

COMPLETE INTERACTION

Microflex Complete Wired & Wireless



MORE ENGAGING MEETINGS WITH ONE COMPLETE SYSTEM



Meeting face-to-face is the best way to capture attention and build relationships. But too often, a lack of structure causes important meetings to waste precious time and deliver little or no results.

The solution is a complete audio system designed for conferences and meetings. A conference system ensures that every participant can hear and be heard clearly, regardless of where they are sitting or what the room acoustics are like. It can accommodate a casual, free-flowing discussion or a formal meeting. A conference system can even support multiple languages and provide meeting management capabilities.

Microflex Complete is an integrated audio system for conferences and meetings. Available in wired and wireless configurations, it delivers natural, intelligible sound and adds structure that can make discussions more focused and productive.

A COMPLETE SOLUTION THAT WORKS FOR YOU

PARTICIPANT / DELEGATE

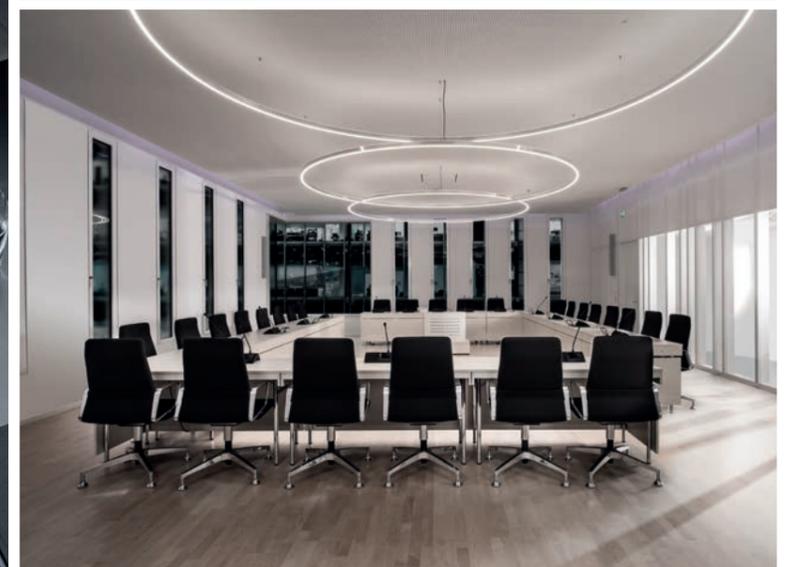
Unlike conventional audio systems, Microflex Complete gives each participant an integrated unit that includes the microphone, loudspeaker, interpretation audio, and controls. With easy operation and best-in-class intelligibility, Microflex Complete makes meeting effortless.

LEADER / CHAIRPERSON

For the leader or chairperson, Microflex Complete includes features that insure an efficient and productive meeting. Microphone control is flexible to match your preferred meeting style, while advanced capabilities like agenda handling and electronic voting keep your team on track so you can focus on moderating and motivating.

SYSTEM ADMINISTRATOR / TECHNICIAN

For the system administrator or technician, a complete audio solution reduces complexity and maintenance. You have full control of the system from one interface, and one number to call for support if it is ever needed.



COMPLETE FLEXIBILITY

With maximum scalability and features, Microflex Complete is the ideal conference system for rooms that are used for organized board meetings, legislative proceedings, or training events. A wide range of portable, flush-mount, and modular conference units can be easily integrated into any room design, with the right mix of controls and capabilities to match your needs. Expandability to handle up to 3,800 participants and 31 interpretation channels, plus a full suite of meeting productivity features through the optional SW6000 conference management software, make Microflex Complete a powerful choice for business, education, and government users.

DIS-CCU Central Control Unit

Controls conference units for up to 3,800 participants and 31 interpretation channels. Includes 2 analog audio inputs and 8 analog audio outputs. Requires FL6000 Feature License for use with MXC-series conference units.



Microflex Complete Gooseneck Microphones

Series of Microflex multipin gooseneck microphones for use with MXC/MXCW conference units only

- CommsShield® Technology for excellent RF noise immunity
- Available Dualflex gooseneck accommodates shared use or standing speakers
- Locking 10-pin modular connector prevents unauthorized removal
- Choice of 16 inch/40 cm or 20 inch/50 cm lengths
- Built-in bi-color (red/green) LED illuminates when mic is active
- Cardioid microphone
- Compatible with omni, supercardioid and mini-shotgun MX-series cartridges to match seating layout or acoustic conditions



Portable Units

All MXC Microflex Complete conference units feature Chairman or Delegate modes, user-replaceable speak & function buttons, integrated loudspeaker and lockable connector for Microflex multipin gooseneck microphones.

MXC615 & MXC620

Conference Unit



- Chairman/Delegate modes
- Participant identification using NFC card (MXC620 only)
- 2 channel selectors, each with a 3.5 mm headphone jack
- Optional Braille overlay

MXC630

Voting Conference Unit



- Chairman or Delegate modes
- 5 backlit voting buttons
- Participant identification using NFC card
- Single language channel selector with OLED display, with two 3.5 mm headphone jacks
- Integrated Braille labels on speak & function buttons

MXC640

Full Featured Conference Unit



- Chairman/Delegate modes
- 4.3-inch / 110 mm capacitive touchscreen display to vote, view agenda or speaker information, etc.
- 2 channel selectors, each with a 3.5 mm headphone jack
- Participant identification using NFC card
- Integrated Braille labels on speak & function buttons

Flush Mounted Units

MXC620-F

Conference Unit



- Chairman or Delegate modes
- Single language channel selector with 3.5mm headphone jack
- Participant identification using NFC card

MXC630-F

Voting Unit



- Chairman or Delegate modes
- 5 backlit voting buttons
- Single language channel selector with 3.5mm headphone jack
- Participant identification using NFC card

Modular Units

MXCMIU

Multi Interface Unit



- Compact conference unit for applications with limited mounting space
- Multiple operating modes for use with:
 - One or two Flush Mounted Interface Plates with gooseneck microphones

MXCMIU-FS | MXCMIU-FL

Small and Large Flush Mounted Interface Plate



- Chairman or Delegate modes
- Fixed Speak and Function buttons
- Connects to MXCMIU with HDMI cable
- Lockable connector for Microflex multipin gooseneck microphones
- Integrated loudspeaker (MXCMIU-FL only)
- Requires MXCMIU

Interpretation

MXCIC

Interpretation Console



- Portable Interpretation Console for use with Microflex Complete Wired
- Meets ISO 20109 requirements
- Large color display shows relay and outgoing language channels
- 8 relay buttons and 3 outgoing languages
- Two 3.5mm TRRS headset jacks; compatible with IH6500 Interpreter Headset
- One 3.5mm TRS headphone jack
- Integrated loudspeaker on rear of unit
- Integral Braille labels & audible cues for visually-impaired interpreters

Name Sign

MXCSIGN

E-paper Sign



- Dual-sided "name sign" with e-paper displays
- High contrast for maximum readability and wide viewing angle
- High resolution, 1900 x 460 pixels, black/white, 4-bit grayscale
- Powered via DCS-LAN
- Programmable via SW 6000 or DIS-CCU when used standalone
- Single/Dual participant capable
- Retains image when disconnected
- Can be flush-mounted or placed on table

COMPLETE FREEDOM

The Microflex Complete Wireless system offers full conference functionality with the added convenience of encrypted digital wireless transmission for up to 125 participants. It overcomes cable limitations at off-site meetings, in rooms with flexible seating, or in historic buildings where drilling holes in furniture is impractical. Proven Shure RF interference detection and avoidance technology delivers reliable transmission and limits signal dropouts even in the most congested RF environments. Robust audio encryption keeps meeting content private. Each wireless conference unit is powered by a smart Lithium-Ion rechargeable battery whose remaining charge (in hours and minutes) can be checked remotely by a technician.

Access Point Transceiver

MXCWAPT

Wireless Access Point and Transceiver

- Controls up to 125 wireless conference units
- Automated frequency coordination
- Interference detection & avoidance
- AES-128 encryption
- Dante™ digital networking enables routing of 10 audio channels in/out over Ethernet to any Dante-equipped device
- Analog XLR input & output
- Power over Ethernet (PoE) connectivity
- Wall/ceiling mounting bracket and paintable cover included
- LCD display for basic configuration; embedded graphical user interface for advanced configuration



Portable Unit



MXCW640

Wireless Touchscreen Conference Unit

- Chairman, Delegate, Ambient Mic, and Listener roles
- 4.3-inch /110 mm capacitive touchscreen display to view meeting controls, speak/request list, voting, etc.
- 2 channel selectors, each with a 3.5mm headphone jack
- Participant identification using NFC card
- Mini-USB port for external charging
- Easy-to-remove rechargeable battery

Rechargeability

SB930

Intelligent Rechargeable Li-Ion Battery



- 3-cell battery with Shure Smart Li-Ion Technology
- Remote monitoring of battery life remaining in hours and minutes
- Integrated test button and 5-segment LED to display charge level

MXCWNCS

Networked Charging Station



- Networked Charging Station for up to 10 SB930 batteries
- Fully charges 10 batteries in 4 hours
- Remotely monitor remaining battery life and charge levels in hours and minutes
- Front panel LEDs report 10, 25, 50, 75 and 100% charge levels
- Table-top, wall-mount, and rack-mount hardware included
- Storage mode prepares batteries for optimal long-term storage

WIRELESS TECHNOLOGY

The Microflex Complete Wireless system takes advantage of industry-leading technology pioneered in Shure professional digital wireless systems to deliver secure, reliable transmission. Using a proprietary wireless protocol, the system operates in the 2.4 GHz and 5 GHz frequency bands (including DFS channels) which can be used license-free worldwide.

SPECTRAL EFFICIENCY

Sound quality is consistent with one talker or several, and up to 125 units are supported with just one Access Point Transceiver and one RF channel.

AUTOMATED FREQUENCY COORDINATION

The system automatically scans the available spectrum and selects clean transmission channels for best performance.

INTERFERENCE DETECTION AND AVOIDANCE

While in use, the system automatically moves away from unexpected interference. Channel adjustment occurs with no disruption to the audio.

ENCRYPTION

Standard AES-128 encryption of audio and data keeps meeting content private.

BI-DIRECTIONAL WIRELESS

Provides return channels for interpretation audio to conference units and enables real-time remote control of conference unit settings.



CONFERENCE MANAGEMENT

SW6000 CONFERENCE MANAGEMENT SOFTWARE

MEETING AND AGENDA MANAGEMENT

MEETING CREATION Create meetings including setting of meeting modes and meeting options	MULTIPLE MEETING MODES Configure seat assignments, ID cards or PIN codes, participant lists, etc.	AGENDA HANDLING Create multi-level agenda to be displayed at meeting	REPORTS Print out meeting details in a choice of report formats
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SPEAKING MANAGEMENT

MICROPHONE CONTROL Control conference microphones from a PC used by a chairman, administrator, or technician	MIMIC/ SYNOPTIC CONTROL Control microphones and display voting results on a room layout diagram on a PC	BASIC SPEECH TIME CONTROL Control speech time for individual participants	NAME HANDLING Assign microphones to participants by name
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PARTICIPANTS INFORMATION AND ROLES

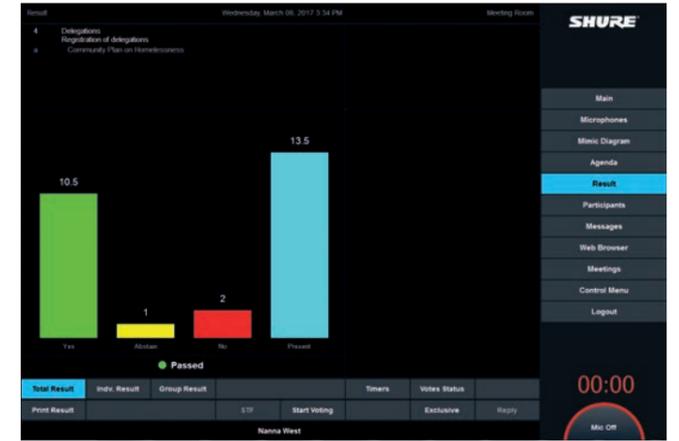
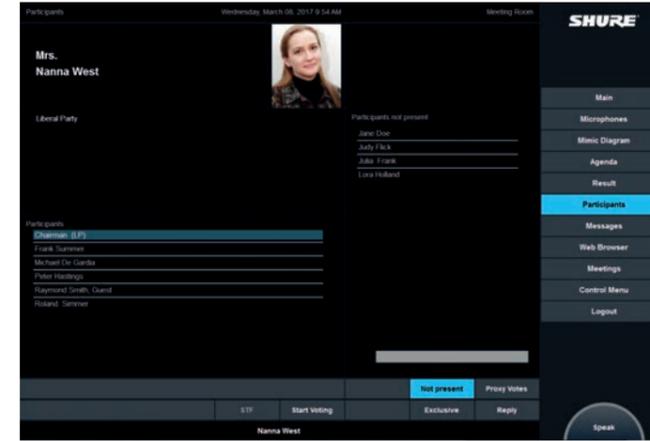
PARTICIPANTS TABLE Create a table with a user profile for each participant	MEETING ROLES Assign roles, permissions, or privileges to different participants or types of participants	LANGUAGE SUPPORT Enter data and labels in multiple languages that appear in CUA on participants' PCs	CHIP CARD LOGIN Enable meeting participants to log in by inserting an ID card into the conference unit	MESSAGING Send messages between PCs used by chairman, participants, technicians, or interpreters
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CONTROLS AND INTERFACES

INTERPRETATION CONTROL Allows technician to set-up interpretation parameters and monitor interpreter booths during meetings	MULTIPLE ROOM CONTROL Allows technician to set up and supervise meetings in multiple rooms from one PC	IMPORT/EXPORT Import/export of participant data and agenda	RS232 APPLICATION Connect Central Control Unit to third-party room control systems via RS232	UNIT SETUP Connect to Central Control Unit and configure conference units
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APPLICATIONS USED BY THE ADMIN, CHAIR OR DELEGATES

CAA Set up conferences, enter delegate and agenda information, and configure components before the event	CUA Used by chairman or delegates to control microphones, view agenda, vote, etc. on PC instead of conference unit
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The SW6000 software suite unlocks the full power of the MXC Microflex Complete and DCS6000 Digital Conference Systems. It provides the structure that allows large meetings with hundreds of participants to be as effortless and efficient as small gatherings. With SW6000, you can recognize the unique roles and privileges of different participants, create an agenda that keeps your meeting on track, take votes electronically, and document the outcome with a searchable electronic archive.

OPTIONAL APPLICATIONS

Additional CAA or CUA applications are only needed if more than one CUA or CAA application shall run simultaneously on the system.

SW6000-CDA CONFERENCE DISPLAY APPLICATION Used to present information created in a meeting on large displays or large screen projectors. Up to 16 CDA applications can run simultaneously	SW6000-CAA CONFERENCE ADMINISTRATOR APPLICATION Used to set-up the system, including configuring seats, equipment, mimic, participants list, meeting, voting parameters, etc. Up to 16 CAA applications can run simultaneously	SW6000-CUA CONFERENCE USER APPLICATION The main user interface on a PC used during meetings. Up to 200 CUA applications can run simultaneously with separate participant login.
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OPTIONAL MODULES

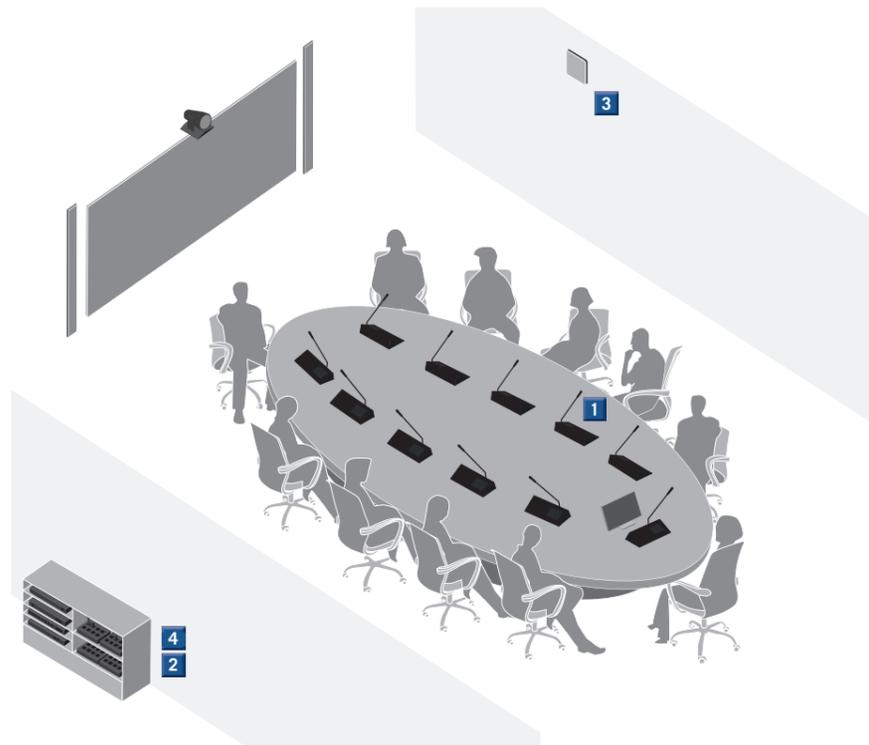
SW6000-ADV ADVANCED MEETING MANAGEMENT Used where more advanced controls are needed including: - Advanced Microphone Control - Advanced Agenda Control including the ability to attach participants to subjects in the agenda and to use a web browser in the CUA - Advanced Speech Control including meeting role dependent timers, manual speech times, group speech time and combined speech time	SW6000-ADV-50 ADVANCED MEETING MANAGEMENT Same functionality as SW6000-ADV but for a maximum of 50 seats	SW6000-VOTE SOFTWARE ENABLED VOTING Enables the voting features in SW6000: - Control and configuration of voting sessions - Extensive voting control management - Unlimited number of voting configurations - Advanced options for calculation of results or passed / quorum options - Casting vote from a conference unit or from the CUA - Option for manual insertion of total voting results - Attendance & registration check options - Option for controlling visibility of the voting result for participants - Proxy voting option - Voting weight option
SW6000-ESI EXTERNAL SYSTEM INTERFACE Provides an interface to third-party systems for: - Control of streaming applications - Web service interface - Advanced import / export of meetings		

Boardroom

Discussion | Conferencing | Collaboration | Presentation

In boardrooms with long tables, it can be difficult to hear people seated at the far end. With Microflex Complete Wireless, each participant has their own conference unit with an integrated microphone and loudspeaker so that everyone can hear each other perfectly. Wireless convenience means there are no holes to drill and the system can be put away when not needed. Robust encryption keeps sensitive meeting content secure.

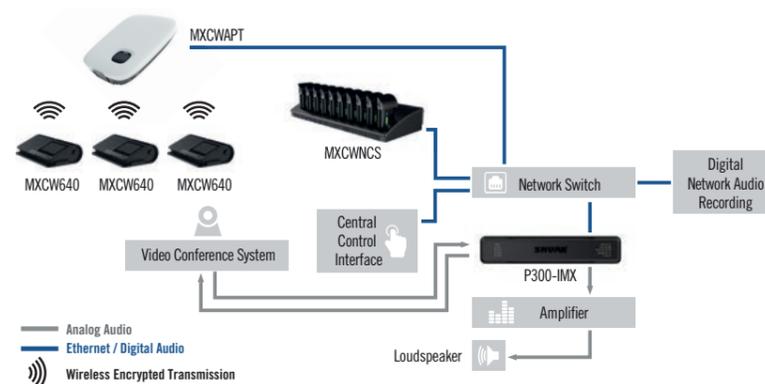
Sample Room Setup



Audio System Components

- 1 MXCW640**
Full Featured Conference Unit
- 2 MXCWNCS**
Networked Charging Station
- 3 MXCWAPT**
Wireless Access Point Transceiver
- 4 P300-IMX**
IntelliMix® Audio Conferencing Processor

System Schematics



P300-IMX IntelliMix® Audio Conferencing Processor



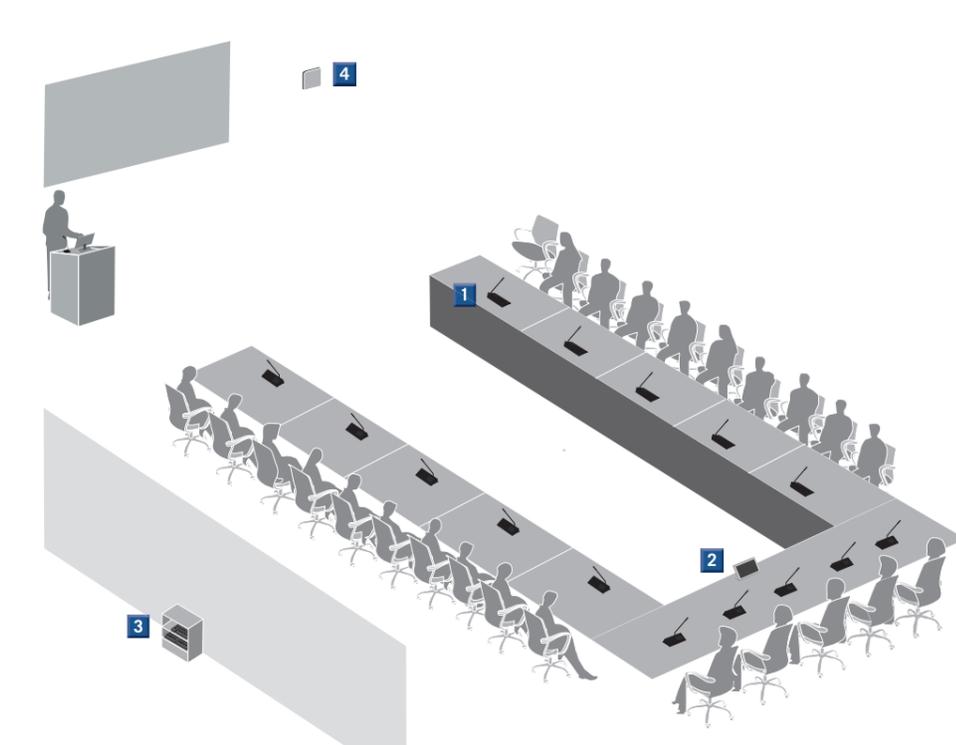
The IntelliMix P300 Audio Conferencing Processor offers DSP algorithms optimized for A/V conferencing applications for a complete, high-quality audio experience from Shure. Featuring acoustic echo cancellation, noise reduction and automatic gain control for up to 8 Dante channels, the P300 ensures echo- and noise-free conference room audio that facilitates communication and collaboration.

Presentation | Panel Discussion | Q&A

Off-Site Meeting

Off-site meetings can be an expensive waste of time if attendees cannot fully participate in the discussion. Typical in-room sound systems are only designed to amplify the presenter's voice, and miss the contributions of other participants. Microflex Complete Wireless is a versatile audio solution that extends full coverage to every attendee without the labor of routing and securing audio cables. Network monitoring allows a technician to monitor battery levels from a PC.

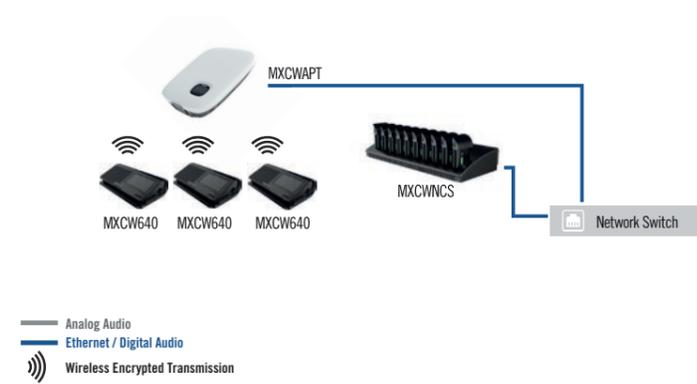
Sample Room Setup



Audio System Components

- 1 MXCW640**
Wireless Touchscreen Conference Unit
- 2 MXCW640**
Wireless Touchscreen Conference Unit configured as Chairman
- 3 MXCWNCS**
Networked Charging Station
- 4 MXCWAPT**
Wireless Access Point Transceiver

System Schematics



MXCW640 Wireless Touchscreen Conference Unit

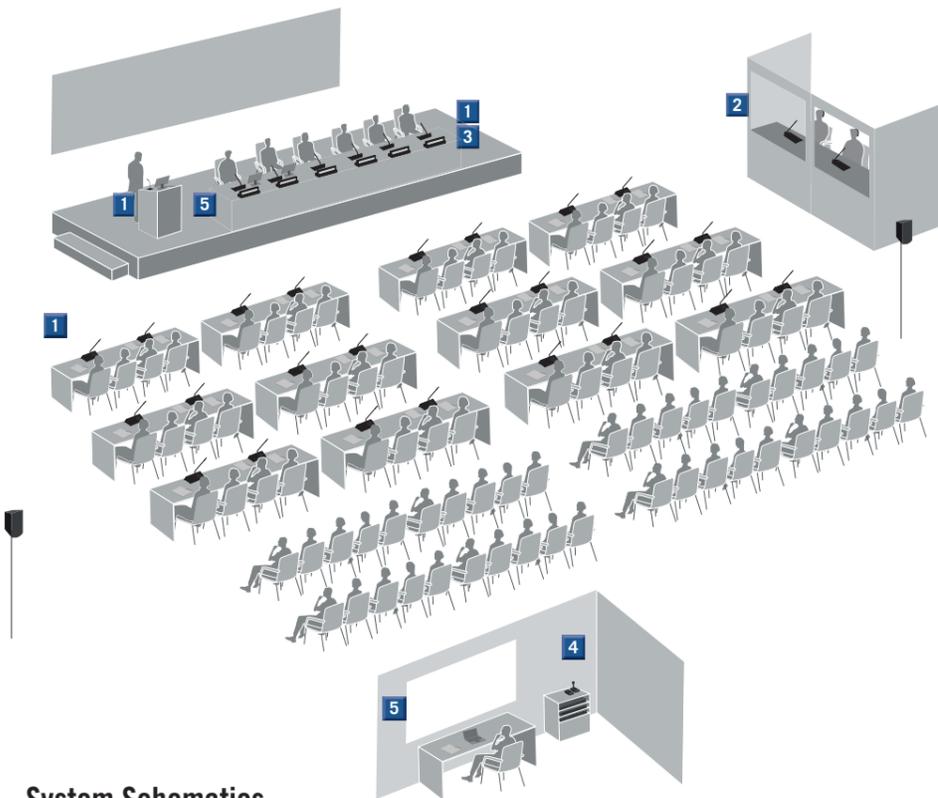


Portable conference unit which can be configured as a chairman or delegate unit. The unit features speak/function buttons, XLR gooseneck microphone connector, loudspeaker, two channel selectors and a touch screen for various functionality (microphone control, conference control, voting).

At large international conferences, every attendee is often an active part of the decision-making process. Microflex Complete with optional SW6000 software is a powerful, scalable conference system that allows seamless management of every aspect of conferences with up to 3,800 participants and 31 languages. Clear and intelligible audio makes communication effortless even in very large rooms, while the optional SW6000 software suite provides meeting organizers with complete control of the speaker list, agenda, voting, and interpretation.

City councils must often document their proceedings and make them accessible to the public. The Microflex Complete conference system delivers excellent intelligibility for those in the room as well as listeners to live streams or recordings. It streamlines many of the administrative tasks necessary to create an agenda, verify attendance, and record votes, and can connect to audio/video recording equipment and a videoconferencing system. Available MXC630-F flush-mounted conference unit integrates microphone, loudspeaker, voting controls, and NFC ID card in one unit.

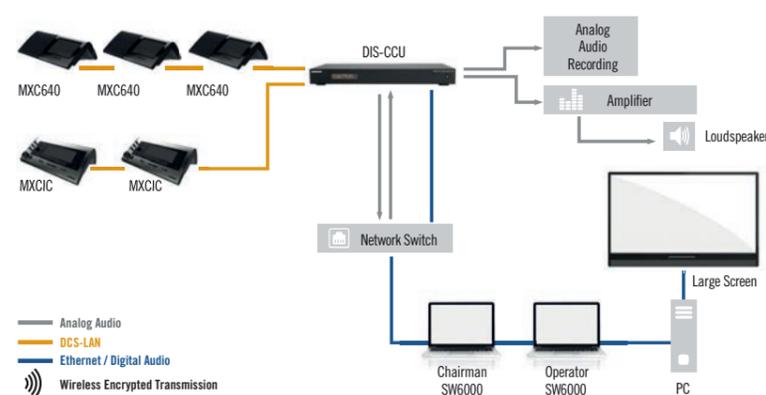
Sample Room Setup



Audio System Components

- 1 MXC640**
Touchscreen Conference Unit
- 2 MXCIC & IH6500**
Interpretation Console and Headset
- 3 MXCSIGN**
Electronic Name Sign
- 4 DIS-CCU**
Central Control Unit
- 5 SW6000**
Conference Management Software

System Schematics

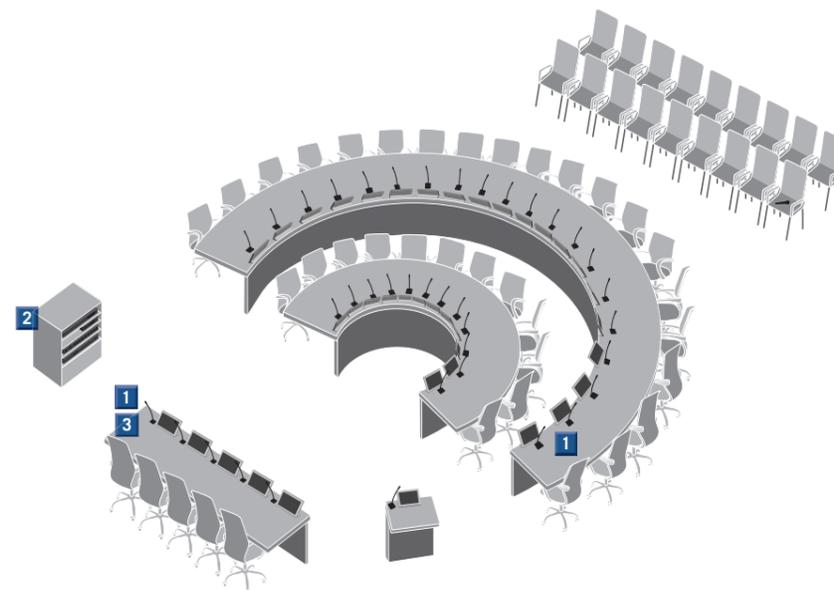


MXCIC Interpretation Console



The new ISO-20109 compliant MXCIC Interpretation Console provides complete flexibility for conference interpreters, with an efficient control layout with large color information screen, 8 relay channels and a choice of headphone and headset connections.

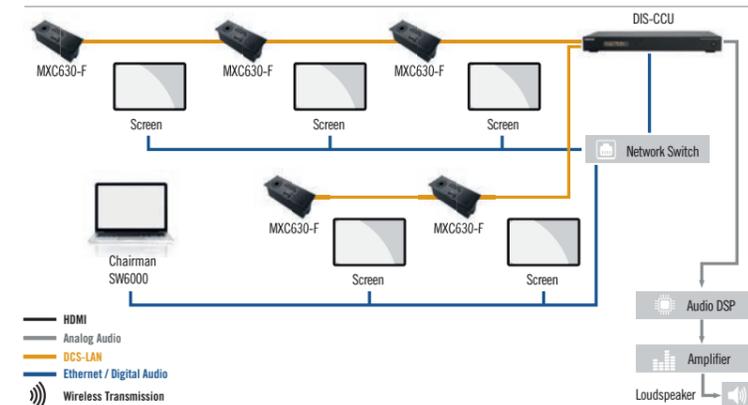
Sample Room Setup



Audio System Components

- 1 MXC630-F**
Flush-mount Conference Unit
- 2 DIS-CCU**
Central Control Unit
- 3 SW6000**
Conference Management Software

System Schematics



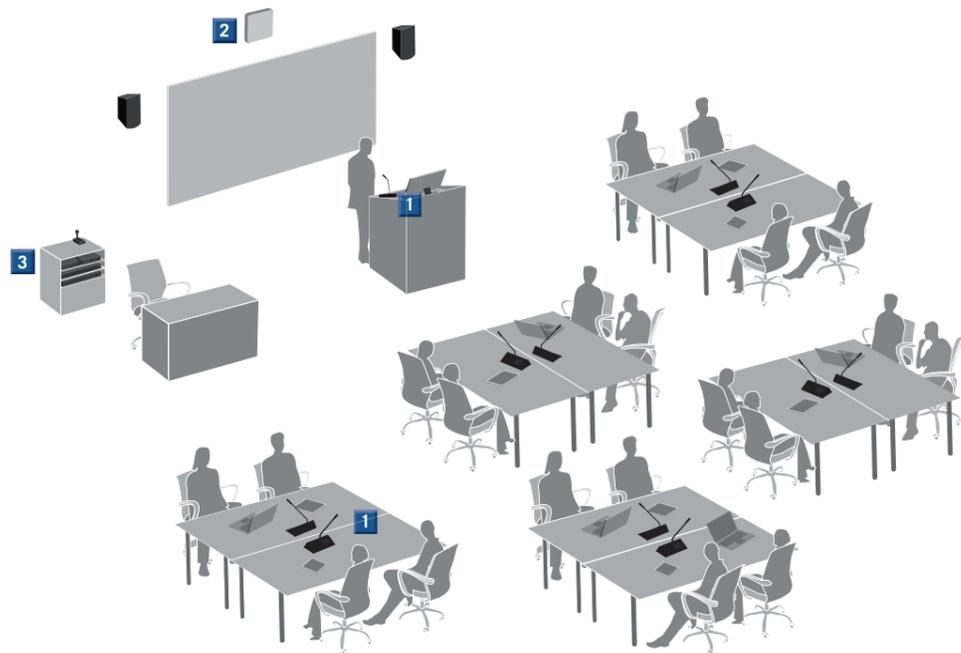
MXC630-F Flush-mount Conference Unit



Flush-mount conference unit with voting buttons, NFC ID card slot and interpretation controls.

At seminars and training events, attendees need to be able to understand complex information and ask questions comfortably, while the instructor needs to know that learning is successful. Microflex Complete Wireless makes it easy for attendees to hear clearly, ask questions, and respond to instructor polls. The system can connect to third-party streaming equipment to include remote participants. Wireless convenience allows flexible seating to be reconfigured without moving cables.

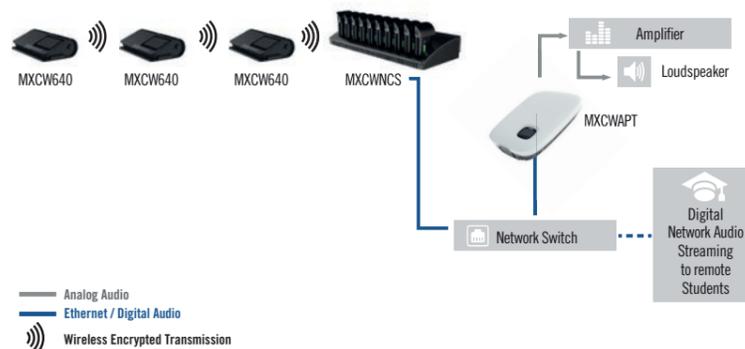
Sample Room Setup



Audio System Components

- 1 MXCW640**
Wireless Touchscreen Conference Unit
- 2 MXCWAPT**
Wireless Access Point Transceiver
- 3 MXCWNCS**
Networked Charging Station

System Schematics



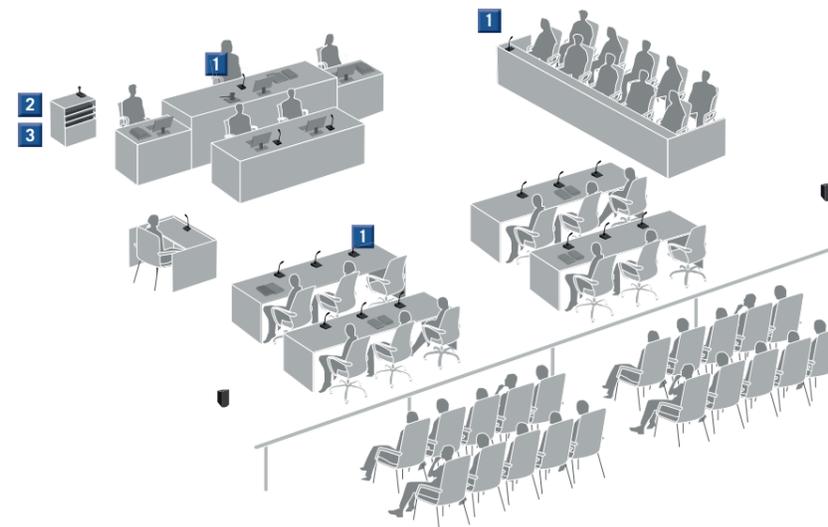
MXCWNCS

Networked Charging Station



Recharges up to 10 SB930 batteries in 4 hours. Charge status can be monitored remotely when connected to network.

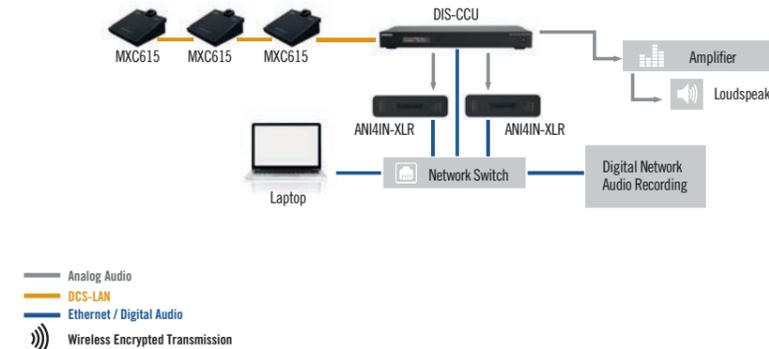
Sample Room Setup



Audio System Components

- 1 MXC615**
Conference Unit
- 2 DIS-CCU**
Central Control Unit
- 3 ANI4IN-XLR**
Audio Network Interface

System Schematics



ANI4IN-XLR

Audio Network Interface



ANI4IN and ANI4OUT devices can bring up to four analog wired microphones, including Microflex boundary and gooseneck models, onto or from Dante network for easy audio routing and convenient browser-based remote control.



Europe, Middle East, Africa:
Shure Europe GmbH
Jakob-Dieffenbacher-Str. 12,
75031 Eppingen, Germany

Phone: 49-7262-92490
Fax: 49-7262-9249114
Email: info@shure.de

**United States, Canada,
Latin America, Caribbean:**
Shure Incorporated
5800 West Touhy Avenue
Niles, IL 60714-4608 USA

Phone: 847-600-2000
Fax: 847-600-1212 (USA)
Fax: 847-600-6446
Email: info@shure.com

Asia, Pacific:
Shure Asia Limited
22/F, 625 King's Road
North Point, Island East
Hong Kong

Phone: 852-2893-4290
Fax: 852-2893-4055
Email: info@shure.com.hk