conference unit with an integrated 5.2" touch screen with fingerprint coating. It combines a slim, non-intrusive, contemporary design offering extended functionality with effortless ease of use.

The Confidea FLEX Mike was designed to offer one solution that meets different user needs. Using the Plixus web server, you can easily configure the unit as chairperson, delegate or unit for double use. Or even unlock additional functionality over time.

Extended Functionality in A Single Unit

The Confidea FLEX Mike was designed to offer one solution that meets different user needs. The unit has one large physical button that can change its functionality based on the applied configuration. Using the secret until lit principle, different functions light up indicating which actions are possible with the button. Using this principle, the button can be used for delegate, chair person or double use delegate.

Furthermore, functionality can be unlocked based on licenses. This means that over time customers can unlock extra functionality without the need to re-invest in new hardware.

The current license model contains four different options:

- » Voting
- » Identification
- » Interpretation
- » Dual Use

Advanced Participant Interaction

As chairperson, you can control different aspects of the meeting, simply using the intuitive display on the Confidea unit. It lets you start, pause meeting, and even record the meeting. Easily start and stop voting sessions, and even move to another agenda topic without the need of a computer.

As delegate you are welcomed to the meeting, you can see which agenda item is being discussed or see how much speech time you have left. You can even see who is currently speaking and your place in the request list.

During voting sessions, you can cast your vote and get a view on the voting results. Tactile feedback will be given when your vote is registered by means of vibration.

This unit is also equipped with an NFC card reader for identification. This is ideal for meetings with a free seating policy: the system can keep track of who is seated where.

Accessibility

As the unit uses a touchscreen, special attention has been given to visual impaired users. Tactile references are spread over the length of the screen. Functions like language selection and voting have been designed in such way that controls are mapped on the tactile references. Volume controls received a different layout of tactile reference.

Easily Integrated in the Plixus Architecture

The units interconnect in daisy chain over Cat 5e Plixus® network cabling, as all other types of units. The RJ45 connectors are hidden in the base of the unit and facing downwards guiding the cables easily into the cable entry so no cables are visible on the conference table for fixed setups. For mobile setups a cable entry is part of the unit's design.

The units can be cabled in loop so meetings can proceed in the event a cable or a unit gets defective.

What's more, the hotswap functionality of the Plixus system reduces the downtime of a unit since it is easily replaceable with a spare unit, even during an active meeting.

Finally, the units benefit from Plixus's audio processing capabilities. The result is a warm and natural sound that makes listening much more comfortable.

Features

The Confidea FLEX Mike is a sleek and stylish solution and can be set up in the blink of an eye. The input and output connections are auto-sensing and interchangeable.

Using the Plixus web server you can easily change the functionality of a unit, making it a delegate or chairperson unit, or change the license and associated functions. As a result, installation is easy, fast, and straightforward, making it the ideal system for frequently changing environments or grow in functionality over time with the needs of the customer.

Mike, the new push and lock microphone that reduces setup time, is immune for typical mobile phone interference, so delegates can leave their phones switched on during the meeting.

- » Built-in high-quality loudspeaker which is automatically muted when the microphone is active, to prevent acoustic feedback
- » Button which contains next-in-line and priority functionality when unit is configured as chairperson or two request-to-speak functions in dual use
- » Two headphone outputs with single volume control
- » Interactive display showing meeting information such as agenda topic, who is speaking, position in request list, speech timers, voting and language selection depending on activated licenses.
- » Basic meeting control for chairperson
 - › Start / stop recording
 - › Meeting state control
 - › Voting session control
 - › Agenda control

- » NFC reader
- » Card reader slot
- » Tap to log-in functionality
- » Split screen for dual delegate use
- » Service request button
- » Haptic feedback on touchscreen
- » Light sensor for automatic luminance adjustment

Connectivity

- » Push & Lock socket to connect a removable microphone.

Mike LPM	71.98.0091
Mike PLM301F	71.98.0093
Mike PLM401F	71.98.0094
Mike PLM502F	71.98.0095
Mike PLM402F	71.98.0098
Mike PLM40FF	71.98.0099

- » Two RJ 45 connectors for loop through cabling
- » Two 3.5 mm stereo jack sockets for headphones
- » Plixus-powered

Licenses and Software

- » Confidea FLEX Mike licenses:

L-Vote	71.98.1401
L-Identification	71.98.1402
L-Language	71.98.1403
L-Dual	71.98.1404

- » To fully configure, manage, and use the unit, Televic's Confero 360 or CoCon management software is required. The following standard licenses are available:

Confero 360	71.98.3000
--------------------	-------------------

or

CoCon Discussion	71.98.1101
CoCon Voting	71.98.1104
CoCon Interpretation	71.98.1107

- » To enhance the functionality of meetings and extend the features of CoCon when used with Confidea FLEX Mike, the following optional licenses are available:

CoCon Signage	71.98.1102
CoCon Authentication	71.98.1105
CoCon Import/Export	71.98.1108
CoCon Messaging/Services	71.98.1110

71.98.0091

Mike LPM

Low Profile Microphone

CONFERENCE



Description

Mike LPM is a brand-new low profile microphone of exceptional sound quality designed to give the user the possibility to view the meeting and be seen by other participants and/or the audience without any obstruction.

It also offers improved robustness and longevity thanks to a sturdy connection. Made to match the Confidea FLEX G4 habitat, Mike LPM is easy to mount. Simply push to connect it, and effortlessly remove it from the station with a single push of the unlock button. This way Mike reduces set-up and dismantle time by 66%!



After connecting the low profile microphone, the Confidea FLEX G4 unit will recognize it and adjust the audio parameters accordingly.

But there is more. When Mike speaks, everyone is all ears. The newly designed microphone provides a consistent and higher bandwidth, lower equivalent noise, and an excellent front-to-back ratio. A frequency response boost starting from 4 kHz ensures increased clarity and intelligibility. Another important advantage is the very low susceptibility to interference from mobile phones. The LED indicator on top of the microphone is dark (opaque) when switched off.

The color of the LED is configurable red or green for the inactive, active and request state.



Specifications

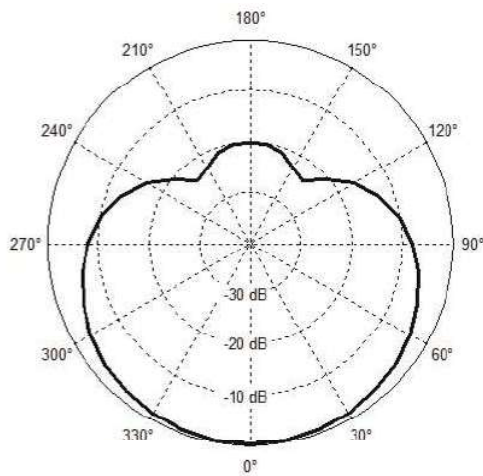
Mechanical	
Color	Black
Size	97 × 33 × 33 mm
Size packed	125 × 40 × 60 mm
Weight	50 g
Weight packed	73 g
Connector	
Type	USB-C-based microphone connector
Diameter of the connector	12 mm
Electrical	
Transducer type	Electret condenser
Operating principle	Pressure gradient

Polar pattern	Cardioid
Frequency response	125 to 15000 Hz
Sensitivity @ 1 kHz	-35 dBV/Pa
Maximum SPL @ 1 kHz	105 dB SPL
Signal-to-noise ratio referred to 1 Pa	> 74 dB
Dynamic range	> 90 dB
Equivalent noise	< 20 dB SPL (A)
Environmental	
Operating temperature	0 to 45°C / 32 to 113°F
Storage temperature	-20 to 60°C / -4 to 140°F
Humidity	Between 5 and 95%, no condensation

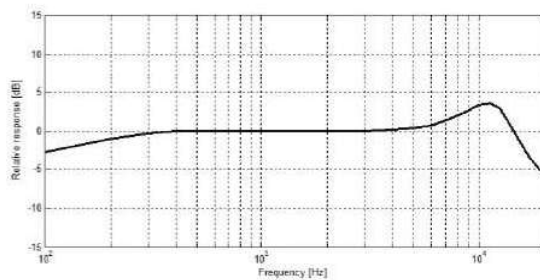
Certification

Region	Certification
Europe	CE

Polar Pattern



Frequency Response



HQ Belgium

+32 51 30 30 45

conference@televic.com

<https://www.televic.com/en/conference>

Asia

+86 21 61 48 01 23

conference@televic.com

www.televic-conference.com.cn

France

+33 3 74 09 52 76

conference-france@televic.com

www.televic-conference.fr

United States

+1 916 920 0901

conference-us@televic.com

All information copyright Televic Conference, 2025. Televic reserves the right to change this document without notice.

Version 1.4

Confidea FLEX G4

71.98.0081

Wireless Conference Unit with Touch Screen



Description

Confidea FLEX G4 is the wireless variant of the Confidea FLEX wired conference unit. It's an all-in-one wireless tabletop conference unit with an integrated 5.2" touch screen with fingerprint coating. It combines a slim, non-intrusive, contemporary design offering extended functionality with effortless ease of use.

The Confidea FLEX G4 dual battery design offers a wealth of advantages: from reducing overall system cost to maximizing system use and hot swapping batteries

Smart battery management

Wireless systems are the ideal solution for meetings that require a high degree of flexibility and portability.

For starters, each wireless unit comes with a compact Li-ion battery that offers a 12-hour autonomy on one full charge. Sufficient to run a full day of meetings.

To check if your battery is sufficiently charged as you prepare the meeting set-up, simply push the test button. A led bar will show the remaining capacity.

Let's say you are preparing for an even longer meeting. For these occasions, you can add a second battery in a separate compartment. And as you do so, just imagine the wealth of advantages:

You can reduce or spread the overall cost of your system by starting out with a single battery per unit, and purchasing the dual batteries only if or when needed.

You can charge a batch of spare batteries during the meeting to maximize the use of the system.

Actually, having a second batch of batteries stand-by in the chargers can reduce the amount of charging devices needed for your pool of batteries, ensures the system is ready whenever you want to meet and avoids having a non-usable system because you forgot to charge. This is a major advantage compared to systems that operate on a single battery.

In the event a battery runs low, a warning signal is shown on the conference unit and in the software monitoring capabilities of the access point. Simply take a fully charged battery out of the charger and plug it into the second battery compartment before removing the almost empty battery.

Doing so, the unit stays powered and does not need to reconnect to the access point making it instantly useable.

Put the almost empty battery in the charger. Within 2 hours it is fully charged again and ready for your next meeting. In only 45 minutes the battery will be charged for 50% offering six hours of meeting time.

What if a battery runs low and you don't have a fully charged spare at hand? No worries. Simply plug-in a standard charger in the USB-C connector at the back of the unit. The device will remain operational, and you can even unplug the battery to start recharging it.

During a meeting, the remaining meeting time of each unit can be monitored via the built-in browser-based software included in the access point.

Extended Functionality in A Single Unit

The Confidea FLEX G4 was designed to offer one solution that meets different user needs. The unit has one large physical button that can change its functionality based on the applied configuration. Using the secret until lit principle, different functions light up indicating which actions are possible with the button. Using this principle, the button can be used for delegate, chair person or double use functionality.

Furthermore, functionality can be unlocked based on licenses. This means that over time customers can unlock extra functionality without the need to re-invest in new hardware.

The current license model contains following options:

- » Voting
- » Identification
- » Channel selection
- » Dual Use

Advanced Participant Interaction

As chairperson, you can control different aspects of the meeting, simply using the intuitive display on the Confidea unit.

As delegate you are welcomed to the meeting or guided how to log-in with your identification card, you can see which voting item is being voted upon. You can even see who is currently speaking and your position in the request list.

During voting sessions, you can cast your vote and get a view on the voting results either during or after the voting session depending on the settings. Tactile feedback will be given when your vote is registered by means of vibration. This unit is also equipped with an NFC card reader for identification. This is ideal for meetings with a free seating policy: the system can keep track of who is seated where.

Accessibility

As the unit uses a touchscreen, special attention has been given to visual impaired users. Tactile references are spread over the length of the screen. Functions like voting have been designed in such a way that controls are mapped on the tactile references and haptic feedback is given when a touchbutton is pressed. Volume controls received a different layout of tactile reference.

Ease of setup

The Confidea FLEX G4 is a sleek and stylish solution and can be set up in the blink of an eye. Place the units on the meeting table and activate by pressing the microphone button for about 2 seconds. Plug in Mike, the new push and lock microphone concept that reduces setup time. Ready? Set? Start your meeting.

Using the built-in web server you can easily change the functionality of a unit, making it a delegate or chairperson unit, or change the license and associated functions. As a result, installation is easy, fast, and straightforward, making it the ideal system for frequently changing environments or grow in functionality over time with the needs of the customer.

Features

- » Supports WIFI5
- » Unit provides information used by the dean channel manager for frequency coordination and interference avoidance
- » Predictive error concealment algorithm masking effect of lost or damaged packets resulting in continuous audio
- » WPA2 Enterprise encryption
- » Dual antenna for optimized signal reception even in challenging and high RF reflective environments
- » Built-in high-quality loudspeaker
- » Dual battery compartment with hot swap capabilities
- » Power units via USB-C adapter
- » Software configurable microphone button for delegate, chairperson or dual use mode
- » Each unit configurable as delegate or chairperson without changing hardware configuration, simple configuration from the software.
- » Two headphone outputs
- » Interactive display showing meeting information such as voting topic, who is speaking, position in request list and voting depending on activated licenses.
- » A custom standby screen can be uploaded to personalize the units according to the customer, meeting or event.
- » Basic meeting control for chairperson
 - › Start / stop recording
 - › Meeting state control
 - › Voting session control
- » NFC reader
- » Card reader slide in slot for single use
- » Tap to log-in functionality for dual use
- » Split screen for dual delegate use
- » Haptic feedback on touchscreen
- » Light sensor for automatic luminance adjustment
- » Anti fingerprint coating on touchscreen
- » Tactile references for microphone, volume and 5 defined zones under touchscreen

L-Vote

Confidea FLEX Voting License

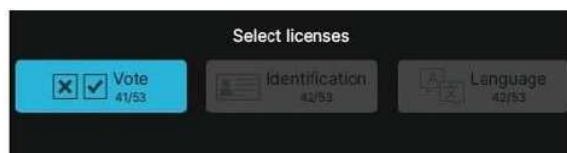


Description

Confidea FLEX is Televic's all-in-one tabletop conference unit. To unlock the different functionalities, you need to activate the correct license. **L-Vote** is the license to activate electronic voting on the unit.

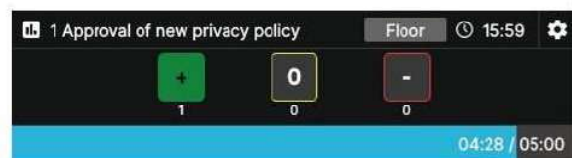
With the Confidea FLEX, voting is independent of the hardware, offering extensive voting options.

Easily manage the licenses on the unit itself in initialization mode. The unit gives a clear overview of the active licenses and the number of remaining licenses. Activating and deactivating licenses is as simple as pressing the button of the desired license.



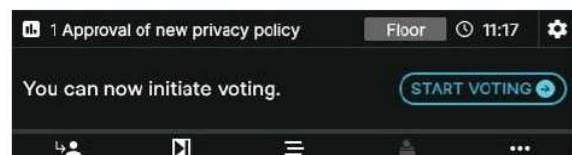
With the Confidea FLEX, voting is **independent of the hardware**, offering extensive voting options when the voting license is active. The interface of the unit shows all available voting options and meeting participants can cast their votes by pressing the buttons on the interface.

The content and the options available on the voting screen depend on the voting parameters configured in CoCon. When **voting timers** are active, the interface shows a dynamic progress bar displaying the remaining time to cast your vote. Participants can even see the voting results in real-time if the operator makes voting results visible for everyone in CoCon.



Chairperson controls

Units configured as chairperson have additional voting controls. As chairperson you have the option to start and stop the voting session from your unit*.



Features

- » Voting Timer
- » Maximum of 10 options
- » Color coded voting buttons
- » See real-time and overall voting result
- » Start and stop voting session by chairperson*

* For the Chairperson to be able to start and stop a voting session on a Confidea FLEX unit, the L-Vote license is required.

Software

To fully configure, manage, and use the voting options on the Confidea FLEX, Televic's Confero 360 or CoCon management software is required.

If used with Confero 360, the following standard license is required:

Confero	71.98.3000
----------------	-------------------

If used with CoCon, the following standard licenses are required:

CoCon Discussion	71.98.1101
-------------------------	-------------------

CoCon Voting	71.98.1104
---------------------	-------------------

To enhance the functionality of meetings and extend the features of the Confidea FLEX, the following optional licenses are available:

CoCon Signage	71.98.1102
----------------------	-------------------

CoCon Authentication	71.98.1105
-----------------------------	-------------------

L-Identification

Confidea FLEX Identification License



Description

Confidea FLEX is Televic's all-in-one tabletop conference unit. To unlock the different functionalities, you need to activate the correct license. **L-Identification** is the license to enable the use of identification badges on the unit.

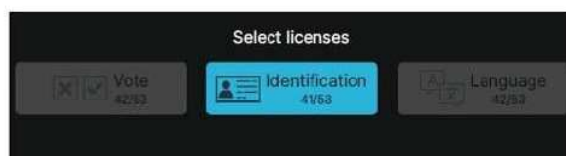
With the Confidea FLEX, the badge reader is always present on the unit but is only active when the Identification license is active.

Easily manage the licenses on the unit itself in **initialization mode**. The unit gives a clear overview of the active licenses and the number of remaining licenses. Activating and deactivating licenses is as simple as pressing the button of the desired license.

With the Confidea FLEX, the badge reader is always present on the unit but is only active when the Identification license is active.

Depending on the selected **delegate participation mechanism**, delegates can use their badge to identify themselves on a seat. The interface shows how to use the badge to log in and displays participant's names when assigned to a seat.

Welcome Romain Laurent to
Biweekly Update meeting
Insert your badge to enter the meeting



Features

- » Users identify themselves to the system using their badge
- » Animation showing how to log in
- » RFID card reader

Software

To fully configure, manage, and use the identification options on the Confidea FLEX, Televic's Confero 360 or CoCon management software is required.

If used with Confero 360, the following standard license is required:

Confero	71.98.3000
----------------	-------------------

If used with CoCon, the following standard licenses are required:

CoCon Discussion	71.98.1101
CoCon Authentication	71.98.1105

To enhance the functionality of meetings and extend the features of the Confidea FLEX, the following optional licenses are available:

CoCon Voting	71.98.1104
CoCon Signage	71.98.1102

L-Language

Confidea FLEX Language Selection License

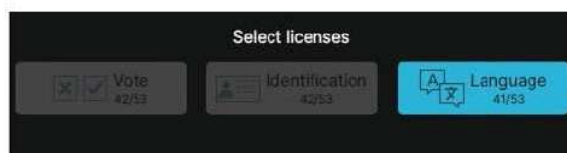


Description

Confidea FLEX is Televic's all-in-one tabletop conference unit. To unlock the different functionalities, you need to activate the correct license. **L-Language** is the license to activate language selection on the unit.

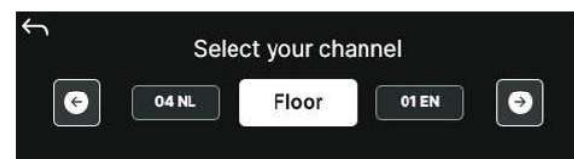
The design of the Confidea FLEX helps visually impaired users select languages by aligning the buttons with the tactile references below the screen, and giving haptic feedback when pressing the arrow buttons.

Easily manage the licenses on the unit itself in initialization mode. The unit gives a clear overview of the active licenses and the number of remaining licenses. Activating and deactivating licenses is as simple as pressing the button of the desired license.



With the Confidea FLEX, there are no physical buttons for language selection. If the language license is active, an additional button appears on the interface, pressing this button opens the language selection menu.

You can swipe through the languages or use the arrow buttons. The design of the Confidea FLEX helps visually impaired users to select languages by aligning the buttons perfectly with the tactile references below the screen, and giving haptic feedback when pressing the arrow buttons.



Features

- » Language selection via easily accessible button on the interface of the unit
- » Designed for visually impaired users with tactile references and haptic feedback
- » Easily switch on and off language selection

Software

To fully configure, manage, and use the language options on the Confidea FLEX, Televic's Confero 360 or CoCon management software is required.

If used with Confero 360, the following standard license is required:

Confero	71.98.3000
----------------	-------------------

If used with CoCon, the following standard licenses are required:

CoCon Interpretation	71.98.1107
-----------------------------	-------------------

To enhance the functionality of meetings and extend the features of the Confidea FLEX, the following optional licenses are available:

CoCon Discussion	71.98.1101
CoCon Signage	71.98.1102
CoCon Voting	71.98.1104
CoCon Authentication	71.98.1105

L-Dual

Confidea FLEX Dual Delegate License



Description

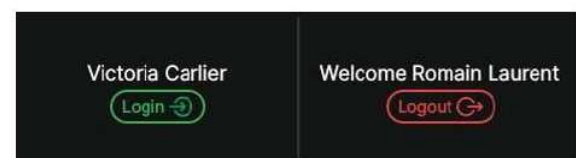
Confidea FLEX is Televic's all-in-one tabletop conference unit. To unlock the different functionalities, you need to activate the correct license. **L-Dual** is the license to configure the unit as a dual delegate unit, allowing two delegates to use the same unit.

With the Confidea FLEX, you can easily switch between single delegate and dual delegate use. Just activate the Dual license when you need it, and deactivate it to switch back to single delegate.

Easily manage the licenses on the unit itself in **initialization mode**. The unit gives a clear overview of the active licenses and the number of remaining licenses. Activating and deactivating licenses is as simple as pressing the button of the desired license.

With the Confidea FLEX, you can easily switch between single delegate and dual delegate use. Just activate the Dual license when you need it, and deactivate it to switch back to single delegate. The LED lights on the back of the unit show the microphone status of both delegates.

Depending on the selected **delegate participation mechanism**, delegates can use their badge to identify themselves on a seat. In dual delegate mode, participants who want to login with a badge will need to tap their badge. The interface shows how to do this and displays participant's names when assigned to a seat.



Features

- » Adjustable microphone button shows two different microphone LEDs for both delegates
- » Split screen showing the microphone status of each of the delegates or voting buttons during voting sessions
- » Users can identify themselves to the system using their badge
- » Animation showing how to log in
- » RFID card reader

Software

To fully configure, manage, and use the dual use options on the Confidea FLEX, Televic's Confero 360 or CoCon management software is required.

If used with Confero 360, the following standard license is required:

Confero	71.98.3000
----------------	-------------------

If used with CoCon, the following standard licenses are required:

CoCon Discussion	71.98.1101
CoCon Authentication	71.98.1105

To enhance the functionality of meetings and extend the features of the Confidea FLEX, the following optional licenses are available:

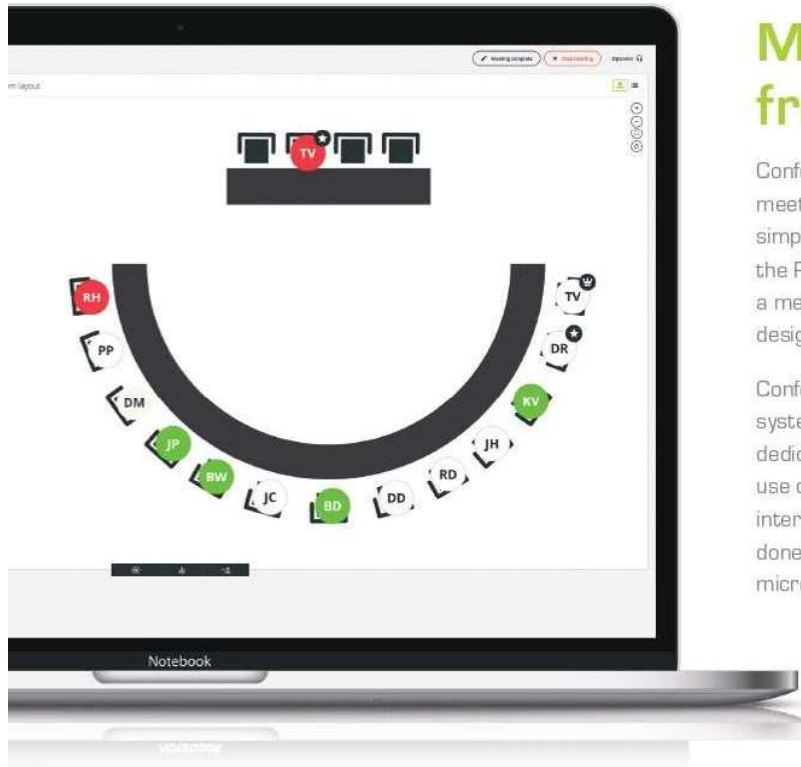
CoCon Voting	71.98.1104
CoCon Signage	71.98.1102

Confero 360

A 360 view on your meeting



Confero 360



Manage meetings, right from your own browser

Confero 360 is Televis's newest solution for straight forward meeting management. It offers an all-in-one software package that simplifies room setup and meeting moderation. All managed from the Plexus engine's webserver. Its intuitive interface for setup of a meeting room and tools for meeting moderation was carefully designed with a clear focus on user experience.

Confero 360 brings additional features right to the core of the system, the Plexus engine. All web-based, so no need to install dedicated software on a PC. The new tool also introduces the use of different user roles. This makes it possible to tweak the interface to see only those things that are important to get your job done. It allows a chairperson or operator to control the meeting, microphones and voting.



No installation needed



Wizard based configuration



Simple meeting moderation



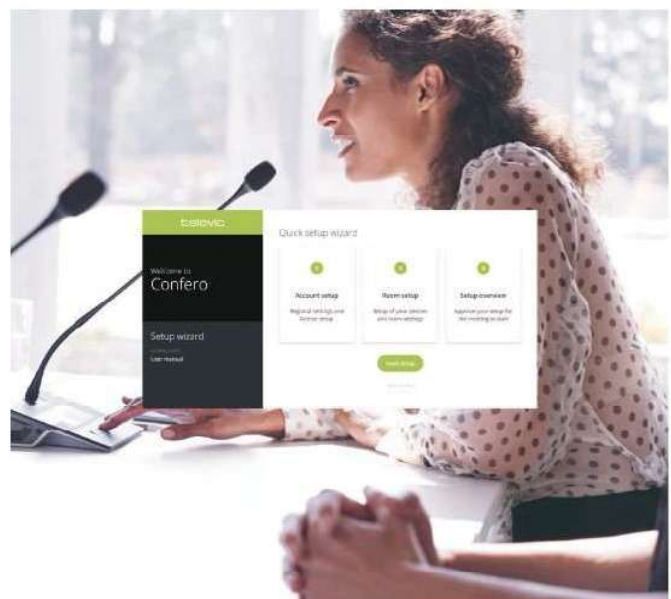
Meeting reporting

Confero enables a smooth setup

By focusing on solving key issues when setting up a conference system, Confero makes system setup easy and hassle-free. The software requires no installation on a PC and is pre-installed on the Plexus central unit. Simply access the software through any web browser and run the setup in one of the 28 supported interface languages.

Confero's quick setup wizard enables a smooth configuration of the system by focusing on just a few easy steps in a very intuitive interface, making installation even easier:

Devices are automatically detected and configured, making the system plug-and-play



Adding a Confero 360 license makes managing meetings easier than ever before

Giving the operator or chairperson the dashboard to run the meeting without taking the focus away really enables smooth and flawless meetings.

Room layout configuration



Configuring the room layout is simple and an effective way to see the location of the delegate microphones on your dashboard. Uploading a background image helps to visualize the room layout. Add microphones by dragging and dropping the seats onto the layout.

Assign roles and functionalities



Confero 360 adds an Operator, Chairperson and Signage role which can be configured with several functionalities. Simply enable or disable the functionalities for each role or disable the role all together if the dashboard is not needed. This allows you to focus on the meeting.

The roles can be protected with a password (optional)

Meeting control



Once logged in as Operator or Chairperson it's all about the meeting. Create a meeting template with delegates and RFID badges for identification or simply drag delegates onto a fixed seat. Start the meeting and you can easily moderate the debate using the room layout, speaker list and request list.

Rotate the room layout so it matches the view from your position in the room.

Voting



Confero 360 also provides you with voting options. Simply start a vote from the dashboard during a meeting, provide an optional vote question and take your pick between different voting answers and even secret voting. Once a vote has started you can see the results on your dashboard and on the signage screen when logging in as the signage role.

Meeting reports



An important part of your meeting is the report. Once you have finished the meeting, a report and optional audio recording are available on the Plexus engine. Simply access the meeting report, which opens right in your browser and save it as PDF or print it. The report contains meeting details such as date, time and meeting room but also attendance and voting results.

Signage



It's also important to engage the audience in the room. From any browser, log in as the signage role and see who is speaking and what the voting results are.

Licenses

To unlock Confero 360 functionality the following license is required:

- » 71.98.3000 : Confero 360 license

	Confero	Confero 360
Setup Wizard	•	•
Devices Setup	•	•
License Setup	•	•
Interpretation configuration	•	•
Audio configuration	•	•
Diagnostics	•	•
Dark Mode	•	•
Multilingual user interface	•	•
Room Layout	-	•
User Roles	-	•
Meeting Template	-	•
Delegate Information	-	•
Electronic voting	-	•
Badge Identification	-	•
Signage	-	•
Meeting Reports	-	•

GET IN TOUCH »



Televic Conference HQ
Leo Bekaertlaan 1
8870 Izegem, België

+32 51 30 30 45
conference@televic.com
www.televic-conference.com

Televic Conference France
120 Avenue Clément Ader
59118 Wambrechies, France

+33 3 74 09 52 76
conference-france@televic.com
www.televic-conference.fr

Televic Conference Asia
Room 703, 78, Jiangchang No.3 Rd
Zhabei Qu Shanghai Shi, 200436
China

+86 21 61 48 01 23
conference@televic.com

Televic Conference U.S
4620 Northgate Boulevard
Suite 120, Sacramento, CA 95834
United States

+1 916 920 0900
conference-us@televic.com

Confidea F-CD Mike

Confidea Flushmount Chairperson Discussion Unit



Description

The Confidea F-CD Mike is Televic's chairperson panel for basic discussion systems, equipped with an integrated speaker. Its small form factor, housed in an elegant casing, permits a minimalistic integration into any meeting room furniture.

The integrated speaker creates a distributed sound field in the meeting room, increasing intelligibility without the need for an additional room sound system.

The panel has a microphone connector to fit the new push-and-lock Mike microphone that reduces setup time. A 3.5 mm jack socket is available to connect headphones or a hearing loop for the hearing impaired. The chairperson version has 2 additional buttons compared to the delegate unit: "Next-in-line" and "Priority".

Benefits

The Confidea F-CD Mike is a sleek and discreet solution that is perfectly suited to conference rooms without an existing sound system. The ability to connect headphones provides accessibility for the hearing impaired.

The unit is available in a variety of custom colors, sizes and finishes to blend in neatly in any environment. The Confidea F-CD Mike is backed by the Plixus® network and redundant cabling to ensure maximum reliability. Finally, its shielded microphone is immune to mobile phone interference.

Features

- » Basic discussion function
- » Tactile microphone push button with integrated LED
- » Tactile Next-in-line push button
- » Tactile Priority push button
- » Integrated loudspeaker
- » Rounded corners for easy installation
- » Trademark natural Televic Sound
- » Available in custom colors, sizes, finishes

Connectivity

- » Push & Lock socket to connect a removable microphone:
 - Mike LPM 71.98.0091
 - Mike PL M301F 71.98.0093
 - Mike PLM401F 71.98.0094
 - Mike PLM502F 71.98.0095
 - Mike PLM602F 71.98.0096
 - Mike PLM402F 71.98.0098
 - Mike PLM40FF 71.98.0099
- » Two RJ 45 connectors for loop through cabling
- » 3.5 mm stereo jack socket for headphones
- » Plixus-powered

Software

To fully configure, manage, and use the unit, Televic's CoCon management software is required. The following standard licenses are available:

- » CoCon Discussion 71.98.1101
- » CoCon Signage 71.98.1102

Certification

Region	Certification
Europe	CE

Specifications

Mechanical	
Material	Steel
Color	Tiger coating Carbon 01
Size (mm)	180 (w) × 80 (h) × 70 (d)
Size packed (mm)	235 (w) × 120 (h) × 85 (d)
Weight	640 g
Weight packed	740 g
Electrical	
Voltage	48 VDC
Current consumption	3.5 W
Speaker Output	
Maximum output power	> 1 W
Frequency response	200-20,000 Hz
Dynamic range	> 90 dB
THD @ nominal level	< 0.1%
Load impedance	8 Ω
Headphone Output	
Maximum output	> 10 mW
Frequency response	22-22,000 Hz
Dynamic range	> 90 dB
THD @ nominal level	< 0.1%
Load impedance	16-32 Ω
Microphone Input	
Dynamic range	> 90 dB
Frequency response	20-20,000 Hz
THD @ nominal level	0.1%

Confidea F-DD Mike

Confidea Flushmount Delegate Discussion Unit



Description

The Confidea F-DD Mike is Televic's delegate panel for basic discussion systems, equipped with an integrated speaker. Its small form factor, housed in an elegant casing, permits a minimalistic integration into any meeting room furniture.

The integrated speaker creates a distributed sound field in the meeting room, increasing intelligibility without the need for an additional room sound system.

The panel has a microphone connector to fit the new push-and-lock Mike microphone that reduces setup time. A 3.5 mm jack socket is available to connect headphones or a hearing loop for the hearing impaired. The chairperson version of this panel has additional controls (see Confidea F-CD Mike 71.98.0541).

Benefits

The Confidea F-DD Mike is a sleek and discreet solution that is perfectly suited to conference rooms without an existing sound system. The ability to connect headphones provides accessibility for the hearing impaired.

The unit is available in a variety of custom colors, sizes and finishes to blend in neatly in any environment. The Confidea F-DD Mike is backed by the Plixus® network and redundant cabling to ensure maximum reliability. Finally, its shielded microphone is immune to mobile phone interference.

Features

- » Basic discussion function
- » Tactile microphone push button with integrated LED
- » Integrated loudspeaker
- » Rounded corners for easy installation
- » Trademark natural Televic Sound
- » Available in custom colors, sizes, finishes
- » Basic discussion function

Connectivity

- » Push & Lock socket to connect a removable microphone:
 - Mike LPM 71.98.0091
 - Mike PLM301F 71.98.0093
 - Mike PLM401F 71.98.0094
 - Mike PLM502F 71.98.0095
 - Mike PLM602F 71.98.0096
 - Mike PLM402F 71.98.0098
 - Mike PLM40FF 71.98.0099
- » Two RJ 45 connectors for loop through cabling
- » 3.5 mm stereo jack socket for headphones
- » Plixus-powered

Software

To fully configure, manage, and use the unit, Televic's CoCon management software is required. The following standard licenses are available:

- » CoCon Discussion 71.98.1101
- » CoCon Signage 71.98.1102

Certification

Region	Certification
Europe	CE

Specifications

Mechanical	
Material	Steel
Color	Tiger coating Carbon 01
Size (mm)	180 (w) × 80 (h) × 70 (d)
Size packed (mm)	235 (w) × 120 (h) × 85 (d)
Weight	640 g
Weight packed	740 g
Electrical	
Voltage	48 VDC
Current consumption	3.5 W

Speaker Output

Maximum output power	> 1 W
Frequency response	200-20,000 Hz
Dynamic range	> 90 dB
THD @ nominal level	< 0.1%
Load impedance	8 Ω

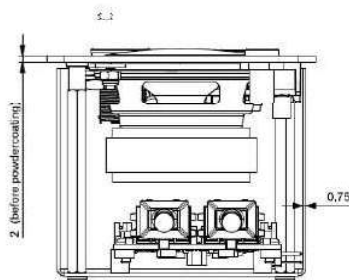
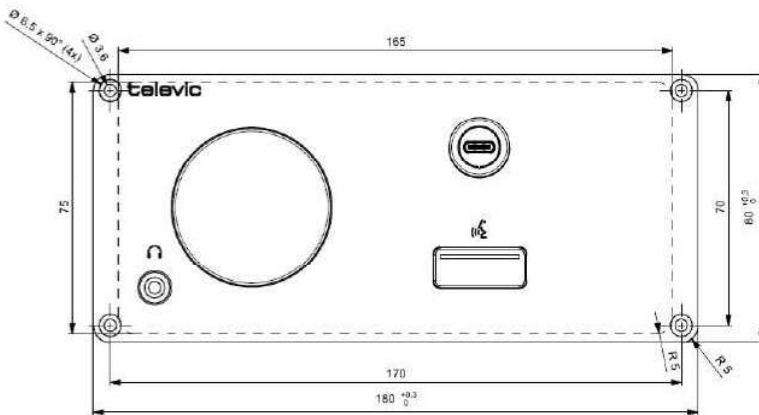
Headphone Output

Maximum output	> 10 mW
Frequency response	22-22,000 Hz
Dynamic range	> 90 dB
THD @ nominal level	< 0.1%
Load impedance	16-32 Ω

Microphone Input

Dynamic range	> 90 dB
Frequency response	20-20,000 Hz
THD @ nominal level	0.1%

Technical Drawings

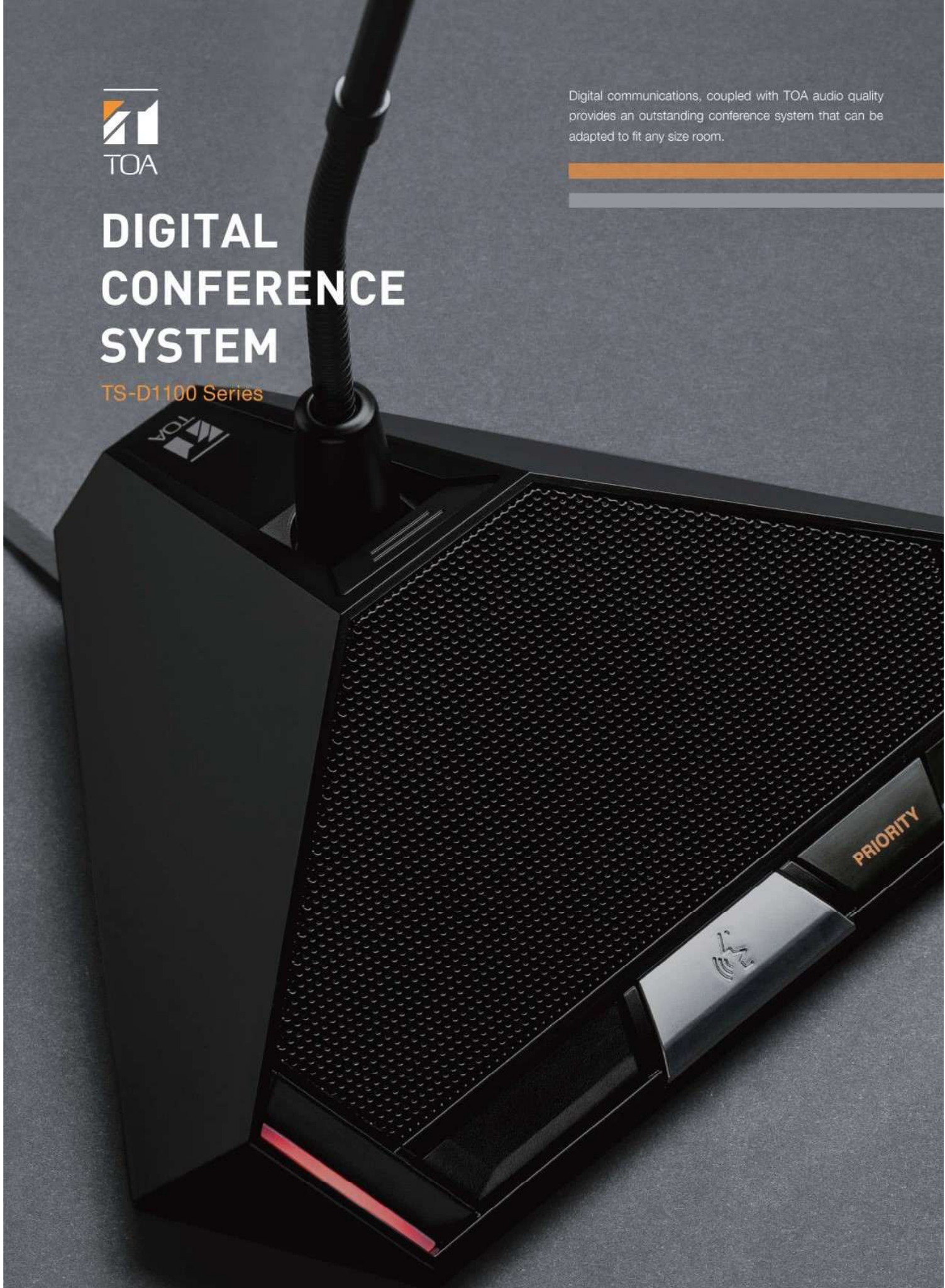




Digital communications, coupled with TOA audio quality provides an outstanding conference system that can be adapted to fit any size room.

DIGITAL CONFERENCE SYSTEM

TS-D1100 Series



NEW
TS-D1100-MC
Microphone Unit

The TS-D1100-MC Microphone Unit is integrated with a gooseneck microphone, and specifically designed for use with TOA's TS-D1100 Series Digital Conference System, using CAT5e STP LAN cables.



PRIORITY



NEW
TS-D1100-SP
Speaker Unit

The TS-D1100-SP Speaker Unit is specially designed for use with TOA's TS-D1100 Series Digital Conference System. This single speaker unit provides clear conference audio to all participants within a radius of approximately 3 meters.

TS-D1100-MU
Master Unit

The TS-D1100-MU Master Control Unit of TOA Digital Conference System is designed with simple connection to its Chairman and Delegate units using CAT5e STP LAN cables.





Facilitator-supporting function

Chairman's Unit Priority Function

- Chairman Unit has priority override control.
- Smooth operation of the conference is assured by a Chairman Unit's priority function.

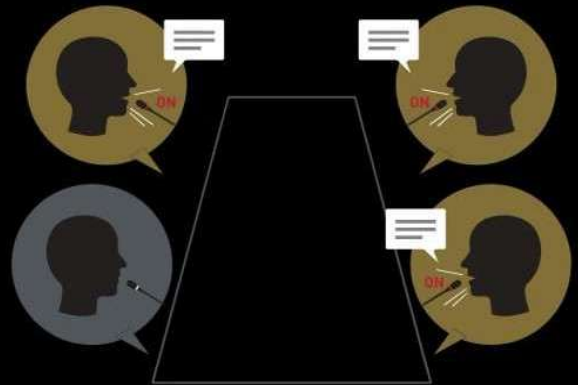
Setting for Number of Open Microphones

- The Chairman can select the number of delegates who speak simultaneously to guide the discussion.
- Up to eight Delegate Units for simultaneous operation is allowed and if one or two Chairman Units are included, they may speak simultaneously.

Participant-supporting feature

Voice Activation Mode

Start talking instead of pressing the button. Microphone can be activated in response to a person's voice.



Administrator-supporting feature

Easy Maintenance

A Shielded CAT5e STP cable carries signals between conference units or between the Master Control Unit and a conference unit.

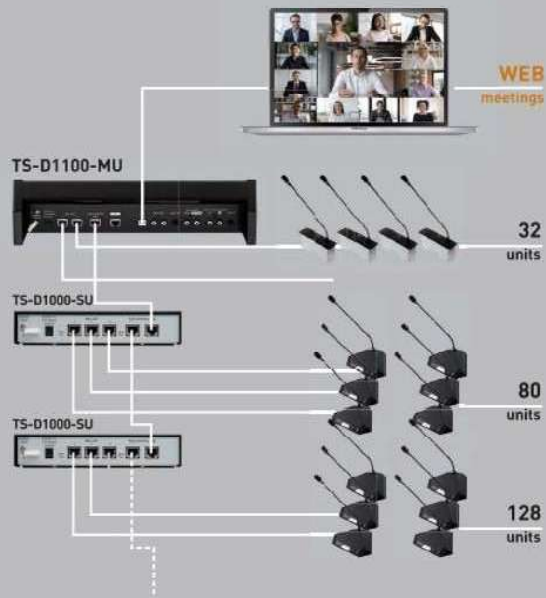


Flush Mount Type

Microphone latch lock. Use the hex wrench M3 (accessory of TS-D1000-CF) to push into this latch lock hole to dismantle the microphone.



System Configuration

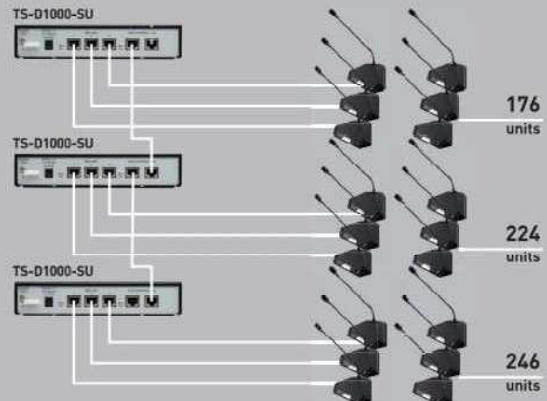


Max 246 Conference units

+

Remote WEB meetings

*TS-D1100-MU only



Space-Saving System Configuration



More Compact Size

To build a more space-efficient conference system, we offer compact microphone units along with speaker units capable of covering a 6-meter-square conference room with a single device.

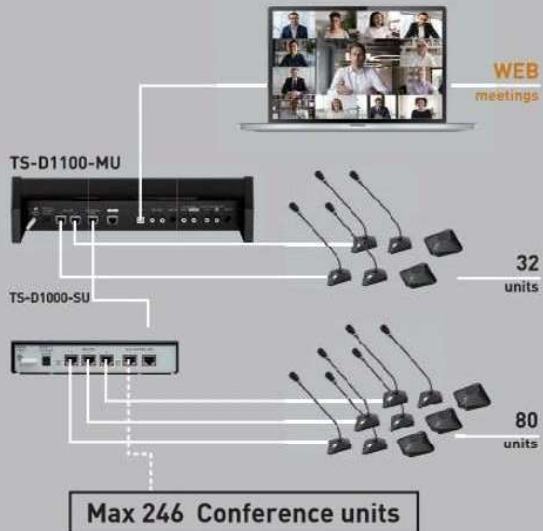
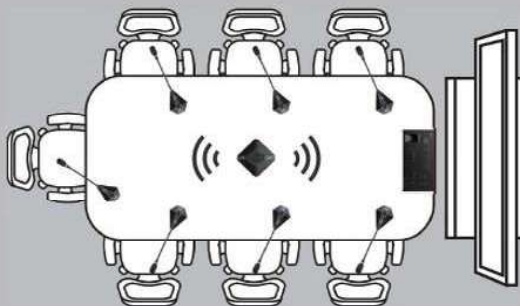
TS-D1100-MC

TS-D1100-SP



Compact yet Powerful

Utilizing compact individual microphone units alongside a shared speaker unit allows for more efficient use of conference table space. Additionally, it supports connection of up to 246 conference units, catering to various meeting formats.





audio-technica



ATUC-50

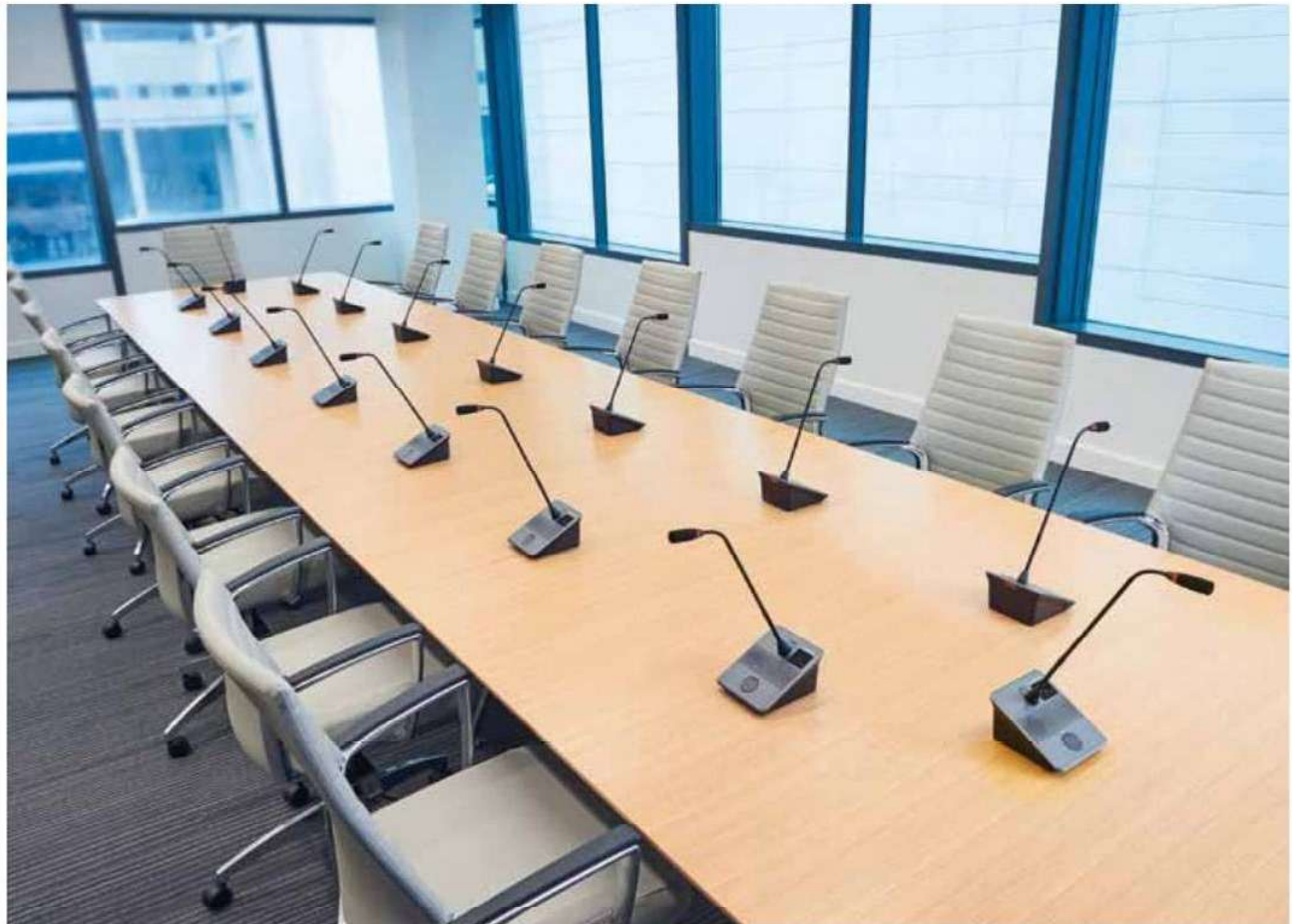
Full-Featured Digital Conference System



ATUC-50 A New Class of Conferencing

ATUC-50 Key benefits

- Feedback suppression and individual DSP for enhanced audio quality
- Premium Sound quality and speech intelligibility
- Multi-lingual web remote based remote control
- Paintable top panel
- Plug and play installation
- Five Year Warranty
- Secure and reliable
- Cost effective
- Ease of use



ATUC-50 A New Class of Conferencing

You choose the scale and complexity of your communication needs and in return the ATUC-50 Discussion System gives you reliable, crystal-clear speech reproduction from a system that couldn't be simpler to set up and use.

From small gatherings in a meeting room to medium/large-scale conferences, the ATUC-50 is designed to be easily configured – and reconfigured – while providing the professional sound quality and advanced controls that will enable you to adapt it to any number of discussion settings.

The ATUC-50 is the first with individual DSP for each discussion unit for real-time adjustment during conferences. The premium audio performance and high intelligibility results in a more engaging and less tiring conference experience. The system is easy to operate via a PC, mac or any tablet (windows, iOS, android), and the intuitive web remote control works on all web browsers.

The ATUC-50 enables full IP integration into 3rd party control systems. More functionality, higher performance and better value than other products.



ATUC-50 System Components



Control Unit ATUC-50CU



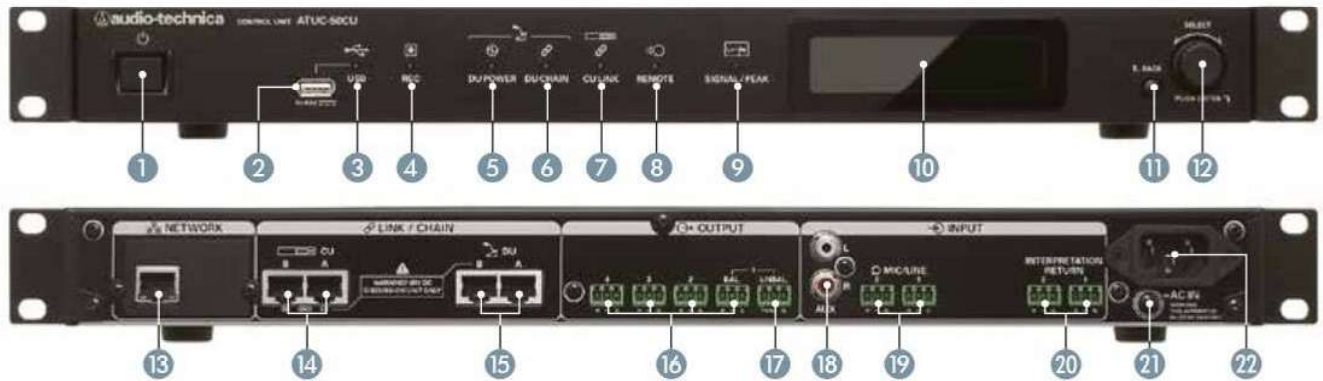
The heart of the ATUC-50 system

- Supports up to 100 discussion units.
- Cascade capability to handle upto 300 discussion units and a max of six interpretation units for upto 3 spoken languages in the meeting.
- 4 configurable balanced outputs plus output 1 mirrored to unbalanced output.
- 2 Mic/Line In + 1 Aux In + 2 Return In.
- Three language simultaneous interpretation.
- Conference Mode: Free talk, Request to talk and Full remote.
- Override settings: LIFO, FIFO and Non Override.
- 'Mic On' trigger: Manual or Voice activation.
- Web remote interface facilitates pre-meeting system setup and management of the live discussion through a web browser.
- Built-in Wav and MP3 Recorder to external USB memory devices, up to 4 channels (2 channel MP3).
- Built-in feedback suppressor and digital audio processing (DSP).
- Gain sharing algorithm substantially reduces the risk of feedback while maintaining a natural sound.

Specifications

I/O connectors	Inputs: MIC/LINE x2, AUX (ST). Interpretation Return x2 Outputs: Balanced x4, Unbalanced x1 LINK/CHAIN: DU A/B terminals, CU A/B terminals (DU C/D terminals)
Recording (via USB)	WAV: 1/2/3/4 track with CUE point (BWF standard) MP3: 1/2 track with CUE point (Original format) MP3 bit rate: 64kbps / 128kbps / 192kbps / 256kbps / 320kbps
Resolution/Sampling frequency	24bit/48kHz
Latency	1ms *MIC Input to Output / 1.2ms *DU to CU
Frequency response	+1.0, -2.0dB, 20Hz-20KHz, refer to +4dBu output @ 1kHz
Dynamic range	110dB A-weighted
Signal to noise	90dB A-weighted
Headroom	20dB
Equivalent input noise	Mic/Line 1-2, less than -126dBu, Rs=150 ohm
Residual noise	Less than -86dBu, A-Weighted
Total harmonic distortion	Less than 0.03% @1kHz unity
Crosstalk @1kHz	Less than -80dB
OLED display	20x2 Character type, Color: Yellow, Operating life time: 100,000 hours
Phantom power	DC +48V
Power requirement	AC 100V-240V 50/60Hz
Power consumption	20W - 175W (max.)
Operation temperature	0-40°C
Operation humidity	25 - 85%
Dimensions (1 RU)	482.6mm x 331.6mm x 44mm (W x D x H)
Net weight	3.4kg
Finish	Front panel - Black, Top & Rear - Black
Included accessories	AC power cord, Quick Setup Guide x2, Euroblock connectors x9, Warranty Sheet

Specifications are subject to change without notice.



- | | | | |
|--|-------------------------------------|---|--|
| 1 Power switch | 7 CU LINK indicator | 18 NETWORK terminal | 19 Analog input (unbalanced) terminal |
| 2 USB (for a USB flash drive) terminal | 8 Remote (remote control) indicator | 19 CU LINK A/B terminals,
DU CHAIN C/D terminals | 20 Analog input (balanced) terminal |
| 3 USB access indicator | 9 SIGNAL/PEAK indicator | 19 DU CHAIN A/B terminals | 20 Interpretation return inputs (balanced) |
| 4 REC (recording) indicator | 10 CU display | 19 Analog output (balanced) terminal | 21 Ground screw |
| 5 DU POWER (DU power supply) indicator | 11 BACK button | 19 Analog output (unbalanced) terminal | 22 AC Inlet (AC IN) |
| 6 DU CHAIN indicator | 12 Jog dial/ENTER button | | |

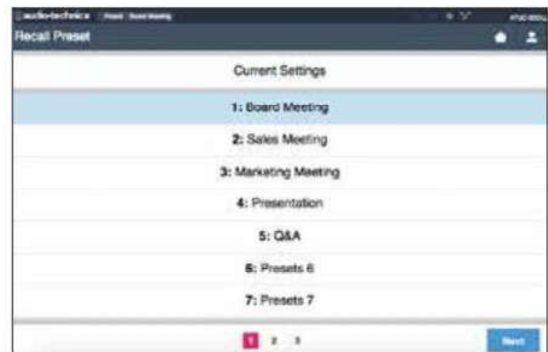
Web Remote Control

ATUC-50

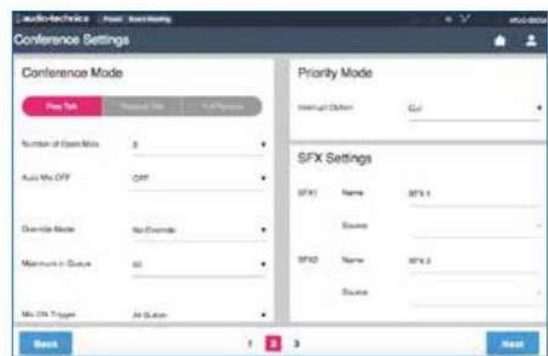
Discussion unit with high-quality audio

The ATUC-50's Web Remote Control function is a web application with a multi-language UI that allows you to configure and operate the system from a computer or mobile device using a standard web browser and without needing to load software. From the application's home screen it is possible to configure detailed settings of the system, recall and adjust presets before starting a conference.

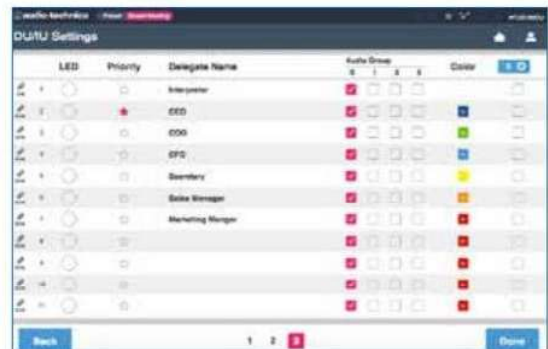
- Accessible from web browser on Mac, PC, iOS and Android tablets.
- No need to install additional software.
- Intuitive licence free software based on Google Material design principles.
- Multi lingual user interface (with a choice of 10 preloaded languages and the possibility to upload two additional languages).
- General system settings with the system upgrade facility.
- Network settings.
- Administrator and Operator access levels, with optional password protection.
- Configuration of conferencing and audio parameters for the control unit.
- General and individual discussion unit (ATUC-50DU) and integration unit (ATUC-50IU) settings.
- Assignment of the preprogrammed functionalities to the GPIO's of the priority ATUC-50IU integration units.
- Configuration of the interpretation settings.
- Configuration of recording settings and control of (start, stop, pause) recording sessions.
- Creation of conference presets.
- Three different audio special effects, assignable for each preset.



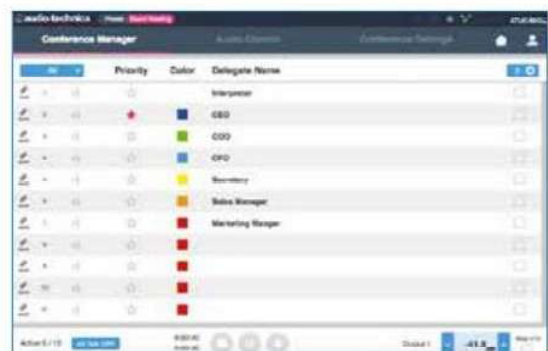
Preset



Conference Setting



Discussion Unit Setting



Conference Manager

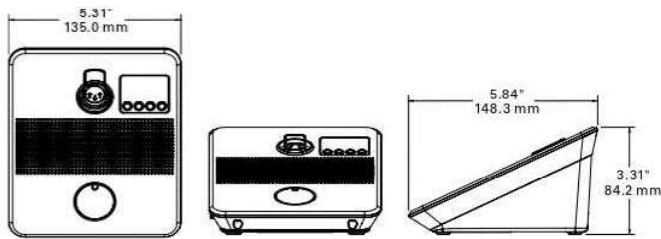


ATUC-50 System Components

Discussion Unit **ATUC-50DU**

Discussion unit with high-quality audio

- Configurable user type unit e.g. delegate, chairman, VIP.
- Microphone connector compatible with standard 3-pin XLR microphones.
- Low Noise (EIN: -121 dBu) microphone preamp using discrete transistors, with individual adjustable gain control.
- Multi colour RGB rear LED bar for general visualisation purposes.
- Multi-colour LED on the speak button for user's colour preferences.
- LED display for volume control and listening channel selection.
- High quality speaker for enhanced speech intelligibility.
- 24-bit / 48kHz High Resolution Audio.
- Multiple independent indicator (multi-coloured RGB LED bar on rear of Discussion Unit and LED on the talk button).
- Clear LED display for volume control and listening channel selection.
- 2 x RJ45 Port for connecting to the Control Unit and other Discussion Units and 1x expansion terminal for future options.
- 1 x stereo mini jack headphone output.



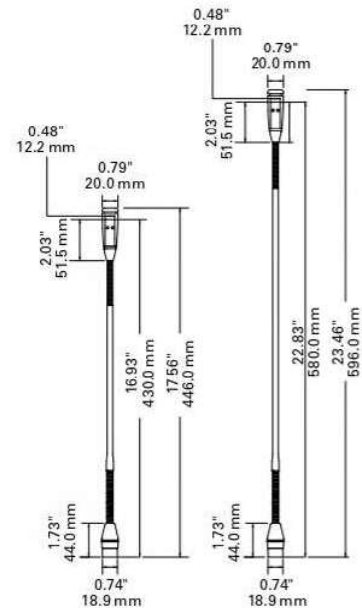
Specifications

Dynamic range	107 dB A-weighted
Frequency response	+ 1.0, - 2.0dB, 20Hz - 20kHz, refer to +4dBu output @ 1kHz
Audio sampling	24 bit/48 kHz
Signal-to-noise	87 dB, A-weighted
I/O connectors	Inputs: MIC (Neutrik XLR-F) - Outputs: Headphones x 1 LINK/CHAIN: DU RJ45 A/B terminals
Headroom	20 dB
Equivalent input noise	Less than -121dBu, Rs=150 ohm
Total harmonic distortion	Less than 0.07% @1kHz unity
Phantom power	DC +24V
Power supply	DC +48V
Power consumption	2.2 W
Operation temperature	0-40° C
Operation humidity	25-85%
Dimensions (W x D x H)	135mm x 148.3mm x 84.2mm
Net weight	570g
Finish	Top panel: Charcoal grey - Enclosure: Black
Included accessories	Quick setup guide, warranty sheet

Microphones **ATUC-M43H** and **ATUC-M58H**

Specially designed 3-pin microphone with LED Ring

- Unique 3-pin balanced microphone with remote red LED ring offering high sound quality and user flexibility.
- Patent pending design isolates the microphone connector from the Discussion Unit socket.
- Double layer pop filter (inside microphone and detachable wind screen).
- RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI).
- Two lengths available (430mm, 580mm).



	ATUC-M43H	ATUC-M58H
Element	Fixed-charge back plate, permanently polarized condenser	
Polar pattern	Hypercardioid	
Frequency response	100-15,000Hz	
Open circuit sensitivity	-40 dB (10.0 mV) re 1V at 1 Pa	
Maximum input sound level	134 dB SPL, 1 kHz at 1% T.H.D.	
Signal-to-noise ratio	64 dB, 1 kHz at 1 Pa	
Impedance	250 ohms	
Finish	Low-reflectance black	
Dimensions	Ø18.9x430	Ø18.9x580
Weight	82g	92g

ATUC-50 System Components

Integration Unit **ATUC-50IU**

- The integration unit is a microprocessor unit for custom designed flush mount conference units.
- The unit is of compact robust metal casing with the fixing ears with holes, perfectly designed to fit the installation under the table, in-between the armrest of the chairs underneath the elevated floor or any other hidden place.
- With 39 Euro block pins the unit features an output for microphone with red lighting ring signalling, loudspeaker, minijack, 3 language channel selector for the headphone, volume control of the headphone output, speak button, priority/ mute button, 5V power outlet and 16 GPIOs.
- When the system is controlled by the CU via the web remote than the IU unit with no priority would have only one GPIO and that is the "self-mute"
- When the system is controlled by the CU via the web remote than the up to 9 IU units with priority can get assigned a variety of preprogrammed GPIOs such as: next on, master volume up and down, start and stop recording, up to 8 presets, up to 3 SFX - special sound effects.
- When the IP control is applied to the system the GPIO's of all the units regardless the priority level, can be custom programmed to the functionalities one's desires functionalities as e.g. external voting (up to 8 buttons) and many others.



Specifications

Dynamic range	106dB A-Weighted
Frequency Response	+1dB/ -2dB 20Hz – 20kHz, +4dBu input @ 1kHz
Audio Sampling	24bit / 48k Hz
Signal-to-Noise Ratio	86dB, A-Weighted
Headroom	20dB
Phantom Power	DC +48V
Power Requirement	DC +48V
Power Consumption	3.4W
Operating Temperature	0 – 40°C
Connectors	2x RJ45, 39 pin on EuroBlock
Dimensions	116 x 173 x 25mm
Weight	460g



ATUC-50 System Components

Interpretation Unit **ATUC-50INT**

- This unit enhances the ATUC-50 system with 2 or 3 cost effective language simultaneous interpretation
- The unit in its simplicity does not require trained personae or extensive training to learn how to operate it.
- The unit has buttons for the incoming, out-going language choice and the control volume buttons
- Stereo mini jack outlet for the headphone and 3 pin XLR plug for the microphone
- The unit features both direct and relayed simultaneous interpretation
- There can be 2 units per language and in total 6 units in system
- The unit can be programmed to work either uni-directional L1 -> L2 or bi-directional L1 <->L2 way.
- With 2 INT unit per language it is possible to choose how would they interact one with each other: interlock, no-interlock or combine.
- The INT units can be seamlessly combined with any other contribution conference unit, DU and IU.

Specifications

Dynamic range	107 dB A-weighted
Frequency response	+1.0, -2.0dB, 20Hz~20KHz, refer to +4dBu output @ 1kHz
Audio sampling	24 bit/48 kHz
Signal-to-noise	87 dB, A-weighted
I/O connectors	Inputs: MIC (Neutrik XLR-F) - Outputs: Headphones x 1 LINK/CHAIN: DU RJ45 A/B terminals
Headroom	20 dB
Equivalent input noise	Less than -121dBu, Rs=150 ohm
Total harmonic distortion	Less than 0.07% @ 1kHz unity
Phantom power	DC +24V
Power supply	DC +48V
Power consumption	2.2 W
Operation temperature	0-40°C
Operation humidity	25-85%
Dimensions (W x D x H)	135mm x 148.3mm x 84.2mm
Net weight	570g
Included accessories	Quick setup guide, warranty sheet



Link Extender **ATLK-EXT165**



- The ATLK-EXT165 provides additional power to the ATUC-50 system where the interactive connectivity chart indicates the placement the unit is required.
- The unit is equipped with the mains input, and 2 x RJ45 outlets
- The LED indicators indicate which chain is engaged and the red LED indicates that the unit is powered on
- The unit has a switch that enable remote switching on and off in relation to the ATUC-50CU.
- Robust metal cased unit is adapted to the placement in hidden places e.g under the floor, under the table, or wherever else the unit is required supply the ATUC-50 installation with required power.

Specifications

I/O Connectors	Outputs	LINK power status
	Chain	DU port A/B
Power requirement		AC 100V-240V 50/60Hz
Power consumption		15W-160W (MAX)
Operation temperature		0-40°C
Operation humidity		25-85%
Dimensions (W x D x H)		217mm x 326mm x 41mm
Net Weight		2.2kg
Finish	Front panel	Black
	Top & Rear	Black
Included Accessories		AC Power Cord, Quick Guide, Euroblock connectors (1pcs), Table mount kit, Warranty

ATUC-50 A New Class of Conferencing

Simple, reliable and full-featured digital discussion system

Whatever your conferencing or discussion needs, the ATUC-50 is designed to offer reliable, clear and intelligible communication to significantly increase meeting efficiency and effectiveness.

Voice is the quickest and most efficient tool medium for exchanging ideas - whether in meeting rooms, in councils, in classrooms or through videoconference, speech is the most direct way of communication and understanding.

Audio-Technica's new wired ATUC-50 conference system is designed to offer a reliable and effective way to speak and to be heard.

Ease of use

Using standard Cat 5e (and above) cabling, the ATUC-50 system connects easily through a daisy chain or ring topology.

The Web Remote Control Interface allows quick and easy configuration, plus management directly from any web browser, without need to install dedicated software.

The on-board audio recorder can support up to 4 discrete channels for easy archiving without the need of an external recording device.

All settings can be saved as presets and easily recalled before the start of each meeting.

Reliability

For added redundancy the ATUC-50 can be configured using a ring topology.

The Web Remote Control Interface allows two user permission levels to avoid any unwanted access or accidental programming changes.

Flexibility

Advanced configuration can be used to tailor the system to the users' needs. Each configuration can be saved and recalled instantly.

Multiple modes such as 'Free Talk', 'Request To Talk', 'Full Remote'; various 'override settings': 'LIFO', 'FIFO' and 'Non Override'; and flexible 'Mic On trigger mode': manual or voice activation; allow for adaption to each and every situation.

IP Control allows full parameter access from most third party control systems.

Floor plus 2 Interpretation channels answer today's need in contemporary meeting rooms.

Sound quality and Speech Intelligibility

Individual Mic Gain and EQ to adjust each participant's voice.

24-bit/48kHz uncompressed digital audio for natural sounding voice reproduction.

12 band feedback suppressor allows higher volume levels without causing feedback.

Dynamic processing and 8-band parametric EQ on the main Analog output.

Wiring Diagrams

Daisy Chain x1 Chain



Daisy Chain x2 Chains



Ring Connection x1 Chain



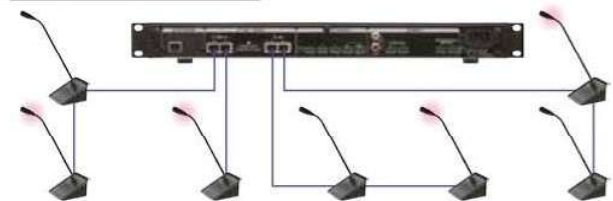
Ring Connection x2 Chains

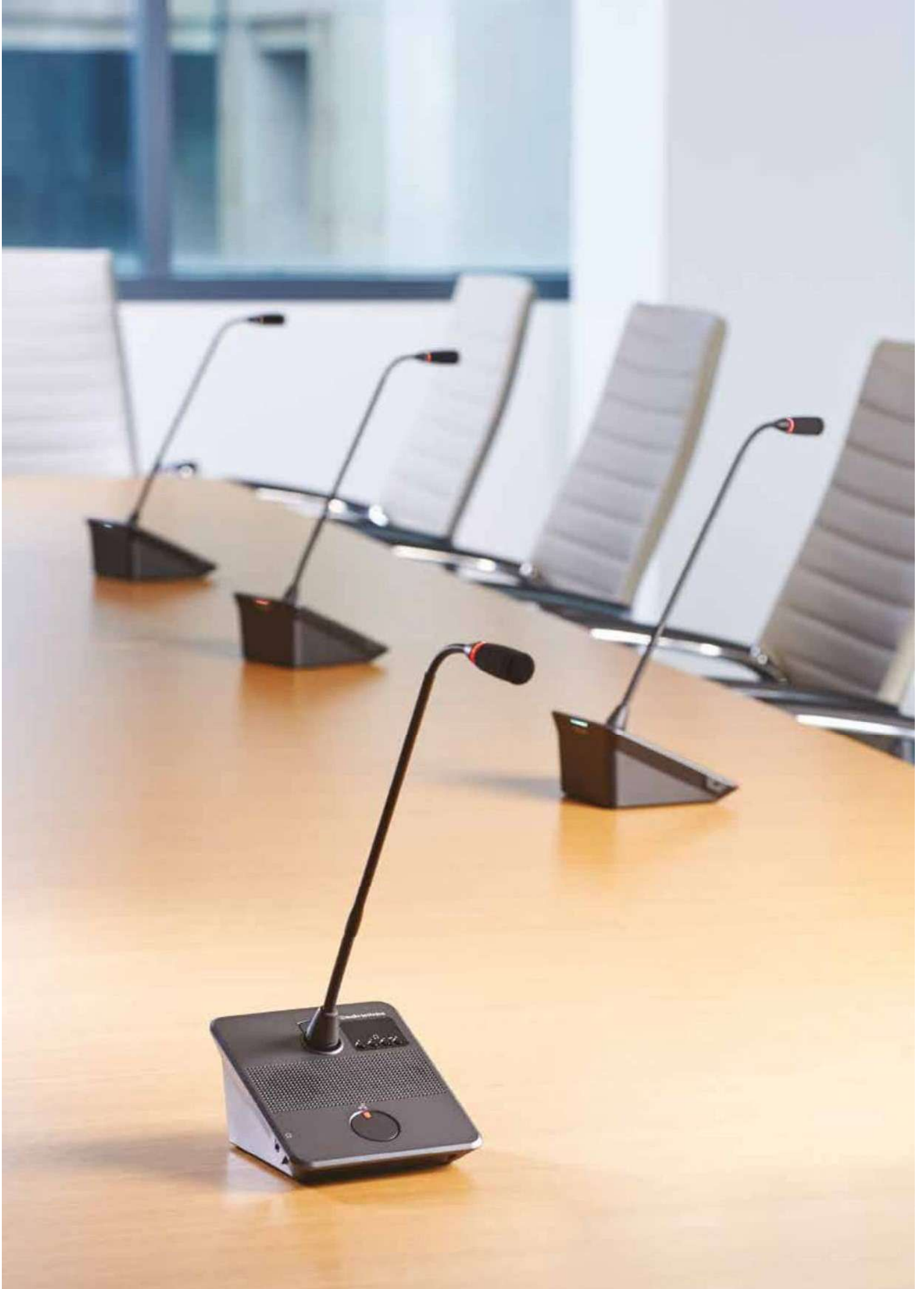


Ring Connection x1 Chain, Daisy Chain x1 Chain

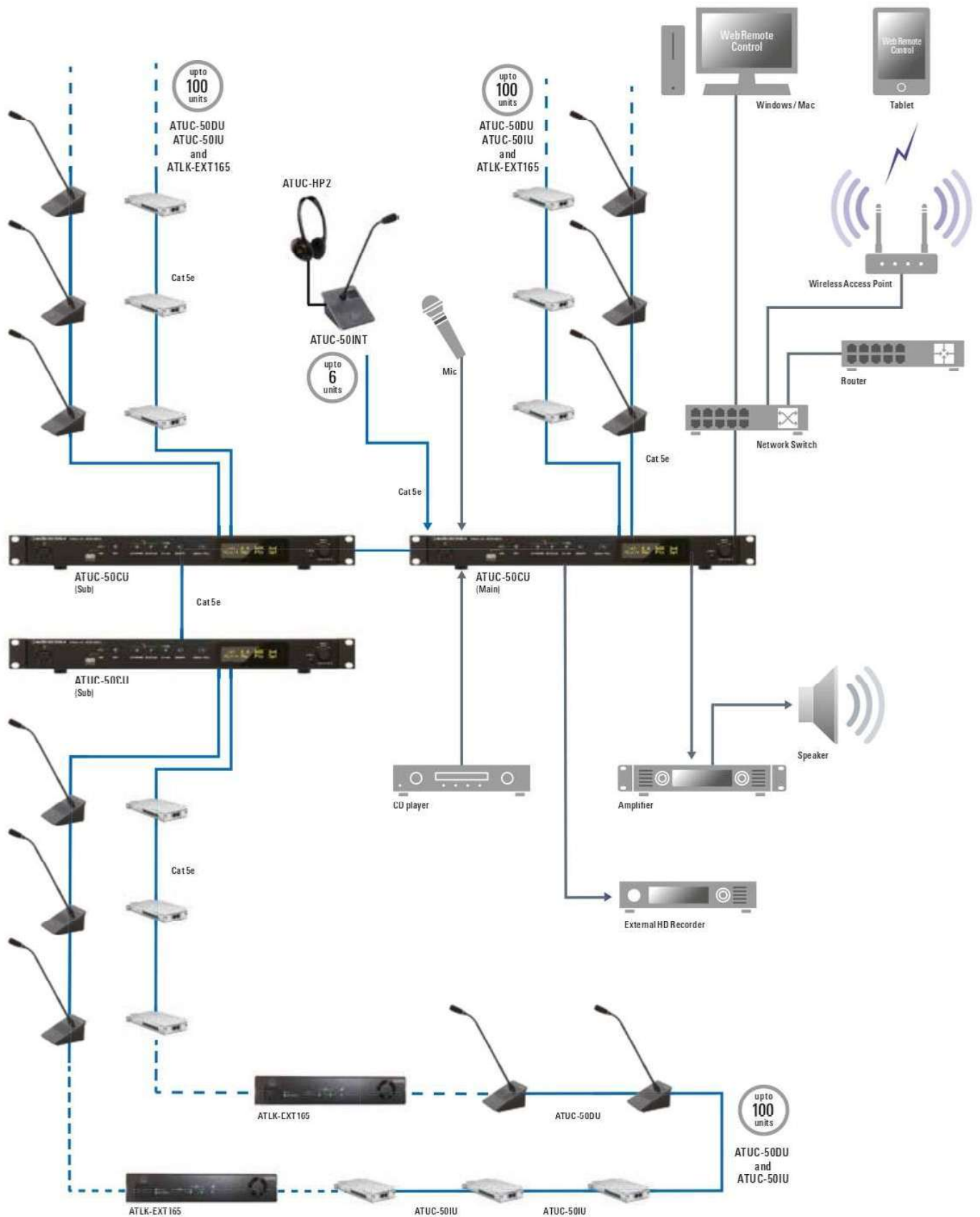


Daisy Chain x4 Chains





ATUC-50 System connection example



Audio-Technica UK
Audio-Technica Ltd.
Technica House
Unit 5, Millennium Way
Leeds, LS11 5AL
England

T: +44 (0)113 277 1441
F: +44 (0)113 270 4836

E: info@audio-technica.co.uk
www.audio-technica.com

Audio-Technica Germany
Audio-Technica Ltd. NDL Deutschland
Lorenz-Schott-Str. 5
D-55252 Mainz-Kastel
Germany

T: +49 (0) 6134 25734 0
F: +49 (0) 6134 25734 50

E: info@audio-technica.de
www.audio-technica.de

Audio-Technica France
Audio-Technica SAS
11, rue des Pyramides
75001 Paris
France

T: +33 (0) 1 43 72 82 82
F: +33 (0) 1 43 72 60 70

E: info@audio-technica.fr
www.audio-technica.fr

Audio-Technica Spain
Audio-Technica Iberia SAU
Oficina Barcelona: Montserrat Roig 13
08908 L'Hospitalet de Llobregat
Barcelona, Spain
T: +34 935 222 450

Oficina Madrid: Fresadores 35
28939 Arroyomolinos, Madrid, Spain
Tel. +34 913 619 081

E: info@audio-technica.es
www.audio-technica.es

Audio-Technica Central Europe
Audio-Technica Central Europe Ltd.
H-1107 Budapest
Fogadó u. 3.
Hungary

T: +36 1 433 34 08
F: +36 1 431 90 06

E: info-ce@audio-technica.eu
www.audio-technica.hu

Audio-Technica Benelux
Iemke Roos Audio B.V.
Kuijperbergweg 20
1101 AG Amsterdam
The Netherlands

T: + 31 20 6972121

E: info@iemkeroos.nl
www.iemkeroos.nl



audio-technica

©2018 Audio-Technica Ltd

E&OE*: Published specifications may be subject to change without notice.
(*Errors and Omissions Excepted)