

**SHURE**<sup>®</sup>

LEGENDARY  
PERFORMANCE™

# INTEGRATED SYSTEMS

FOR INSTALLED APPLICATIONS



# QUALITY, RELIABILITY, EXCELLENCE.

When the microphone is on, quality and performance matter most. Whether it's national leaders debating on the world stage, panel members conversing across a room, or an AV conference that requires pristine speech intelligibility, the expectation is flawless audio.

Since developing our first products in 1925, Shure has pursued audio perfection with an uncompromising commitment to continuously innovating and improving product performance. That has meant countless hours of engineering, testing, re-engineering, and re-testing to ensure that the most important audio moments are captured effortlessly – whatever the environment.

## WIRED CONFERENCING SOLUTIONS



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**CENTRAVERSE™**  
**INSTALLED SOUND**  
**MICROPHONES**

Audio simplicity, realized



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**MICROFLEX®**  
**MICROPHONES**

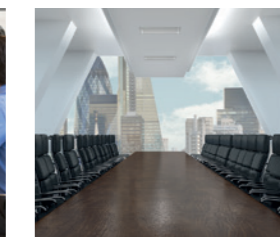
Unmatched flexibility and performance

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Vivid, lifelike audio for conferencing



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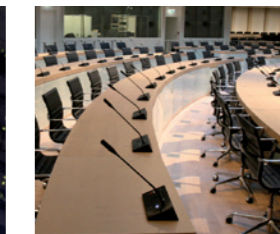
Simple connection, seamless integration



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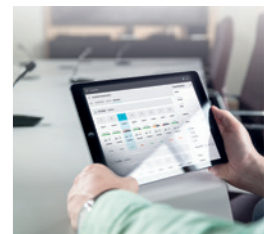
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# INSTALLED SYSTEMS THAT INTEGRATE SEAMLESSLY.

More than just microphones, today's complex install environments require complete technology solutions.

That means integrating Dante™ Digital Audio Networking compatibility, adding software management capabilities, pioneering rechargeable battery options, and simplifying system setup and operation. Shure stands at the forefront of this convergence of audio, video and IT, delivering innovative, groundbreaking technology with unmatched quality.

From simple presentation environments to complex discussion, interpretation and voting system installations – Shure helps you meet the needs of every application. Effortlessly, and with superior sound and functionality.



## PERFECT SOUND STARTS WITH SUPERIOR SUPPORT.

With the unique demands of every install environment, comprehensive support is more critical than ever.

Shure delivers, at every stage – providing the solutions and service necessary to meet any communication challenge. From an unparalleled breadth of products at the ready, right down to CAD drawings that simplify the design process, our customers can count on everything they need to move from in-development to in-service, faster.

And when more know-how is required, our team of sought-after industry experts can help navigate the challenge. Providing answers, insights and training to keep everything running seamlessly.



# WIRED CONFERENCING SOLUTIONS

Whether you require an easy-to-use, out-of-the-box solution for your meeting room or the highest intelligibility at the presenter's podium – Shure conferencing products are the right choice, wherever leaders bring their work to life.



## CENTRAVERSE™ INSTALLED SOUND MICROPHONES

CentraVerse Installed Microphones deliver high-quality plug-and-play and reliable audio, regardless of the application.

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## MICROFLEX® MICROPHONES

The Microflex Series provides a wide range of flexible microphone solutions suited for a variety of conferencing applications.

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Audio simplicity, realized.

# CENTRAVERSE™ INSTALLED SOUND MICROPHONES

From meeting rooms to houses of worship, podiums to desktops, Centraverse microphones deliver plug-and-play, reliable audio, regardless of application.

Equipped with CommShield® technology to filter out unwanted RF interference from phones and other wireless devices, they are designed with everything needed to ensure a quick and efficient sound solution.



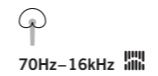
## CVB Boundary Condenser Microphone

- For use in desktop installed sound reinforcement applications
- Low-profile design fits seamlessly within any design aesthetic
- Available in cardioid and omnidirectional polar patterns and black or white color options



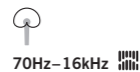
## CVG12/18 & CVG12D/18D Gooseneck Condenser Microphone

- Dual-section gooseneck provides full articulation and easy placement options
- Ideal for use in corporate facilities and government institutions
- CommShield® Technology guards against unwanted RF interference from portable wireless devices
- Available in S (switch) and RS (light ring/switch) versions
- Each available in three configurations:
  - With inline preamp only
  - With inline preamp and mute switch/LED indicator
  - With inline preamp, mute switch, and light ring
- Available in 12- and 18-inch versions
- CVG models include snap-fit windscreen and flange mount (CVD desktop base available separately)
- CVGD models include snap-fit windscreen and integrated desktop base



## CVO Overhead Condenser Microphones

- Designed for overhead sound reinforcement applications
- Integrated wire aiming hanger for optimal placement above choirs and other ensembles with minimal effort



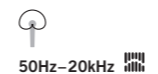
## CVD Desktop Base

- Sleek desktop base compatible with all Centraverse 305 mm (12") and 457 mm (18") gooseneck microphones
- Includes a 305 mm (12") attached cable



## CVL Lavalier Microphone

- Low profile lapel microphone for spoken word applications
- Available in cardioid polar pattern with tailored response for speech
- Includes a 1.8 m (6') attached XLR cable



WITH **CommShield® RF Filtering Technology**

- Guards against unwanted RF interference from wireless devices (smartphones, etc.)
- High resistance to intense nearby radio signals

KEY:

**Polar Pattern**

Cardioid    Supercardioid    Omnidirectional    Bidirectional

**Frequency Response**

Tailored    Flat



Unmatched flexibility and performance

# MICROFLEX<sup>®</sup> MICROPHONES

Combining sleek, low-profile aesthetics and superior sound quality, Microflex microphones deliver a high standard of quality and efficiency. Each condenser microphone is engineered to withstand high usage and is equipped with CommShield<sup>®</sup> Technology to guard against radio interference from phones and other wireless devices. They deliver total flexibility across a wide variety of installed audio applications.



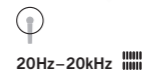
## MX150 Subminiature Lavalier Microphone

- Professional electret condenser microphone is ideal for applications requiring low-profile placement
- Uncompromising sound quality and high reliability for corporate lectures, AV teleconferencing, and sound reinforcement
- Fully compatible with all Shure wireless systems



## MX153 Earset Headworn Microphone

- Professional subminiature earset microphone is ideal for applications in which improved gain-before-feedback over lavalier microphones is desired
- Exceptional speech clarity makes it ideal for corporate presentations, AV conferencing, and live sound reinforcement



## MX183/184/185 Lavalier Microphone

- Natural sound in a convenient, low-profile form factor
- Attaches to a tie or lapel for freedom of movement in any situation involving voice reproduction
- Available in three polar patterns and compatible with all Shure wireless platforms:
  - MX183 Omnidirectional
  - MX184 Supercardioid
  - MX185 Cardioid



## MX202 Overhead Microphone

- Capture sound conveniently and unobtrusively from above
- Compact and flexible, with 4" (102 mm) goosenecks and versatile condenser cartridges for accurate sound reproduction in any setting
- Preamp options available
- Easy installation in ceilings or on microphone stands



## MX391/392/393 Boundary Microphone

- Slim design and superior sound reproduction for conference room solutions
- Programmable, silent membrane switches, interchangeable cartridges, logic inputs and outputs, and LED indicators
- MX392BE with bottom exit option available



## MX395 Low Profile Boundary Microphone

- Table microphone is ideal for environments where minimal presence is prioritized
- Delivers exceptional sound pickup while barely being noticed
- Choose from a selection of colors and pickup patterns for customized table installations



## MX396 Multi-Element Boundary Microphone

- Unique and versatile microphone for conference room installations
- Clean and simple appearance
- Available in two or three element configurations, combining the coverage of multiple microphones into one compact package



## MX405/410/415 Gooseneck Microphone

- Unsurpassed style and performance for conference rooms and similar applications
- Available in 5", 10", and 15" lengths (127, 254, and 381 mm)
- Available with desktop or mounted bases, wired or wireless options, single or dualflex options and interchangeable cartridges
- All models are fully compatible with the MX890 and Microflex Wireless MXW8 and ULXD8 desktop bases
- Available with surface mount preamp, less preamp with light ring, less preamp with bi-color status indicator



## MX412/418 Gooseneck Microphone

- Provide the added length and flexibility needed for environments such as lecterns, pulpits, and courtrooms
- High sensitivity with balanced, transformerless output for maximum resistance to electromagnetic hum and RF interference, even over long cable runs



## MX690 Wireless Boundary Microphone

- Offers total freedom of placement with no holes to drill or cables to run for installation
- Ideal for conference and meeting spaces that require flexibility and high performance
- Compatible with Shure SLX<sup>®</sup> wireless systems, including the SLX4L receiver with logic output for applications requiring logic functionality (see p. 20)



## MX890 Wireless Desktop Base

- Designed for use with MX405, MX410, and MX415 Microflex<sup>®</sup> Gooseneck Microphones
- Fully compatible with SLX<sup>®</sup> wireless systems, including the SLX4L wireless receiver with logic output for applications requiring logic functionality (see p. 20)



All Microflex models equipped with CommShield<sup>®</sup> RF Filtering Technology

- Guards against unwanted RF Interference from wireless devices (smartphones, etc.)
- High resistance to intense nearby radio signals

KEY:

Polar Pattern			
Frequency Response			





# AV CONFERENCING & COLLABORATION

Today's complex audio environments require complete technology solutions, integrating Dante™ Digital Audio Networking, software management capabilities, intelligent rechargeable battery options, and simple system set-up and operation.

Shure stands at the forefront of this convergence of audio, video, and IT, delivering innovative technology with superior sound and functionality.



## MICROFLEX® WIRELESS SYSTEMS

Microflex® Wireless is a system of advanced conferencing products that includes boundary, gooseneck, bodypack, and handheld microphone options, audio network interfaces with analog and digital connections, control software that enables the remote adjustment and monitoring of system settings, and intelligent rechargeable transmitters and charging stations.

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## MICROFLEX® ADVANCE™ ARRAY MICROPHONES

The networked array microphone system is a versatile and elegant AV conferencing solution that discreetly and precisely captures the richness of the human voice.

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Vivid, lifelike audio for conferencing

# MICROFLEX<sup>®</sup> WIRELESS SYSTEMS

Developed with contemporary working and learning spaces in mind, the Microflex Wireless platform provides flexible, elegant solutions for capturing and managing clear, natural sound in AV conferencing environments. Simple to configure and completely scalable, multiple systems can be managed, monitored, and controlled on-site or remotely from a laptop or web browser. Microflex Wireless is an ideal choice for almost any environment, whether it's one room, several floors, or multiple buildings.



## MXW1 Hybrid Bodypack Transmitter



- Integrated omnidirectional microphone is perfect for picking up speech while the bodypack is on a lanyard or tucked into a shirt pocket
- Encrypted transmission offers security
- Input jack connects an ear-worn or lavalier-style microphone
- Belt clip easily attaches to clothing

## MXW2 Handheld Transmitter



- Vivid, lifelike sound and intelligent, wireless performance for presentation and conferencing applications
- Encrypted transmission offers security
- Advanced rechargeability provides convenience
- Lightweight, durable construction and integrated antenna for effortless use
- Available with trusted Shure microphone capsules, including the legendary SM58<sup>®</sup>, SM86, Beta 58A, and VP68

## MXW6 Boundary Transmitter



- Low-profile design allows flexible placement on any surface in front of one or multiple speakers
- Cardioid or omnidirectional polar pattern options deliver pristine audio quality
- Encrypted transmission provides security
- Advanced rechargeability for convenience
- Earphone output for return channel audio

## MXW8 Gooseneck Base Transmitter



- Stylish, contoured design with minimal footprint plus LED options
- Encrypted transmission for security
- Accepts Microflex gooseneck microphones available in multiple lengths and polar patterns

## MXWAPT2/APT4/APT8 Access Point Transceiver



- 2-, 4- or 8-channel wireless access point is ideal for environments where low visibility is preferred
- Up to 80 (region-dependent) compatible channels (up to 160 audio channels in High Density mode)
- Automated frequency coordination assigns clean frequencies to wireless microphones and manages two-way wireless transmission of encrypted audio and control signals
- Power to the unit and Dante<sup>™</sup> digital networked audio are both supplied over a single Ethernet cable to simplify installation

## MXWNCS2/NCS4/NCS8 Networked Charging Station



- 2-, 4- or 8-port networked charging station designed to complement boardroom aesthetics
- Easily connects between conference room credenzas and AV rack closets over Ethernet via a single Cat5e cable
- Front panel LEDs display battery charge while remaining runtime and charge levels can be monitored from any networked computer via the control software
- MXWNCS2 attaches to wall or podium with included mounting bracket
- MXWNCS2 for MXW1/2/6 only



## MICROFLEX<sup>™</sup> Wireless Control Software

- Makes managing even the most complex conferencing environments simpler than ever
- Browser-based application enables comprehensive, real-time remote monitoring and control of all Microflex<sup>®</sup> Wireless devices
- Monitor and adjust microphone levels, view real-time battery charge status, alter muting preferences, and pair a spare backup microphone and more, without any extra software to install
- Allows for custom integration with Crestron<sup>®</sup>, AMX<sup>®</sup>, and other programmable touchscreen controllers, and readily interconnects with teleconferencing audio and other sound processors
- Password protectable and accessible from any networked PC or Mac



## SystemOn Audio Asset Management Software

- Centralized monitoring and control
- Instantly notifies the AV/IT administrator of low battery and missing devices
- Offers remote muting, device identification, and single-view audio gain adjustment
- Allows remote Microflex<sup>®</sup> Wireless transmitter linking (coming soon)
- Provides real-time room status for help desk
- Delivers offline system status notifications via email and SMS text



More information on p. 40

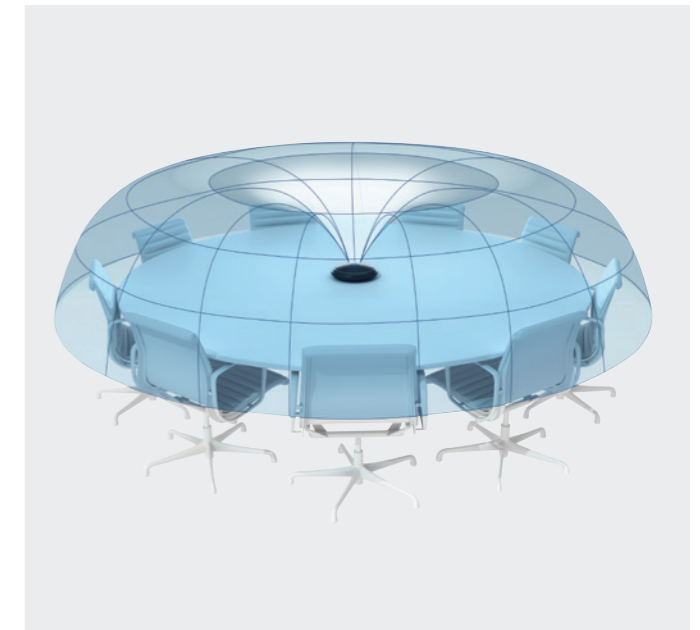




New intelligent, networked microphones

# MICROFLEX® ADVANCE™ ARRAY MICROPHONES

Shure Microflex® Advance™ array microphones feature patent-pending new technologies that fundamentally change voice coverage and capture in AV conferencing environments. Microflex Advance Ceiling Arrays and Microflex Advance Table Arrays feature new Shure software tools that enable AV conference room designers to be more creative and conference managers to be more productive.



## MXA910 Ceiling Array Microphone

- The Microflex Advance Ceiling Array is a premium networked array microphone for AV conferencing that provides configurable and invisible coverage from above for rooms of any size, shape, or application
- Revolutionary technology includes Steerable Coverage™, which utilizes up to eight independent lobes to capture high-quality participant audio from overhead
- Browser-based control software provides an intuitive user interface that allows for simple configuration of presets, templates, and polar patterns
- Designed for suspension, pole (Vesa connectivity), and flush mounting (standard ceiling tile dimensions)
- Black, white, aluminum and paintable finishes deliver seamless aesthetic integration

## A310 Flush Mount for MXA310

- Reduces height and improves appearance
- Offers paintable black and silver finishes



## A910 Hard Ceiling Mount for MXA910

- Provides a more finished appearance
- Offers paintable white surface



## MXA310 Table Array Microphone

- The Microflex Advance Table Array is a premium networked array microphone that provides versatile and adjustable coverage areas in elegant, low-profile tabletop solutions
- Within the onboard DSP Utilities, Shure's proprietary Steerable Coverage™ technology deploys up to four discrete simultaneous coverage zones around a table and utilizes the innovative new "toroid" pattern (see picture p. 15) to reject unwanted artifacts, such as overhead noise from projectors, air conditioning, or other sources. The array features cardioid, supercardioid, hypercardioid, omnidirectional, bi-directional, and toroid polar patterns

- Browser-based, graphical user interface provides a quick set-up and configuration of microphone parameters
- Touch-sensitive mute button is configurable for toggle, push-to-mute, push-to-talk, or disable settings, or to send controls to external devices



### Both arrays feature:

- Shure DSP Utilities (see grey box on p. 17)
- Single Ethernet cable connectivity for audio, control, and PoE
- Dante™ Digital Audio Networking
- Software-based configuration templates
- 10 configuration presets
- Browser-based remote control
- Third-party control string APIs, including Crestron and AMX
- CommShield® RF immunity
- Configurable LED indication (color, brightness, and more)
- Black, white, and aluminum finishes

## DSP Utilities

Both arrays include the Shure DSP Utilities, an expanded toolset of proprietary DSP tools that optimize voice quality by reducing room noise and improving speech intelligibility.

- **Steerable Coverage™**  
Configure and control incredibly accurate polar patterns
- **Echo Reduction** (Ceiling Array only)  
Advanced signal processing helps to reduce echo and is most beneficial for systems without distributed (per channel) AEC

### • Automatic Mixing

Increases presence and reduces noise pickup and transmission

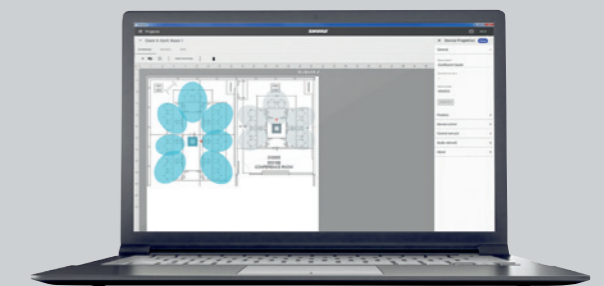
### • Parametric Equalization (PEQ)

Ceiling Array: 4 Band C/S PEQ per channel  
Table Array: 4 Band C/S PEQ, assignable to any one channel at a time



## Designer System Configuration Software

- Allows system integrators, designers, and sales support staff to create system configurations off-line and then import those settings to the hardware on-site
- Enables multiple "virtual" MXA910's to be arranged on top of an imported image, such as a room layout diagram
- Provides a convenient way to organize MXA910 installations for multiple clients, buildings, and rooms
- Enables the sending of device preset files to someone on-site for import into the device user interface





# PRESENTATION

Shure offers a wide range of high-class wireless systems for demanding installed applications. Get the exact system for your individual requirement, knowing it's backed by superior sound quality, reliability, and durability.



## BLX-R®

BLX-R Wireless Systems are cost-efficient and combine easy installation, set-up, and operation in a rack-mountable, durable construction.

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## SLX®

SLX, the out-of-the-box wireless solution for installed applications, allows for fast set-up and worry-free operation at the touch of a button.

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## QLX-D™

Combining professional features with simplified set-up and operation, QLX-D Digital Wireless offers outstanding wireless functionality for installations and live sound events.

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## ULX-D™

ULX-D Digital Wireless offers an expansive set of professional features for demanding installed applications.

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## AXIENT DIGITAL®

Axient Digital Wireless delivers an unprecedented level of signal stability and audio clarity, plus flexible hardware options, advanced connectivity, and comprehensive control.

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Wireless freedom made simple

# BLX-R™ WIRELESS SYSTEMS

Easy, accessible, and reliable Shure BLX-R™ wireless systems combine professional-quality sound with simple set-up and an intuitive interface for performance you can trust right out of the box. Precision-built and available in a variety of handheld, lavalier, and headset configurations, it's the ideal solution for smaller installed audio applications requiring all the essentials of wireless audio.

## BLX1 Bodypack Transmitter

- Rugged, yet lightweight construction
- Tactile on/off switch, adjustable gain control, easy frequency matching, and LED-display power and battery status
- TQG connection for use with Shure lavalier, headset, and earset



## BLX2 Handheld Transmitter

- Lightweight, rugged construction
- Quick and easy frequency matching and LED power and battery status
- Available with PG58, SM58®, and BETA 58A® microphone capsules



## BLX4R Single Channel Receiver

- Rugged, metal construction
- Detailed audio and RF status LCD metering
- Removable antennas and microprocessor-controlled antenna diversity
- One-touch QuickScan frequency selection
- Includes rack mount hardware kit



Smart, hard-working wireless

# SLX® WIRELESS SYSTEMS

Sound installations require powerful wireless tools that can be configured quickly and used confidently. SLX® wireless systems exceed these demands with automatic set-up features and wireless fidelity. Supporting up to 20 compatible systems across multiple UHF frequency bands, SLX features patented AudioReference Companding for crystal-clear sound that integrates seamlessly in almost any installation environment.

## SLX1 Bodypack Transmitter

- Backlit LCD screen with sturdy belt clip
- For use with a variety of SLX Wireless systems, including lavalier and headworn



## SLX2 Handheld Transmitter

- Features a timed, backlit LCD display, frequency and power lockout, and mute functionality
- Interchangeable microphone capsules, including BETA 87A, BETA 87C, BETA 58A®, SM86, and the legendary SM58®



## SLX4/SLX4L Diversity Receiver

- Delivers unprecedented ease of use
- Automatic frequency selection and automatic transmitter set-up
- Rack hardware and detachable antennas included for immediate installation right out of the box
- Available with logic output (model SLX4L) for use with echo cancellation software and remote battery life monitoring
- Compatible with MX690 Boundary transmitter and MX890 Desktop transmitter (see p. 11)



Secure digital wireless

# QLX-D™ DIGITAL WIRELESS SYSTEMS

Shure QLX-D™ Digital Wireless is the clear choice for exceptionally detailed wireless audio in widely diverse and demanding environments. A highly flexible system featuring streamlined set-up and operation, QLX-D™ boasts impressive RF efficiency to get more channels on air using less spectrum, while the rugged, metal construction withstands the rigors of constant use. From corporate seminars to music clubs, classroom lectures to houses of worship, Shure QLX-D™ Digital Wireless has it covered, delivering confident performance, no matter the venue.

## QLXD1 Bodypack Transmitter

- Rugged, metal construction
- Uncompromising audio quality and RF performance
- AES-256 encryption for secure transmission
- Advanced rechargeability options



## QLXD2 Handheld Transmitter

- Integrated antenna
- Rugged, metal construction
- Uncompromising audio quality and RF performance
- AES-256 encryption for secure transmission
- Advanced rechargeability options
- Interchangeable microphone capsules, including BETA 87A, BETA 87C, BETA 58A®, SM86, SM87A, KSM8, KSM9, KSM9HS, and the legendary SM58®



## QLXD4 Digital Receiver

- Transparent, 24-bit digital audio
- 20 Hz – 20 kHz frequency range\*
- 120 dB dynamic range
- No transmitter gain adjustment needed
- Up to 72 MHz overall tuning bandwidth\*\*
- 22 compatible channels per 8 MHz TV channel
- More than 60 preset compatible channels per frequency band\*\*
- AES-256 encryption
- Ethernet networkable receivers
- Automatic channel scan
- Clean frequencies found with Network Scan
- IR Sync
- AMX/Crestron® control system-ready
- Compatible with ShurePlus™ Channels mobile app and Wireless Workbench® control software
- Remaining battery life displayed in hours and minutes when Shure SB900A is used
- Compatible with ULXD6 Boundary Transmitter and ULXD8 Gooseneck Transmitter (see p. 23)



\*Microphone dependent  
\*\*Region dependent  
Crestron® is a registered trademark of Crestron Electronics, Inc.





Uncompromising digital wireless,  
Dante-enabled

# ULX-D™ DIGITAL WIRELESS SYSTEMS

A breakthrough in wireless performance, ULX-D™ Digital Wireless incorporates a collection of technological innovations into one easy-to-use wireless system. Specifically designed for high-channel-count applications, ULX-D™ features Dante™ Digital Audio Networking\* and enables up to 160 channels in a 72 MHz band. By offering an unparalleled mix of sound quality, RF performance, scalable hardware solutions, and intelligent battery technology, these systems define the next generation of digital wireless excellence.



## ULXD1 Bodypack Transmitter

- Durable, lightweight aluminum case
- Uncompromising audio quality and RF performance
- AES-256 encryption for secure transmission
- Advanced rechargeability options
- Lemo3 version available



## ULXD2 Handheld Transmitter

- Integrated antenna and durable, lightweight aluminum body
- Uncompromising audio quality and RF performance
- AES-256 encryption for secure transmission
- Advanced rechargeability options
- Interchangeable microphone capsules, including BETA 87A, BETA 87C, BETA 58A®, SM86, SM87A, KSM8, KSM9, KSM9HS, and the legendary SM58®



## ULXD4/4D/4Q Digital Receiver

- Uncompromising wireless tailored for professional sound reinforcement
- Single, dual, and quad channel receiver options easily scale to any size installation
- 24-bit/48 kHz digital audio quality, efficient and intelligent RF performance, and AES-256 encryption



ULXD4 Digital Wireless Receiver



ULXD4D Dual Channel Digital Wireless Receiver



ULXD4Q Quad Channel Digital Wireless Receiver

\* Dante™ available with ULXD4D and ULXD4Q models only

## ULXD6 Boundary Transmitter

- AES-256 encryption for secure transmission
- Very low latency (<3 msec)
- Advanced rechargeability options
- Configurable Mute button and Mute LED behavior
- Low-profile design for flexible placement on any surface in front of one or multiple speakers
- Cardioid or omnidirectional polar pattern options



## ULXD8 Gooseneck Base Transmitter

- Use with MX405, MX410 and MX415 gooseneck microphones (see p. 11)
- AES-256 encryption for secure transmission
- Very low latency (<3 msec)
- Advanced rechargeability options
- Configurable Mute button and Mute LED behavior



## SBC450 4-Bay Networked Charging Station

- Compatible with ULXD6 and ULXD8 transmitters



## SBC850 8-Bay Networked Charging Station

- Compatible with ULXD6 and ULXD8 transmitters

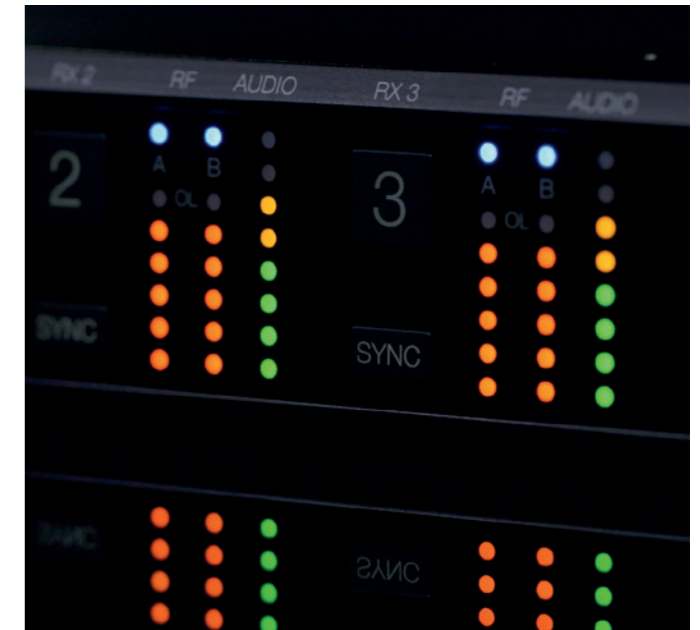




Accessible, scalable, powerful

# AXIENT® DIGITAL

Axient® Digital ensures maximum stability, range, and clarity for uncompromising audio with outstanding signal quality in even the most complex, congested environments. With two transmitter series to choose from – both compatible with a shared receiver platform – Axient® Digital is a scalable wireless system that provides incomparable sound for a wide range of applications and settings.



## AD1 Bodypack Transmitter

- Two transmission modes: Standard for optimal coverage and High Density for maximum system channel count and robust coverage
- Encryption-enabled, secure transmission
- External contacts for docked charging
- Rechargeable battery



## AD2 Handheld Transmitter

- Two transmission modes: Standard for optimal coverage and High Density for maximum system channel count and robust coverage
- Encryption-enabled, secure transmission
- Frequency and power lockout
- External contacts for docked charging
- Interchangeable microphone capsules



## ADX1 Bodypack Transmitter

- Advanced control menu, removable antenna, and fully concealed buttons and switch
- External contacts for docked charging
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance
- Rechargeable battery



## ADX2FD Frequency Diversity Handheld Transmitter

- Able to transmit RF signal on two discrete carriers
- Optional 50mW high-power mode drives a single frequency with increased power
- External contacts for docked charging, with optional fully-covered radome
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance
- Rechargeable battery for convenience
- Interchangeable microphone capsules for all applications



## AD4D/AD4Q Two-Channel Receiver/Four-Channel Receiver

- Compatible with all AD and ADX transmitters
- Wide tuning range up to 184MHz
- True digital diversity reception per channel for drop-out resistance
- Optional DC module available to support redundant power



## SBRC Rackmount Charging Station

- Eight Li-ion batteries accommodated in a single rack space
- Front-panel display for battery parameters including time-to-full in hours and minutes and percent-of-capacity



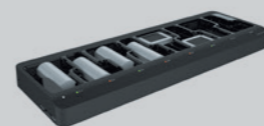
## SBC800 8-Bay Charger

- SB900A batteries (AD1 and AD2)



## SBC840 8-Bay Charger

- SB910 batteries (ADX1)
- SB920 batteries (ADX2 and ADX2FD)
- Remote monitoring via Shure Wireless Workbench®



## SBC840M 8-Bay Charger

- SB910M batteries (ADX1M micro-bodypack)
- Remote monitoring via Shure Wireless Workbench®



## ADX2 Handheld Transmitter

- External contacts for docked charging, with optional fully-covered radome
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance
- Rechargeable battery
- Interchangeable microphone capsules



## ADX1M Micro-Bodypack Transmitter

- Internal antenna
- Detachable belt clip for comfort
- Membrane-style buttons and LEMO connection protect against sweat and moisture ingress
- Rechargeable battery for convenience
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance



## SBC200 2-Bay Dock Charger

- SB900A batteries (AD1 and AD2)



## SBC240 2-Bay Dock Charger

- SB910 batteries (ADX1)
- SB920 batteries (ADX2 and ADX2FD)
- Remote monitoring via Shure Wireless Workbench®



## AXT600 Spectrum Manager

- Scans and analyzes wide-band UHF spectrum and coordinates compatible frequencies
- Scans and analyzes the global UHF spectrum (470-952 MHz) in approximately one minute
- Continuously monitors, evaluates, and displays backup frequencies in real-time



## AD610 Diversity ShowLink® Access Point

- Delivers wireless network connectivity between all linked transmitters and receivers
- Enables real-time wireless remote control of up to 16 transmitters per access point
- Offers ability to adjust gain, change frequencies, mute signals, and more





# NETWORKED AUDIO PROCESSING

Shure Networked Audio Processors, Interfaces, and Mixers enhance collaboration by offering a high-quality audio conferencing solution and the most intelligible meeting audio for natural communication and better interaction in AV conferences with remote team members.

With silent and small form factors, networked audio processing products can be installed quickly and discreetly behind a TV screen or under the table, without any audible fan noise.



## SIGNAL PROCESSORS

Signal processors offer DSP algorithms optimized for AV conferencing applications with Microflex® Advance™ and Microflex® Wireless microphones for a complete, high-quality audio experience.

p. 28



## AUDIO NETWORK INTERFACES

Audio network interfaces provide simple connection of Dante and analog microphones for seamless integration with existing AV/IT infrastructures.

p. 30



## AUTOMATIC MIXER

Automatic mixers offer easy operation of many microphone channels simultaneously.

p. 31



Perfectly paired conferencing audio

# SIGNAL PROCESSORS

The IntelliMix® P300 Audio Conferencing Processor can be seamlessly integrated with the Shure MXA910 Ceiling Array and the MXA310 Table Array Microphones. The USB Audio Network Interface with Matrix Mixing is compatible with MXA310 Table Array Microphones.

Working in perfect synergy with Microflex Advance Microphones, the P300-IMX and ANIUSB-MATRIX deliver a hassle-free, cost-effective conferencing audio system. They offer pre-defined templates that enable set-up in seconds and an unobtrusive form factor for discreet installations. Versatile features and connectivity options provide freedom of choice when joining a room video system or soft codec, or when connecting laptops and mobile devices.



## P300-IMX

IntelliMix® Audio Conferencing Processor

- Facilitates communication and collaboration through echo- and noise-free conference room audio
- Supports up to 8 Dante microphone channels, connected over a single network cable
- Improve speech intelligibility and enable full duplex communication with proprietary Shure IntelliMix DSP algorithms by providing:
  - Per-channel Acoustic Echo Cancellation
  - Noise Reduction
  - Automatic Gain Control
  - Parametric Equalization
  - IntelliMix® Automatic Mixing and Matrix Mixing
- Allows soft codec audio/video conferencing with BYOD support for USB and mobile devices
- Simplifies programming and reduces set-up time with browser-based user interface with pre-defined templates
- Eliminates need for outboard power supply through Power-over-Ethernet (PoE+)
- Offers a compact form factor, making it easy to mount under tables or in credenzas, without the need for equipment racks and long cable runs

## ANIUSB-MATRIX

USB Audio Network Interface with Matrix Mixing

- This budget-friendly companion to premium microphone solutions leverages the integrated processing functionality of existing video codecs in the room
- Connects 4 Dante audio inputs and 1 analog input to a room audio/video conferencing system or PC-based AV conferencing app
- USB connectivity allows the use of soft codec AV conferencing applications like BlueJeans, Skype for Business, and others
- Matrix Mixer provides flexible signal routing, while PEQ (Parametric Equalization) and Limiter allow precise control of meeting audio
- Browser-based user interface enables remote control of device functionality
- Power-over-Ethernet (PoE) eliminates the outboard power supply with single network cable connectivity
- Included mounting tray installs easily and allows secure placement of the device under a table





Simple connection, seamless integration

# AUDIO NETWORK INTERFACES

A selection of Audio Network Interfaces enables you to customize any size sound reinforcement installation with the right combination of features. They offer the ideal performance, connectivity, and affordability for audio/video conferencing installations when a premium microphone solution is desired, and acoustic echo cancellation of an AV conferencing codec will be used.



## ANI22 | ANI4IN | ANI4OUT

### Audio Network Interfaces

- ANI22: Connects up to 2 mic/line analog signals to a Dante Network and 2 Dante digital audio signals to mic/line analog signals
- ANI4IN: Connects up to 4 mic/line analog signals to a Dante Network
- ANI4OUT: Converts up to 4 Dante digital audio signals to mic/line analog signals
- Available with block and XLR connectors
- Summing Modes mix multiple sources down to a single channel for easier installation
- Browser-based user interface allows remote control of hardware settings
- Third-party control system compatible
- Power-over-Ethernet (PoE) eliminates need for outboard power supply
- Compact form factor is easy to mount under table or in credenza
- LEDs on the front panel indicate hardware status



## MXWAN14 & MXWAN18

### Audio Network Interfaces

- Converts Dante Microphone systems to analog for connection to downstream devices
- With 4 or 8 block connector channel outputs
- Versatile 4 port gigabit Ethernet switch
- Browser-based user interface
- Rack-mountable, with front panel controls for easy adjustment of input and output levels
- Provides Power-over-Ethernet (PoE) to Microflex Advance and Microflex Wireless systems
- MXWAN14 converts 1 analog signal to Dante / MXWAN18 converts 2 analog signals to Dante



Seamless mixing, advanced control

# DIGITAL AUDIO MIXER

The Shure SCM820 Mixer is the quickest, simplest, and most effective way to set-up a multiple-microphone room. Without clipping a syllable, it silently activates only the microphones being addressed and automatically adjusts each microphone's threshold to changes in background noise. It's technology that's networkable, configurable, and as simple to operate as opening the box, plugging it in, and connecting the microphones.



## SCM820

### Digital IntelliMix® Automatic Mixer

- Multiple I/O configurations and networking options provide analog and digital connectivity between devices
- Two independent mixers provide flexibility and enable use in advanced and complex applications
- Smart, simple controls with intuitive hardware interface and informative LED metering
- Patented Shure Digital Feedback Reduction (two channels)
- Convenient browser-based remote control



#### IntelliMix® Technology

Seamless, powerful auto-mixing



#### IntelliMix® Modes

Preset, manual, and custom modes



#### Dual Mixer Operation

One or two independent mixes



#### Dante™ Digital Audio

Multi-channel audio over Ethernet



#### Remote Control

Browser-based software



#### Model Variations

Multiple I/O configurations



#### Digital Feedback Reduction

Clear audio



# CONFERENCE AND DISCUSSION SYSTEMS

With the conference and discussion product range, Shure has designed one of the world's leading advanced conferencing systems. These high-quality audio solutions provide a complete system that facilitates, enhances, and amplifies personal, telephone-based, or online discussions, debates, and meetings. From simple tele-conferencing systems for boardrooms to voting systems in electoral chambers incorporating simultaneous translation facilities, Shure has a solution.



## DDS 5900

The Digital Discussion System provides all you need for a small- or medium-sized meeting. Elegant design, multiple control options, and plug-and-play simplicity allow users to fully focus on the event.

p. 34



## DCS 6000

The Digital Conference System is a state-of-the-art digital conference system combining microphone handling, voting, and interpretation in one system. It includes portable and flush-mounted conference units and is suitable for installations of all sizes.

p. 36



## Digital Discussion System

# DDS 5900

The Digital Discussion System provides all you need for a small- or medium-sized meeting. Elegant design, multiple control options, and plug-and-play simplicity allow users to fully focus on the event. The system consists of a central unit and single programmable multi-user unit – portable or flush mount. DDS features include 2-channel interpretation, grouping, voice activation, and encryption to make DDS 5900 a flexible, cost-effective option.

### DIS-CCU Central Control Unit

- Compatible with both DDS 5900 and DCS 6000
- Firmware is preconfigured to operate with DDS 5900 effortlessly
- Powers up to 60 conference units and controls up to 250 units
- Offers 4 selectable operation modes
- Provides TCP/IP for external control and web browser interface
- Features 2 interpretation channels and 4 group outputs
- Includes an analog emergency input



### Web Browser Microphone Control and System Set-up

- Enables configuration of central unit and control of the microphone and inputs and outputs
- Facilitates large meetings with delegate set-up and name and seat assignment capabilities



### DC 5980 P Portable Discussion Unit

- Compact, attractive table top design with soft-touch button technology
- Configurable chairman, delegate, and interpreter stations
- Exchangeable button overlay
- Lockable XLR socket for gooseneck compatibility
- Offers a stereo headphone socket
- Includes a rack mount hardware kit and high-quality loudspeaker



### DC 5900 F Flush Mount Base Unit

- Small form factor
- Easy installation and out-of-the-box set-up and operation
- Works with both DIS and Shure Microflex microphones



### FP 5921/5981 F and Overlays Front Plates

- 2 front plate options can be attached to the base unit, and touch overlays are then affixed to the front plates to enable the desired functionality
- Various touch overlay options
- Loudspeaker in separate unit available



### Microphones and Speakers Audio and Vocal Accessories

- DIS gooseneck GM 592x
- Microflex Gooseneck MX4xx LP/RLP by using adaptor AC5901(only flush mount)
- Optional LS 5900 F speaker can be connected to DC 5900 F base unit





## Digital Conference System

# DCS 6000

Clarity, precision, and reliability are absolutely essential in today's world, with important information being shared and decisions being made in conferences and meetings. The DCS 6000 Digital Conference System's innovative technology provides crystal-clear audio. Beyond a web browser interface, DCS 6000 can be controlled and managed via an extensive modular software package.



## DIS-CCU + FL6000 Central Control Unit

- Requires a feature license FL6000 upgrade to operate with DCS 6000
- Controls up to 3800 conference units
- Offers microphone control, voting, and up to 31 interpretation channels
- Basic set-up from CU via front buttons and display
- Web browser interface & optional SW6000
- Facilitates basic set-up from conference units via front buttons and display
- Provides web browser interface and optional SW6000



## DC 6190 P Conference Units without Voting Functionality

- Delegate/Chairman Unit with built-in speaker
- Lockable XLR socket to attach DIS gooseneck or shotgun microphone
- Configurable as chairman or delegate unit
- 2 channel selectors with 2 stereo headphone sockets



## DM 6680 P/DC 6990 P Conference Units with Voting Functionality

- 3- or 5-button voting, secret mode, and a chip card reader
- Channel selector and stereo headphone socket
- DC 6990 P includes a 3.5" touch screen, second channel selector and headphone socket, multi-language screen, and chairman, delegate, or dual delegate unit type configuration



## Flush Mount Units and Customization Conference Units for fixed Installations

- Chairman or delegate conference units available with integrated or separate electronics
- Voting, channel selection, and chip card functionality
- Various microphone options available
- Specific customized solutions upon request



## DIR 6000 Digital Wireless Infrared System

- Language distribution of up to 32 channels
- Digital infrared receivers for 4, 8, or 32 channels available
- Digital transmitter for 8 or 32 channels
- Digital radiator with 13 or 25 outputs
- Various headphone options available



## IH 6500 Interpreter Headset

- Lightweight, dual-sided design
- Removable ear pads
- Included adapter cables
- Meets ISO requirements
- Flexible gooseneck microphone boom pivots 270 degrees, allowing microphone to be worn on left or right side of the head
- Cardioid condenser microphone for clear intelligible speech



## MXCIC Interpretation Console Absolute clarity and accuracy for interpretation in international conferences

- 8 relay buttons and 3 outgoing languages
- Clear, logical control layout and large color information display
- Integrated loudspeaker on rear of unit
- Two 3.5 mm TRRS headset ports
- 3.5 mm TRS headphone jack
- NFC card reader and USB port for saving or recalling interpreter's personalized settings
- Braille labels and audible cues for visually-impaired interpreters
- Compliant with new ISO 20109 standards
- Integrates seamlessly with the existing DCS 6000 Digital Conference System



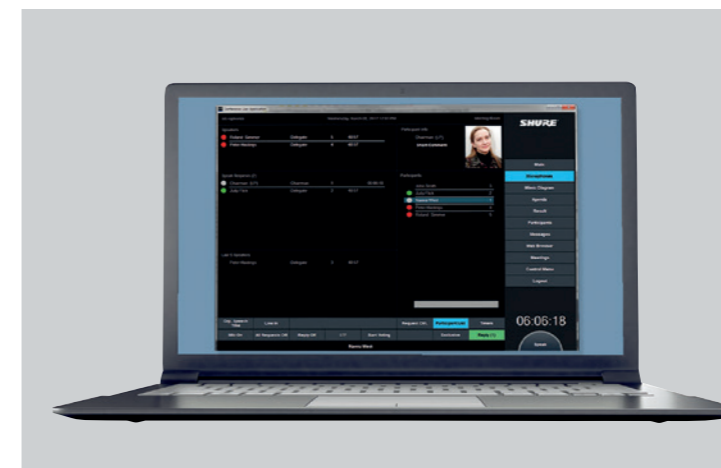
## MXCSIGN Dual-Sided E-Ink Information Display

- High-resolution e-ink display
- Default templates display one or two lines of participant information from the SW6000 Conference Management Software database, such as name, title, organization, and country
- Stand-alone name sign can be used with Shure MX, MXW, ULX-D, or other microphone solutions
- Can be placed on tables for temporary events or flush-mounted in permanent installations with included hardware
- Dual-delegate capable
- Programmable via SW6000 Conference Management Software (CAA) when connected to DCS-LAN or from Micro-USB input when used alone or via connection to DCS-LAN (loop-through)



## SW6000 Conference Management Software

- Enables configuration, control, management, and customization of every conference and meeting
  - Facilitates a comprehensive range of applications
- (see p. 42)





# SOFTWARE SOLUTIONS

Advances in technology have driven product development at an unprecedented scale and have enabled state-of-the-art software solutions to power Shure's range of networked AV microphones.

From classrooms and presentation theaters to boardrooms and video conferencing suites, Shure's software-enabled solutions simplify maintenance and provide a complete view of an entire organisation's deployment of Shure equipment, detecting problems before they become critical.



## SYSTEM ON

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## DESIGNER

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## WIRELESS WORKBENCH 6®

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## SHURE PLUS CHANNELS

p. 41

## SHURE UPDATE UTILITY

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## SHURE WEB DEVICE

p. 41

## SW6000 SOFTWARE

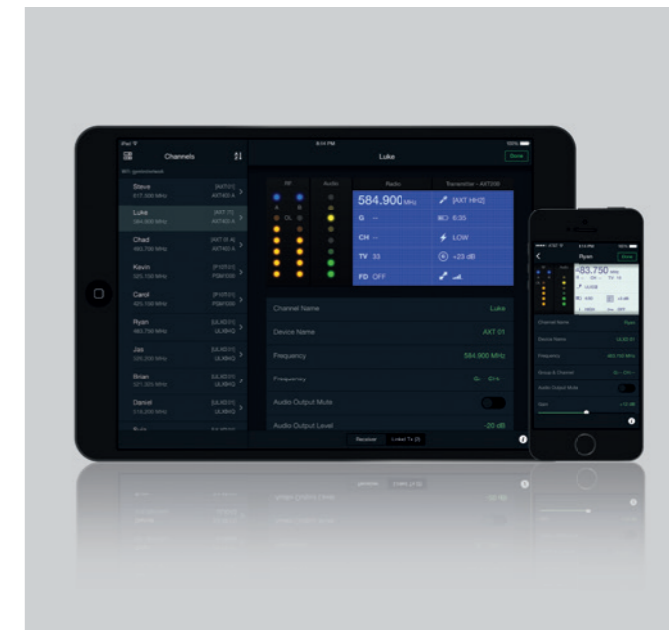
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Configuration, control, management

# SOFTWARE SOLUTIONS

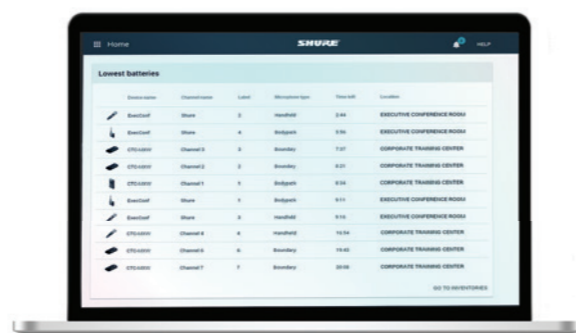
Offering advanced control and monitoring features, Shure software applications give AV and IT personnel remote control of an entire campus or enterprise from one central location. Rich feature sets are provided in real-time with intuitive user interfaces that help manage every facet of a meeting or presentation over the network. Predefined templates and presets simplify installation and set-up and optimize microphone performance.



## SystemOn Audio Asset Management Software



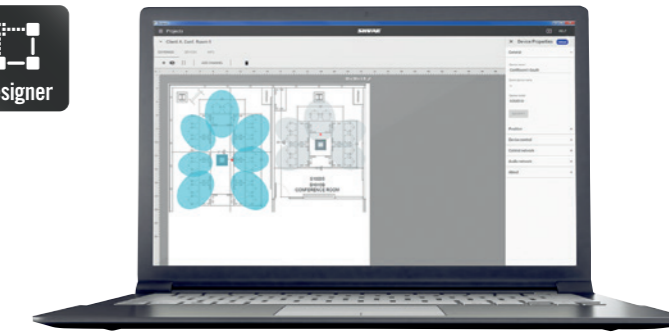
- Manages mission-critical or large-scale deployments of Shure audio hardware across corporate and higher education networks from one central platform
- Tracks battery life, audio levels, and RF/spectrum status in real-time
- Enables IT administrators and AV technicians to monitor and control Shure Microflex® Wireless, ULX-D, and SCM820 devices remotely
- Automatically discovers Shure devices on the same subnet, and devices on other subnets can be manually added
- Provides summarized status of wireless system and device attributes and captures event history
- Enables remote control and monitoring of audio gain, muting, device identification, and remote Microflex Wireless transmitter linking
- Available through a subscription model; each IP-addressable device requires one license



## Designer System Configuration Software



- Allows system to be designed offline and from anywhere, reducing configuration time on-site
- Create projects with multiple MXA910 Ceiling Arrays on top of an imported image, such as a room layout diagram
- Pickup lobes and other settings for each MXA910 can be configured and saved on the user's computer, without being connected to any MXA910 hardware
- Settings can be exported as device preset files, which can be imported into each physical MXA910 through its user interface
- Requires Windows 7 or higher



### Centralized Monitoring

- Identifies Shure devices across subnets
- Provides real-time status of system and device attributes
- Remotely controls audio gain, muting, and RF channel assignments

### Remote Response Troubleshooting

- Instant notification of low battery and missing devices to AV/IT administrator
- Remote muting, device identification, single-view audio gain adjustment, and remote Microflex® Wireless transmitter linking
- Pre-link microphones to network destination
- Real-time room status for help desk
- Provides offline system status notifications via email and SMS text

### Simple Configuration

- Streamline login by selecting users from existing enterprise directories
- Customize user access and permissions based on user role or location
- Direct link between Shure hardware and software requires zero additional programming
- Seamless availability of new features and updates
- Software language options may be customized and applied to individual account settings

## Wireless Workbench® 6 System Control Software



- Comprehensive control for networked Shure Wireless Systems, Axient®, UHF-R, ULX-D and QLX-D
- Features an advanced graphic user interface, comprehensive frequency coordination, and real-time monitoring
- Provides a rich interface to manage every facet of a performance over the network, before and during an event

## ShurePlus Channels Mobile App for iOS



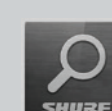
- Remote, real-time, precision monitoring and control of Shure Wireless Systems
- Delivers time-saving convenience to roam the performance space while monitoring key Shure wireless system parameters from an iOS device

## Shure Update Utility Stand-alone Application



- Streamlines the process of updating the firmware and software of compatible Shure products
- Offers a simplified interface to download the latest updates from Shure and configure Shure hardware to receive those updates

## Shure Web Device Discovery Application Web-based User Interfaces



- Discovers and launches web-based user interfaces for Microflex® Wireless, Microflex® Advance, SCM820, and ANIs
- Displays Shure devices featuring embedded web servers on the same subnet as the computer



# CONFERENCE MANAGEMENT



## SW6000 CONFERENCE MANAGEMENT SOFTWARE

### MEETING AND AGENDA MANAGEMENT

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

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

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

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

<b>CAA</b> Set-up conferences, enter delegate and agenda information, and configure components before the event	<b>CUA</b> 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.

<b>SW6000-CDA</b> 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	<b>SW6000-CAA</b> 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	<b>SW6000-CUA</b> 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

<b>SW6000-ADV</b> ADVANCED MEETING MANAGEMENT Used where more advanced controls are needed including: <ul style="list-style-type: none"> <li>Advanced Microphone Control</li> <li>Advanced Agenda Control including the ability to attach participants to subjects in the agenda and to use a web browser in the CUA</li> <li>Advanced Speech Control including meeting role dependent timers, manual speech times, group speech time and combined speech time</li> </ul>	<b>SW6000-ADV-50</b> ADVANCED MEETING MANAGEMENT Same functionality as SW6000-ADV but for maximum of 50 seats	<b>SW6000-VOTE</b> SOFTWARE ENABLED VOTING Enables the voting facility in SW6000: <ul style="list-style-type: none"> <li>Control and configuration of voting sessions</li> <li>Extensive voting control management</li> <li>Unlimited number of voting configurations</li> <li>Advanced options for calculation of results or passed/quorum options</li> <li>Casting vote from a conference unit or from the CUA</li> <li>Option for manual inserting of total voting results</li> <li>Attendance &amp; registration check options</li> <li>Option for controlling visibility of the voting result for participants</li> <li>Proxy voting option</li> <li>Voting weight option</li> </ul>
<b>SW6000-ESI</b> EXTERNAL SYSTEM INTERFACE Provides an interface to third-party systems for: <ul style="list-style-type: none"> <li>Control of streaming applications</li> <li>Web service interface</li> <li>Advanced import/export of meetings</li> </ul>		



# TECHNOLOGIES

Shure products feature a variety of cutting-edge technologies that provide integrated, powerful, reliable, and user-friendly solutions for demanding installed applications.

## INTELLIMIX®



### Automixing Functionality

- Features a unique collection of algorithms that deliver clear, intelligible sound for productive conferences
- Operates automatically, with no user interaction required for perfect operation
- Provides audio quality in any application where multiple microphones are required
- Implemented in Microflex® Advance™, P300-IMX, and SCM820

### **Noise Adaptive Threshold (NAT)**

Automatically makes adjustments to the activation threshold when the room becomes noisier or people become more active

### **Number of Open Microphones Attenuation (NOMA)**

Attenuates system gain as additional channels are opened, providing consistent output levels and better gain-before-feedback

### **Last Mic Lock-On (LMLO)**

Keeps the most recently activated microphone open until another microphone is activated

### **MaxBus**

Ensures that only one channel is open per sound source, while picking up multiple talkers simultaneously.

IntelliMix® Modes offer Gating, Gain Sharing, or Manual Mixing modes, along with modes specifically designed for Microflex® Advance™ microphones with Steerable Coverage™

### DSP Functionality

- Increase clarity and improve speech intelligibility by optimizing voice quality and reducing room noise

### **Acoustic Echo Cancellation**

Eliminates echo in conference rooms to make conversations more natural and interactive

### **Noise Reduction**

Prevents unwanted background noise from interfering with your meeting

### **Automatic Gain Control**

Makes real-time adjustments to microphone levels to accommodate loud and soft talkers

### **Matrix Mixing**

Allows any input to be sent to any or all outputs for ultimate installation flexibility

### **Parametric Equalization**

Customizes the sound signature by adjusting the frequency response, including attenuation or signals boost within a customizable frequency range

### **Limiter/Compressor**

Prevents distortion during loud program peaks without affecting normal program levels and prevents overloading the devices connected to the mixer outputs

## DIGITAL AUDIO NETWORKING



SCM820-DAN, ULX-D, Microflex® Wireless, Microflex® Advance™, P300-IMX, and ANIs can be connected through Dante™ Digital Audio Network. Dante™ offers a total solution for transporting audio over standard IP Ethernet networks.

Audinate's patented media networking technology, Dante, is a proven standard used in thousands of installations. Dante is more than just a collection of technical specifications for time synchronization, quality of service (QoS), and transport packet formats. Dante is built on existing IT standards, plus Audinate has developed several feature-rich improvements to deliver a complete networking solution.

Dante offers features and benefits including:

- Auto-discovery of devices
- One-click signal routing
- Sample-accurate timing
- Multiple sample rates

- High-quality, low-jitter audio clocks
- Latency as low as 150µs
- Support for different latencies at the same time
- Glitch-free redundancy
- Network status and monitoring
- Compatibility with existing switches or AVB switches

Dante is a complete, high performance digital media networking standard which allows true plug-and-play with label-based routing. The Dante controller SCM820 with Dante card, ULX-D, and MXW can easily be connected and controlled together.

## ENCRYPTION



Wireless audio transmission in Microflex® Wireless and ULX-D is protected by AES-256 encryption, the same security standard used in international government applications.

The AES-256 Advanced Encryption Standard is a license-free algorithm for hardware and software implementation. It codes audio data in blocks of 128-bit length with an encryption key of 256-bit length.

The standard is specified as a number of repetitions of transformation rounds converting the input plaintext into the final output of ciphertext.

AES-256 is a symmetric-key algorithm which uses the same key for both encrypting and decrypting data.

Advanced Encryption guarantees unbreachable privacy for all installations in which secure transmission is key. A new, unique, random encryption key is generated every time encryption is enabled.



# EXAMPLES OF TYPICAL CONFERENCE APPLICATIONS

One size does not fit all, as all audio installations are unique.

A standard solution does not exist for any environment, and the best solution will depend upon many factors.

Our technical team is able to provide consultative advice and assist with each installation specification.

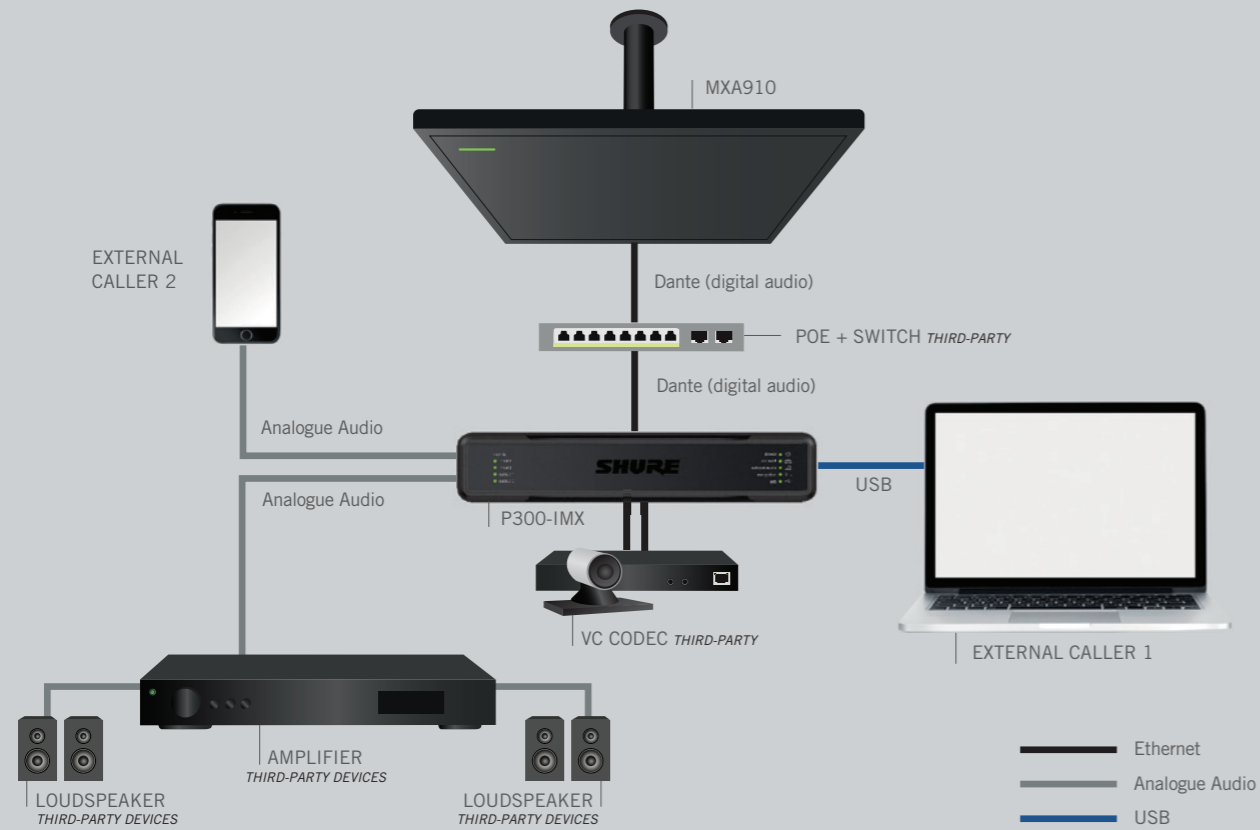
The following schematics are a selection of examples of installed solutions in a range of different environments using a variety of products from the Shure Installed Sound portfolio.





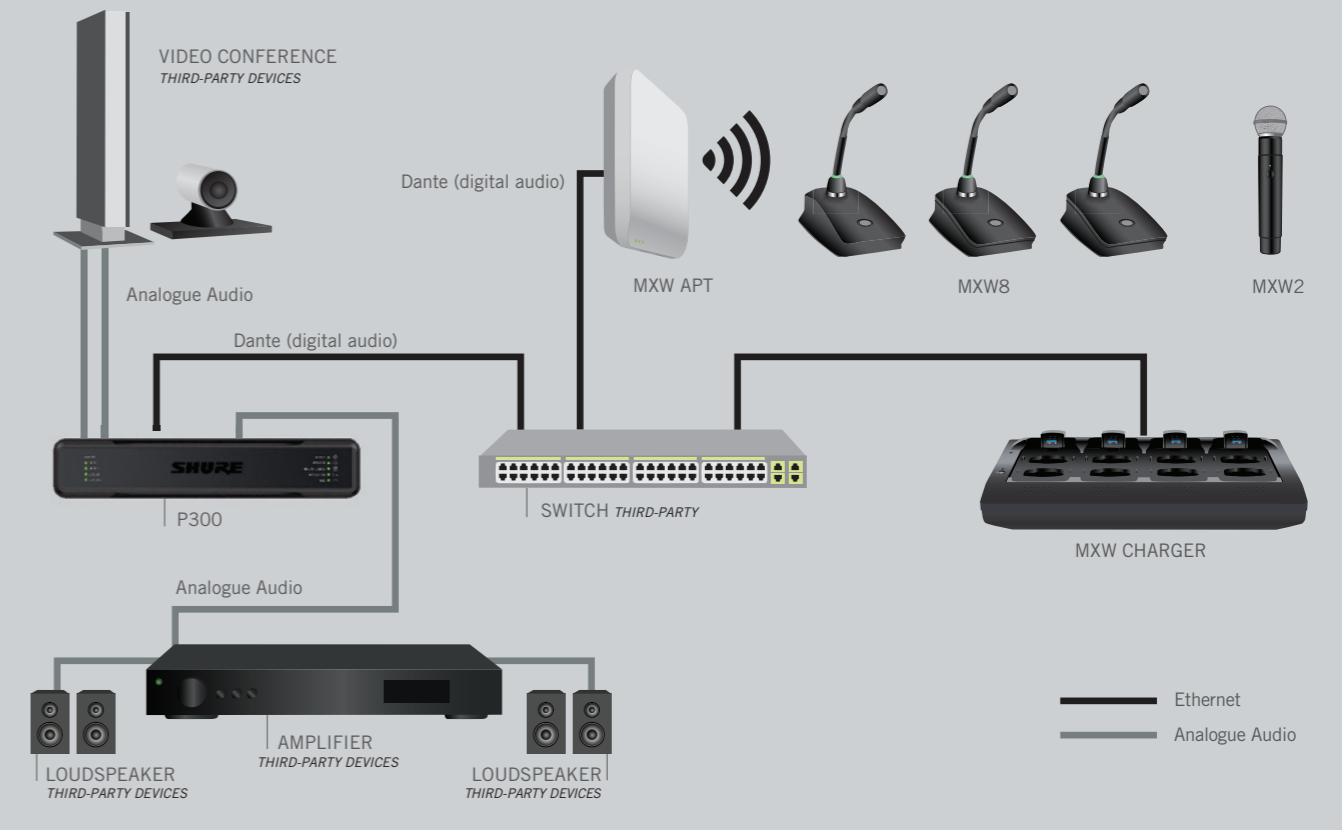
### Video Conferencing Ceiling Array

Microflex® Advance™ Ceiling Array in combination with P300-IMX and third-party devices



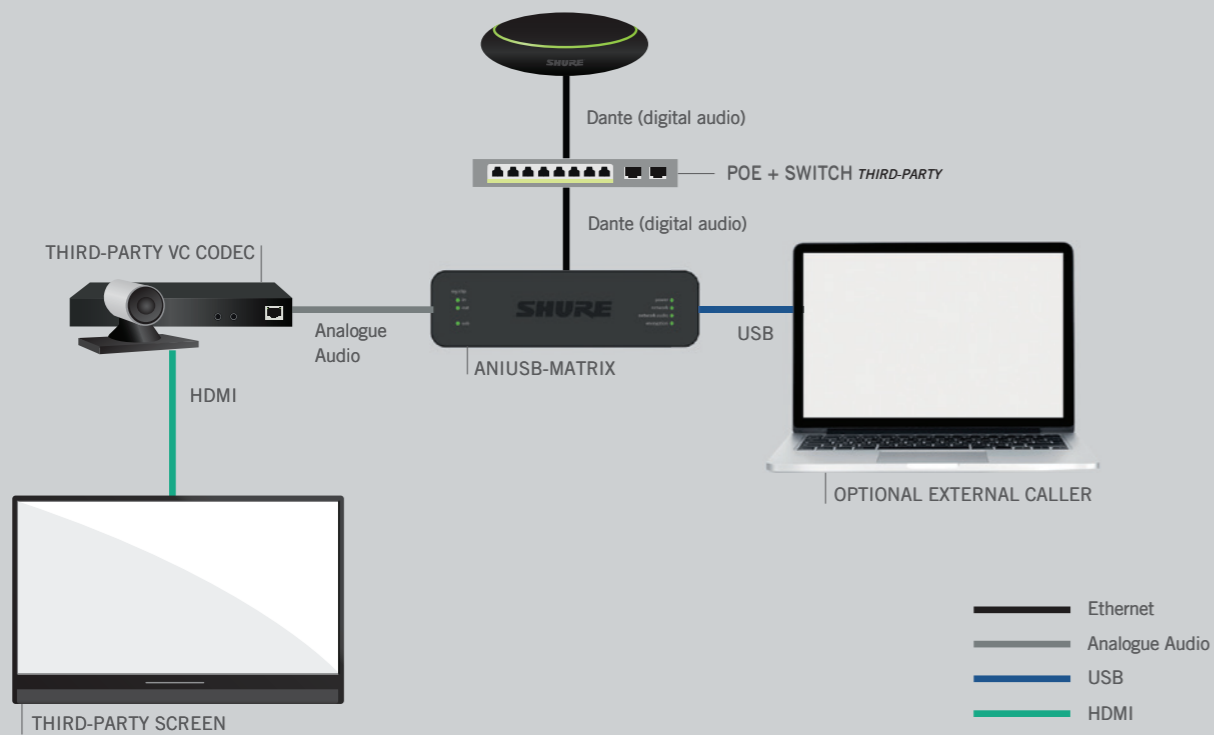
### Presentation and Video Conferencing

Microflex® Wireless in combination with P300 and third-party devices



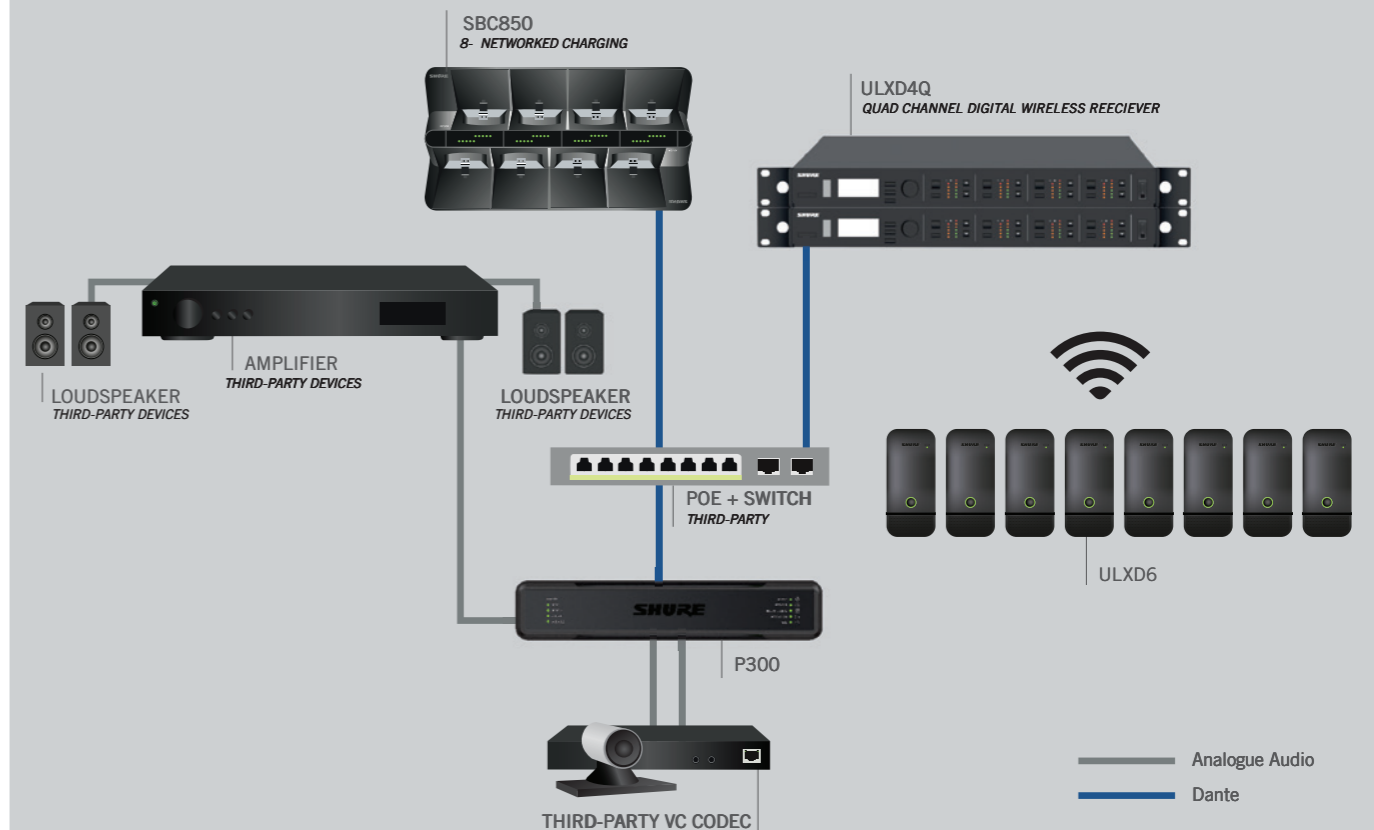
### Video Conferencing Table Array

Microflex® Advance™ Table Arrays in combination with ANIUSB-MATRIX and third-party devices



### AV Conferencing

ULX-D in combination with P300-IMX and third-party devices

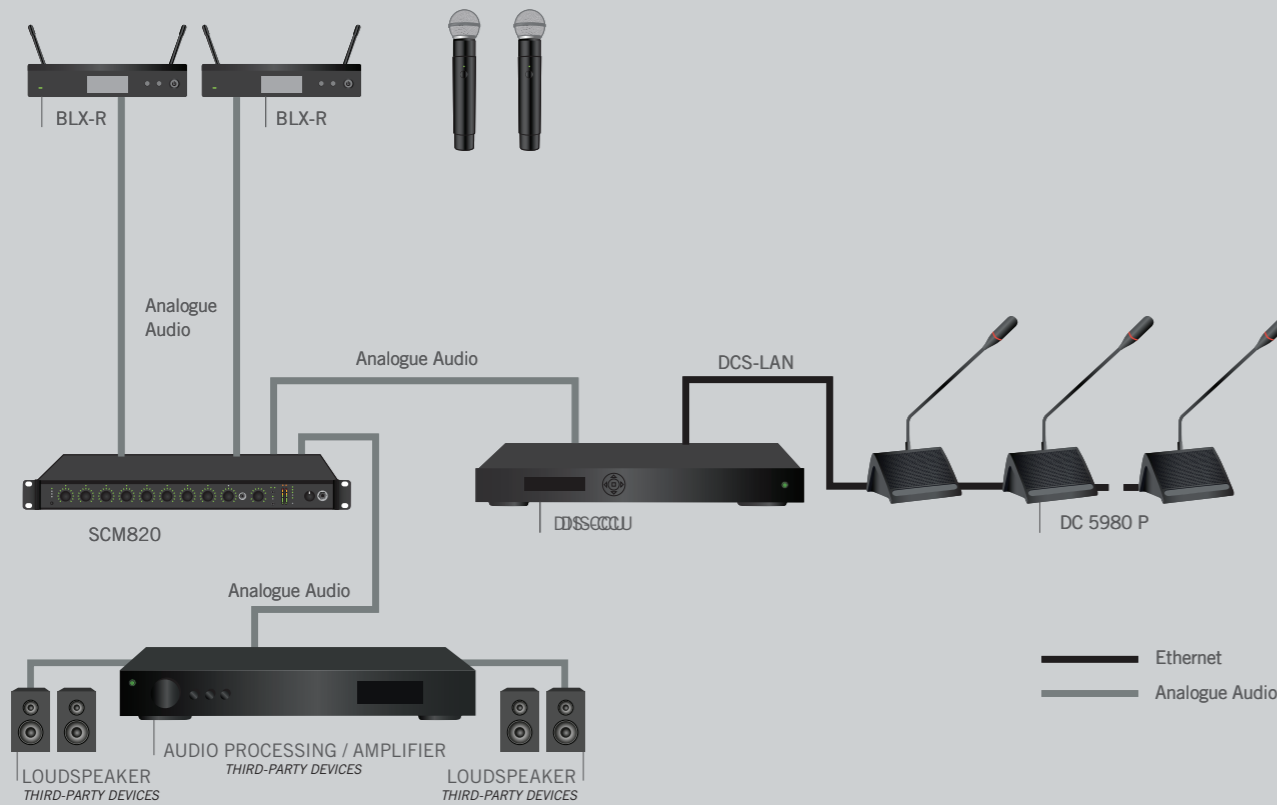




## System Schematics

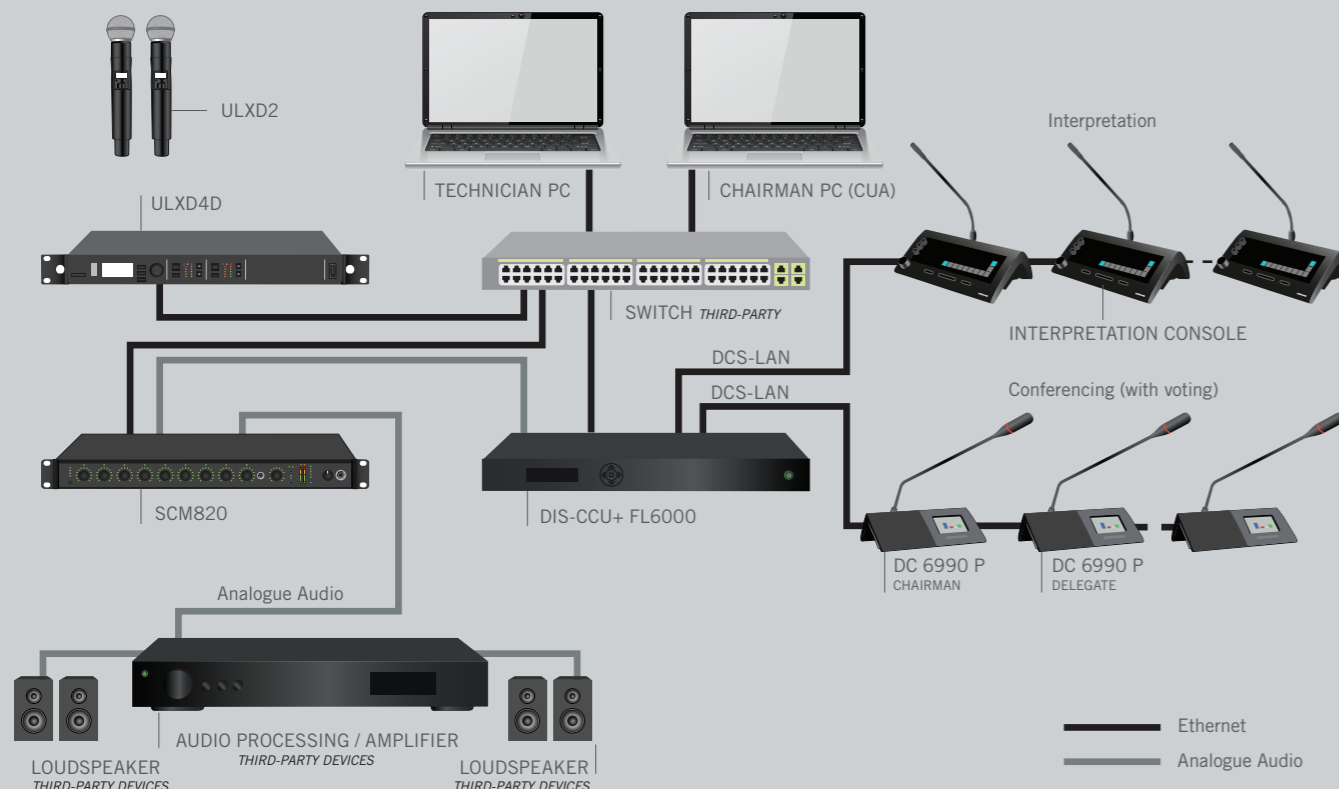
### Discussion

DDS 5900 in combination with SCM820 Mixer, BLX-R and third-party devices.



### Conference

DCS 6000 in combination with SCM820 Mixer, ULX-D and third-party devices.



## Shure Technology Partners

With a history of audio innovation that began over 90 years ago, Shure sets the worldwide standard for superior microphones and audio electronics. Shure has partnered with many of today's top technology companies in system integration to extend and enhance your audio experience.



Shure Incorporated and Audinate, Inc. announced a licensing agreement for Audinate's Dante™ digital audio networking technology in 2012. Dante networking enables multiple channels of audio to be distributed to a variety of Shure wireless devices over an Ethernet network.



Shure is proud to have joined the Cisco® Solution Partner Program as a Solution Partner. As a Solution Partner, Shure offers a complementary product offering and collaborates with Cisco to meet the needs of joint customers.



Shure Microflex® MX396 is a multi-element boundary mic for conference room installations and a premium audio front end to Crestron conferencing equipment such as the RL2. From the industry leader in smart conference room solutions, Crestron RL 2 is a complete group collaboration solution.

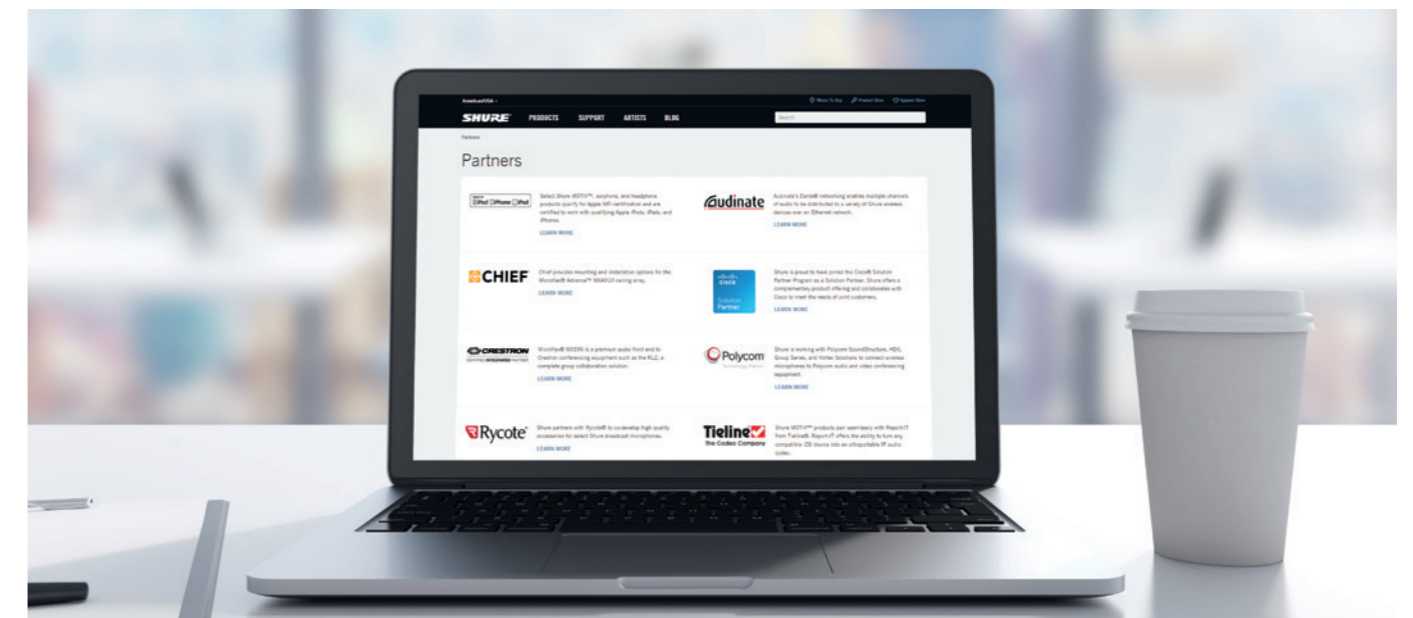


As part of Shure's strategic focus on providing innovative solutions in the A/V Conferencing and Integration market, the Company partners with Polycom, a leader in the unified communications and collaboration (UC&C) space. Shure is working with Polycom SoundStructure, HDX, Group Series, and Vortex Solutions to connect wireless microphones to Polycom audio and video conferencing equipment.



With over 35 years of proven product and service excellence, hundreds of product awards and patented designs, Chief is globally recognized as an AV industry leader. With an array of AV installation options available, Chief provides mounting hardware for the MXA910 when a nontraditional ceiling solution is called for.

Read more about Shure Technology Partners at: <http://www.shure.com/americas/partners>





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Russia, Moscow  
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