

# QLX-D<sup>®</sup> Digital Wireless



QLX-D<sup>®</sup> Digital Wireless delivers defined, streamlined performance with transparent 24-bit digital audio. Combining professional features with simplified setup and operation, QLX-D offers outstanding wireless functionality for demanding live sound events and installations.

## Transparent 24-bit digital audio captures every performance detail

- Extended 20 Hz to 20 kHz frequency range\*
- Over 120 dB of dynamic range eliminates transmitter gain adjustment

## Incredibly Efficient Wireless

- Wide 64 MHz tuning bandwidth\*\*
- Up to 17 compatible systems per 6 MHz TV channel

## Powerful Networking Features

- Compatible with Shure Wireless Workbench<sup>®</sup> 6 control software
- Remote control from an iOS device via ShurePlus<sup>™</sup> Channels mobile app

## Rugged, secure systems built to match demanding environments

- AES-256 encryption for secure wireless transmission
- Professional-grade all metal construction

### APPLICATIONS

Musicians

Presenters

Houses of Worship

Education

Hotels and Conference  
Centers

### PRODUCT HIGHLIGHTS

24-bit Digital Audio

100 meter (330 ft.) Range

Ethernet Networking

Rechargeable  
Power Options

\*Microphone dependent

\*\*Region dependent

# Component Specifications

## QLXD4 Digital Wireless Receiver

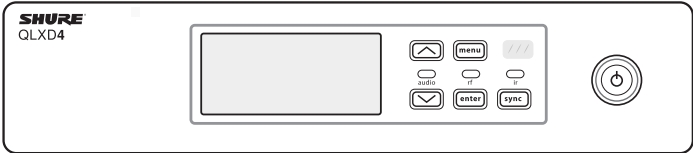
### Overview

Featuring transparent 24 bit digital audio quality and incredibly efficient RF spectrum usage, the QLXD4 is a half-rack digital wireless receiver for use with QLX-D® Digital Wireless Systems. Ideal for presentation spaces, music venues, and houses of worship, the QLXD4 combines professional features with streamlined setup and operation. Automatic scanning quickly finds open frequencies and one-touch sync quickly deploys them to transmitters. Ethernet networking enables networked channel scanning across multiple receivers and Wireless Workbench software integration for remote control of receiver settings from a PC or Mac.

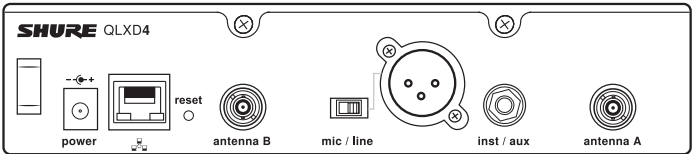
- 64 MHz tuning bandwidth (region dependent)
- More than 60 preset compatible channels per frequency band (region dependent)
- Up to 17 compatible systems per 6 MHz TV channel; 22 systems per 8 MHz channel
- Digital predictive switching diversity ensures solid RF connection
- Automatic channel scan quickly finds the cleanest frequency
- IR sync deploys selected frequency to transmitter
- Ethernet networking provides streamlined setup across multiple receivers
- Networked channel scan configures open frequencies for all connected receivers
- AES 256-bit encryption for secure wireless transmission
- Up to 60 dB of adjustable audio gain
- High-contrast LCD menu and controls with lockout feature
- Audio and RF LED meters with peak indicator
- Detachable ½ wave antennas
- Mic / line switchable XLR output
- ¼" instrument output
- Durable aluminum construction with brushed finish
- Professional-grade rack hardware included
- Compatible with Shure Wireless Workbench® 6 control software
- Remote monitoring and control from iOS devices via ShurePlus™ Channels app

### Product Specifications

Dimensions	41 mm × 197 mm × 151 mm (1.63 in. × 7.75 in. × 5.94 in.), H × W × D
Weight	777 g (1.71 lbs), without antennas
Housing	Steel
Power requirements	12 V DC @ 0.4 A, supplied by external power supply (tip positive)
<b>RF Input</b>	
Spurious Rejection	>80 dB, typical
Connector Type	BNC
Impedance	50 Ω
<b>Audio Output</b>	
Gain Adjustment Range	-18 to +42 dB in 1 dB steps
Configuration	1/4" (6.35 mm): Impedance balanced (Tip=audio, Ring=no audio, Sleeve=ground) XLR: Balanced (1=ground, 2=audio +, 3=audio -)
Impedance	1/4" (6.35 mm): 100 Ω (50 Ω Unbalanced) XLR: 100 Ω
Full Scale Output	1/4" (6.35 mm): +12 dBV XLR: LINE setting= +18 dBV, MIC setting= -12 dBV
Mic/Line Switch	30 dB pad
Phantom Power Protection	1/4" (6.35 mm): Yes XLR: Yes
<b>Networking</b>	
Network Interface	Single Port Ethernet 10/100 Mbps
Network Addressing Capability	DHCP or Manual IP address
Maximum Ethernet Cable Length	100 m (328 ft)



QLXD4 Front Panel



QLXD4 Back Panel



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PERFORMANCE™

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# Component Specifications

## QLXD2 Wireless Handheld Transmitter

### Overview

Featuring transparent 24-bit digital audio quality and incredibly efficient RF spectrum usage, the QLXD2 handheld transmitter is ideal for wireless vocals in presentation spaces, music venues, and houses of worship. Easy to use, the QLXD2 quickly syncs with a wireless receiver over IR at the push of a button and maintains clear, uninterrupted signal over its entire 100 m (330 ft.) range. All metal construction ensures durability, and a wide selection of compatible microphone choices offer legendary Shure sound signatures.

- 20 Hz to 20 kHz frequency range with flat response (actual response is microphone dependent)
- Interchangeable Shure microphone capsules, including the legendary SM58®
- AES 256-bit encryption for secure transmission
- Over 120 dB of dynamic range – no transmitter gain adjustment needed
- 1, 10 mW selectable RF output power
- Up to 9 hours continuous use with 2 x AA alkaline batteries
- Optional Shure SB900A lithium ion rechargeable battery provides up to 10 hours of continuous use and reports remaining runtime in hours and minutes
- External charging contacts for docked charging
- Backlit LCD with easy to navigate menu and controls
- Selectable display mode showing group/channel, frequency, or battery runtime
- 100 meter (330 ft.) line-of-sight operating range
- Rugged metal construction
- Frequency and power lockout

### Product Specifications

Mic Offset Range	0 to 21 dB (in 3 dB steps)
Battery Type	Shure SB900A Rechargeable Li-Ion or AA batteries 1.5 V
Battery Runtime @ 10 mW	Shure SB900A: up to 10 hours Alkaline: up to 9 hours See Battery Runtime Chart
Dimensions	256 mm x 51 mm (10.1 in. x 2.0 in.) L x Dia.
Weight	347 g (12.2 oz.), without batteries
Housing	Machined aluminum

#### Audio Input

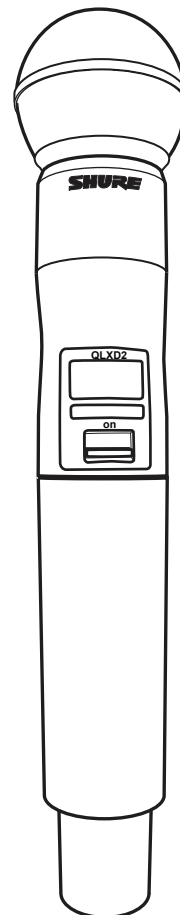
Configuration	Unbalanced
Maximum Input Level 1 kHz at 1% THD	145 dB SPL (SM58®), typical Note: Dependent on microphone type

#### RF Output

Antenna Type	Integrated Single Band Helical
Occupied Bandwidth	<200 kHz
Modulation Type	Shure proprietary digital
Power	1 mW or 10 mW See Frequency Range and Output Power table, varies by region

### Microphone Options

QLXD2/SM58®	Handheld Transmitter with SM58® Cartridge
QLXD2/SM86	Handheld Transmitter with SM86 Cartridge
QLXD2/SM87A	Handheld Transmitter with SM87A Cartridge
QLXD2/BETA® 58A	Handheld Transmitter with Beta® 58A Cartridge
QLXD2/BETA® 87A	Handheld Transmitter with Beta® 87A Cartridge
QLXD2/BETA® 87C	Handheld Transmitter with Beta® 87C Cartridge
QLXD2/KSM9	Handheld Transmitter with KSM9 Cartridge
QLXD2/KSM9HS	Handheld Transmitter with KSM9HS Cartridge
QLXD2/K8B	Handheld Transmitter with KSM8 Cartridge



QLXD2  
Wireless Handheld Transmitter

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