MICROFLEX COMPLETE WIRED & WIRELESS

COMPLETE INTERACTION.
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.
MXC Microflex Complete

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 languages, 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.

Microflex Mutlipin Gooseneck Microphones
Series of Microflex Multipin Gooseneck Microphones for use with MXC/MXCM Conference Units

- CommShield™ 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
- Choice of 16 inch/40 cm or 20 inch/50 cm lengths
- Locking 10-pin modular connector prevents unauthorized removal
- Available Dualflex gooseneck accommodates shared use or standing speakers

Portable Units
All UBIC 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/Dual Delegate modes
- Participant identification using NFC card
- 2 channel selectors, each with a 3.5 mm headphone jack
- Optional Braille overlay

MXC630
Voting Conference Unit
- Chairman or Delegate modes
- Participant identification using NFC card
- 2 channel selectors, each with a 3.5 mm headphone jack
- Integrated Braille labels on speak & function buttons

MXC640
Full Featured Conference Unit
- Chairman/Delegate/Dual Delegate modes
- 5 backlit voting buttons
- Single language channel selector with 3.5mm 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
  - HM4042 Handheld Microphone
  - External audio source through XLR input

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, Speak/Request list, agenda, messages and more
- 8 relay buttons and 3 outgoing languages
- 3.5mm TRS headphone jack; compatible with IH6500 Interpreter Headset
- One 3.5mm TRS headphone jack
- Integrated loudspeaker on rear of unit
- NFC card reader & USB port for saving/recalling personalized settings
- Dual-sided "name sign" with E-ink 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 or USB port
- Programmable via SW6000 or CCU/USB when used standalone
- Single/Dual participant capable
- Retains image when power is disconnected
- Place on table for temporary events
- Install flush-mounted in permanent installations

Name Sign

MXCSIGN
E-Ink Sign
- Dual-sided “name sign” with E-ink 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 or USB port
- Programmable via SW6000 or CCU/USB when used standalone
- Single/Dual participant capable
- Retains image when power is disconnected
- Place on table for temporary events
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OMUTHER MICROFLEX COMPLETE
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 is limiting signal dropouts even in the most congested RF environments, and 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.

### COMPLETE FREEDOM

- 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 via Ethernet to any Dante-equipped device
- Analog XLR input & output
- Power over Ethernet (PoE) connectivity
- Wall-ceiling bracket and paintable cover included
- LCD display for basic configuration; embedded graphical user interface for advanced configuration

### 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. Setting up the system is as easy as setting up a wireless router.

#### 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.

### MXCW Access Point Transceiver

#### MXCW640

- Wireless Touchscreen Conference Unit
  - Chairman, Delegate, Dual Delegate, Interpreter, Ambient Mic, Listener, and Remote Caller roles
  - 4.3-inch /110 mm capacitive touchscreen display to vote, view agenda or speaker information, etc.
  - 2 channel selectors, each with a 3.5mm headphone jack
  - Participant identification using NFC card
  - 3.5mm connector for remote participant connect via smartphone
  - Mini-USB port for external charging
  - Easy-to-remove rechargeable battery

#### 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
  - Networkable Charging Station for up to 10 SB930 batteries
  - Fully charges 10 batteries in 4 hours
  - 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
The Shure SW6000 Software includes all basic functionalities which are required for a typical meeting.

### 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.

**SPEAKING MANAGEMENT**

- **MICROPHONE CONTROL**
  - Control conference microphones from a PC used by a chairman, administrator, or technician.

- **MIMIC/ SYNOPSIS**
  - 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.

**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 type of participants.

- **LANGUAGE SUPPORT**
  - Enter data and labels in multiple languages that appear in CUA or participant 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.

** CONTROLS AND INTERFACES**

- **INTERPRETATION CONTROL**
  - Allows technician to set up and supervise meetings in multiple rooms from one PC.

- **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.

**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.

**OPTIONAL APPLICATIONS**

- **SW6000-CDA**
  - CONFERENCEx 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**
  - CONFERENCEx ADMINISTRATOR APPLICATION
  - Used to set up the system, including configuring seats, equipment, mimics, participants list, meeting, voting parameters, etc.
  - Up to 36 CAA applications can run simultaneously.

- **SW6000-CUA**
  - CONFERENCEx USER APPLICATION
  - The main user interface on a PC used during meetings.
  - Up to 200 CUA applications can run simultaneously with separate participant login.

**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-ESI**
  - EXTERNAL SYSTEM INTERFACE
  - Provides an interface to third-party systems for:
    - Control of streaming applications
    - Web service interface
    - Advanced import / export of meetings

- **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
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.

**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.

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.
International Conference

At large international conferences, attendees are 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 SW6000 software suite provides meeting organizers with complete control of the speaker list, agenda, voting, and interpretation.

City Council

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 modular microphone components and multi-interface unit are easy to integrate in furniture where mounting space is limited.

Audio System Components

- MXC640: Full Featured Conference Unit
- MXCIC & IH6500: Interpretation Console and Headset
- MXCSIGN: Electronic Name Sign
- DIS-CCU: Central Control Unit
- SW6000: Conference Management Software

Audio System Components

- MXCMIU: Multi Interface Unit
- DIS-CCU: Central Control Unit
- SW6000: Conference Management Software

Applications

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2. 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 modular microphone components and multi-interface unit are easy to integrate in furniture where mounting space is limited.
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.

In a courtroom the outcome of a case can rest on the ability of the judge, jury, witness, and attorneys to hear testimony clearly, but traditional sound systems often compromise intelligibility due to installation limitations. Microflex Complete puts a microphone and loudspeaker within reach of every key individual for the highest sound quality, and interfaces easily with court recording and transcription equipment.

**Audio System Components**

1. **MXCW640** Full-Featured Conference Unit
2. **MXCWAPT** Wireless Access Point and Transceiver
3. **MXCWNCS** Networked Charging Station

**System Schematics**

Recharges up to 10 SB830 batteries in 4 hours. Charge status can be monitored remotely when connected to network.

**Audio System Components**

1. **MXC615** Conference Unit
2. **DIS-CCU** Central Control Unit
3. **AN41N-XLR** Audio Network Interface

**System Schematics**

AN41N and AN41OUT 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.