

470MHz 480MHz 500MHz 510MHz 520MHz 530MHz 540MHz 550MHz 560MHz 570MHz 580MHz 590MHz 600MHz 610MHz



AXIENT DIGITAL

# INTEGRITY YOU CAN HEAR.



Learn more at [shure.co.uk/axientdigital](http://shure.co.uk/axientdigital)

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## IT'S A COMPLEX WORLD FOR WIRELESS MICROPHONES.

The RF environment is ever-changing – jammed with TV transmissions, mobile devices, and other wireless equipment. And it's becoming more congested and unpredictable every day.

## AXIENT® DIGITAL MAKES IT PERFECTLY CLEAR.

Incorporating the most innovative wireless audio technology in the world, Axient Digital was engineered from the ground up for professional productions that demand flawless execution. With an unprecedented level of signal stability and audio clarity, plus flexible hardware options, advanced connectivity, and comprehensive control, it's a wireless system built to take on the challenges of today – and tomorrow.

# AXIENT® DIGITAL ONE SYSTEM. POWERFUL POSSIBILITIES.

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.

## AD Series Transmitters

### ACCESSIBLE PERFORMANCE.

Offering a variety of core benefits including high-performance RF, digital audio, and networking, the AD series represents the new standard in professional wireless. Powered by either AA or SB900A rechargeable batteries, these transmitters fit easily into existing workflows.



## ADX Series Transmitters

### TRANSFORMATIONAL TECHNOLOGY.

Critical applications call for the enhanced features of the ADX series. With form factors that include a frequency diversity handheld and the first micro-bodypack with an internal self-tuning antenna, these ShowLink®-enabled transmitters offer real-time remote control plus automatic interference detection and avoidance.

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## RF Protection

With outstanding signal quality in even the most complex, congested environments, Axient® Digital ensures maximum stability, range, and clarity for uncompromising audio – anywhere, every time.

### Next-Gen Digital Radio + Channel Quality Metering

A high-performance modulation scheme provides maximum signal stability. The 5-segment Channel Quality meter allows for real-time analysis of RF signal-to-noise, enabling operating range assessments and visibility into potential interference.

### True Digital Diversity

Mounting a better defence against multipath, fading events, and other RF anomalies, Axient Digital combines two discrete RF signals per receiver channel using a quality-based maximal-ratio-combining algorithm.

### Quadversity™

By assigning four antenna inputs to a single channel, Quadversity can provide extended coverage and the option for separate zones, plus added resistance against multipath interference and RF noise.

### Wide Tuning Receivers and Transmitters

An expansive tuning bandwidth of up to 184MHz across all receivers and transmitters supplies broad strategic spectrum coverage, while simplifying inventories for both sellers and operators.

### Spectral Efficiency

A robust High Density transmission mode increases system channel count dramatically – with up to 47 active channels per 6MHz TV band (63 channels/8MHz) – all the while maintaining exceptional audio quality.

### Operating Range

Selectable transmission modes and power levels enable optimum range and audio quality, with analogue-type resilience, artifact-free muting, and fast signal recovery at end of range.

### Frequency Diversity

Signal quality is maximised by transmitting two identical signals on independent frequencies. If the active signal degrades, the other takes over automatically. With the ADX2FD handheld transmitter, Axient Digital monitors and combines the transmissions for a flawless audio signal.

### Interference Detection and Avoidance

With real-time monitoring via the AXT600 Spectrum Manager, sound engineers can neutralise RF interference by manually switching the signal to a clear backup frequency, or by programming the system to do it automatically.

# RELIABILITY IS IN THE AIR.

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## Audio Quality

Axient® Digital defies limitations for both RF and audio quality. With industry-leading low latency, transparent frequency response, and wide dynamic range, nothing gets in the way of true, pure sound. No matter the setting, it's Shure audio quality you can count on.

### Ultra-low Latency

A best-in-class 2 milliseconds from microphone transducer to analogue output guarantees seamless, cohesive sound.\*

*\*Latency is mode dependent. High Density mode latency is 2.9 ms.*

### Transparent Sound

A flat frequency response over a wide range from 20Hz to 20KHz provides accurate audio reproduction.

### Digital Outputs

Dante™ digital audio transmits via a configurable 4-port switch for combined control/audio or separate streams with redundancy. AES3 output provides an additional option for pristine digital audio.

### Encryption

An Advanced Encryption Standard (AES) 256-bit encrypted signal ensures that every transmission is secure and unbreachable.

### Dynamic Range

Wide dynamic range of >120dB yields impressive signal-to-noise performance and accurate transient response.

# HEAR NOTHING BUT QUALITY.

## Command and Control

ShowLink® remote control, Wireless Workbench®, the ShurePlus™ Channels app, and networked battery monitoring provide unmatched control and insight, for seamless performance.

### Wireless Workbench® and the ShurePlus™ Channels App

Wireless Workbench offers total control – with an enhanced interface, access to advanced RF spectrum and Timeline plotting, frequency coordination, and live performance monitoring. Control and monitor capabilities can also be extended to a mobile device with the ShurePlus Channels iOS app.

### ShowLink® Remote Control

ADX transmitters with ShowLink give engineers comprehensive real-time remote control of all transmitter parameters using a robust 2.4GHz diversity wireless connection, so settings can be changed right from the control booth.

### Dante™ Cue and Dante™ Browse

Dante Cue enables monitoring of every Axient Digital channel on the network through a single headphone output, with the single push of a button. Plus, Dante Browse offers high-fidelity monitoring of any Dante-enabled device on the network.

### Networked Charging

Smart, high-performance batteries and chargers provide detailed visibility and remote monitoring of critical parameters such as remaining runtime in hours and minutes and charging status.

# SEE THROUGH THE NOISE.

## Receivers

# SCALABLE.

One receiver platform is the gateway to the full range of features, from high-performance RF and transparent digital audio, to software control. With Quadversity™, the AD4Q can assign four antennas to a single channel for greater coverage and signal quality.

## AD4D

### Two-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
- Networked control with Wireless Workbench® and ShurePlus™ Channels app
- Quadversity™ mode for extended antenna coverage and improved RF signal-to-noise (AD4Q only)
- Optional DC module available to support redundant power

## AD4Q

### Four-Channel Receiver



Front panel headphone jack enables Dante Cue and Dante Browse monitoring

Channel Quality meter displays RF signal-to-noise

Configurable Ethernet switch for redundant Dante digital output

Locking AC connectors

AES3 output

Front panel headphone jack enables Dante Cue and Dante Browse monitoring

Channel Quality meter displays RF signal-to-noise

Configurable Ethernet switch for redundant Dante digital output

Locking AC connectors

Switchable XLR/AES3 outputs

Cascade antenna ports can be switched to Quadversity inputs

## AD Series Transmitters

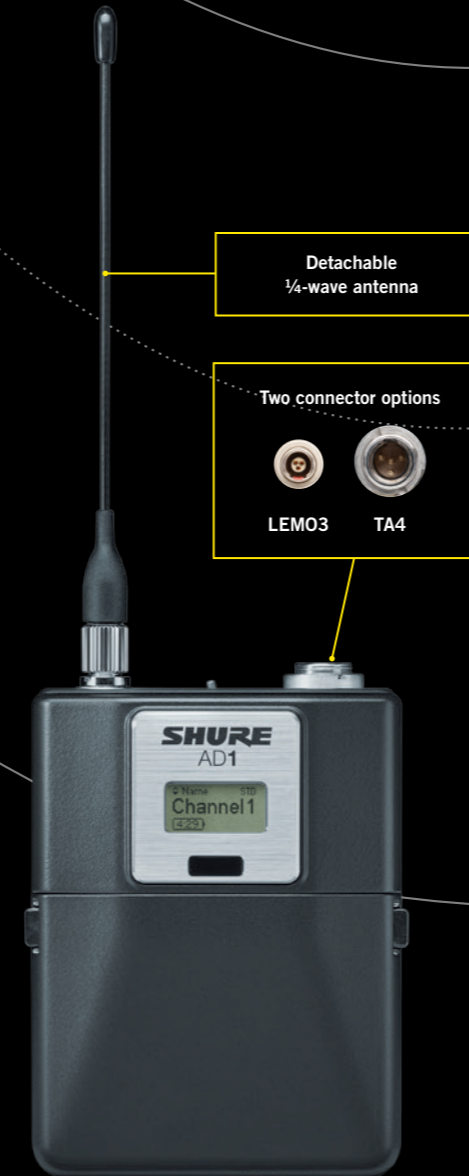
# ACCESSIBLE.

AD series handheld and bodypack transmitters put professional-quality wireless digital audio within reach, with breakthrough RF performance and wide tuning up to 184MHz.

### AD1

#### Bodypack Transmitter

- Two transmission modes:  
Standard for optimal coverage  
New High Density mode for maximum system channel count and robust coverage
- Encryption-enabled, secure transmission
- Magnesium alloy design for lighter presence
- External contacts for docked charging
- AA or SB900A Li-ion rechargeable batteries



Detachable  
¼-wave antenna

Two connector options



LEMO3 TA4

### AD2

#### Handheld Transmitter

- Two transmission modes:  
Standard for optimal coverage  
New High Density mode for maximum system channel count and robust coverage
- Encryption-enabled, secure transmission
- Frequency and power lockout
- Rugged metal construction in Black or Nickel finish
- External contacts for docked charging
- AA or SB900A Li-ion rechargeable batteries



Backlit LCD with easy-to-navigate  
menu and controls

KSM8  
Black

KSM8  
Nickel

Low-profile,  
lockable power switch

Also available  
with these Shure  
microphone cartridges



KSM9, KSM9HS  
(In black or nickel)



BETA 87A, BETA 87C



BETA 58



SM58



VP68



## ADX Series Transmitters

# TRANSFORMATIONAL.

All ADX transmitters set the stage for exceptional performance, with wide tuning up to 184MHz, interference protection, advanced rechargeability, streamlined design, and ShowLink® remote control for real-time parameter adjustments right from the booth.

### BREAKTHROUGH DESIGN

## ADX1M

### Micro-Bodypack Transmitter

- Small and streamlined design for better concealment and wear
- Internal adaptive antenna optimises signal when ADX1M is worn against the body
- Ultem® PEI construction for heat resistance and durability
- Detachable belt clip
- Membrane-style buttons and LEMO connection protect against sweat and moisture ingress
- SB910M rechargeable batteries provide up to 6.5 hours of runtime
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance



## ADX1

### Bodypack Transmitter

- Slim, light design with powerful features
- Advanced control menu, removable antenna, fully concealed buttons and switch
- Durable, moisture-resistant, lightweight magnesium metal case
- SB910 rechargeable batteries for up to 9 hours of runtime
- AAA-compatible sled available
- External contacts for docked charging
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance



## ADX2

### Handheld Transmitter

- Sleek design with powerful features
- Durable, moisture-resistant, lightweight metal case, available in Black and Nickel finish
- SB920 rechargeable batteries for up to 9 hours of runtime
- AA-compatible sled available
- External contacts for docked charging, with optional fully-covered radome
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance



KSM8  
Black or Nickel

## 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
- Durable, moisture-resistant, lightweight metal case, available in Black and Nickel finish
- SB920 rechargeable batteries for up to 6.5 hours of runtime
- AA-compatible sled available
- External contacts for docked charging, with optional fully-covered radome
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance



KSM8  
Black or Nickel

Also available with these Shure microphone cartridges



KSM9, KSM9HS  
(In Black or Nickel)



BETA 87A, BETA 87C



BETA 58



SM58



VP68

## System Management

# POWERFUL.

Axient® Digital offers unprecedented remote control and monitoring for easy coordination of clean, useable frequencies no matter what kind of RF environment you face.



## AXT600

### Spectrum Manager

- Single rack unit delivers wide-band UHF spectrum scanning and analysis, plus compatible frequency coordination
- Scans and analyses the global UHF spectrum (470-952MHz) in approximately one minute
- Continuously monitors, evaluates, and displays backup frequencies in real time
- Is compatible with Axient Digital and other Shure networked wireless systems

## AD610

### Diversity ShowLink® Access Point

- Wireless network connectivity between all linked transmitters and receivers
- Enables real-time wireless remote control of up to 16 transmitters per access point
- ShowLink offers ability to adjust gain, change frequencies, mute signals, and more
- True diversity antenna scheme maintains a robust link in the 2.4GHz frequency range
- Automatic channel selection scans the 2.4GHz range for the best channel
- Automatic frequency agility moves the network to the best available channel if signal degrades
- Is compatible with Axient Digital ADX series and Axient analogue systems



### Additional Accessories

- Battery sleds
- Radome covers
- Locking power cords
- ShowLink talk switches for handhelds and bodypacks

## Batteries

# RECHARGEABLE.

A range of networked battery solutions for AD and ADX transmitters includes the rack-mounted SBRC and a series of units that support individual and docked charging.



## SBRC

### Rackmount Charging Station

- Accommodates eight Li-ion batteries in a single rack space
- Front-panel display for battery parameters including time-to-full in hours and minutes and percent-of-capacity
- Remote monitoring via Shure Wireless Workbench

- SBC-AX Charging module for SB900A
- SBM910 Charging module for SB910
- SBM920 Charging module for SB920
- SBM910M Charging module for SB910M

## 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

## 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