

# QLX-D<sup>®</sup> DIGITAL WIRELESS





QLX-D™ Digital Wireless Systems

# SHURE PROFESSIONAL TECHNOLOGY IN AN EASY-TO-USE SOLUTION

**Transparent 24-bit digital audio.**  
**Incredibly efficient wireless.**  
**Powerful networking.**  
**Rugged, secure 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 setup and operation, QLX-D boasts impressive RF efficiency to get more channels on air using less spectrum, while the rugged all-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 what the venue.

# System Components



## QLXD1 Bodypack Transmitter QLXD4 Receiver QLXD2 Handheld Transmitter

- Rugged metal construction
- Backlit LCD with easy to navigate menu and controls
- 2 x AA batteries provide up to 9 hours of runtime
- Optional Shure SB900A lithium-ion rechargeable battery provides up to 10 hours of runtime
- Displays remaining battery life in hours and minutes when Shure SB900A is used
- Switchable RF power (1,10mW)
- External charging contacts for docked charging
- Multiple microphone cartridges available, including the legendary SM58® (QLXD2)
- 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
- Up to 168 compatible channels per frequency band\*\*
- AES 256-bit encryption
- Ethernet networkable receivers
- Automatic channel scan quickly and easily finds a new frequency
- Network Scan finds clean frequencies for networked receivers
- IR Sync
- AMX/Crestron® control system ready
- ShurePlus™ Channels mobile app compatible
- Wireless Workbench® control software compatible
- Displays remaining battery life in hours and minutes when Shure SB900A is used
- Compatible with ULXD6 Boundary Transmitter and ULXD8 Gooseneck Transmitter

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

## Systems available with:

### Handheld

Interchangeable SM, Beta, and KSM microphone cartridges



### Lavalier

Miniature and subminiature lavalier condenser microphones



WL93 Miniature Lavalier



MX150 MicroFlex® Subminiature Lavalier



WL183/WL184/WL185  
MicroFlex® Lavalier

### Headset

Comfortable over-the-ear design



MX153B MicroFlex® Headset Microphone  
MX153T MicroFlex® Headset Microphone



SM35 Headset Microphone

### Instrument

Microphone and cable options for instrument and line input



WA305 Premium Instrument Cable

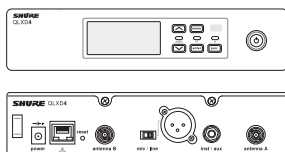


WB98H/C Clip-On Instrument Microphone

System

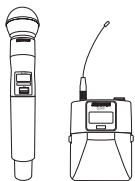
<b>RF Carrier Frequency Range</b>	174 - 216 MHz, 470 - 865 MHz, 1492 - 1525 MHz, 1785 - 1805 MHz, <i>varies by region</i>
<b>Image Rejection</b>	>70 dB, typical
<b>Latency</b>	<2.9 ms
<b>RF Sensitivity</b>	-97 dBm at 10 <sup>-5</sup> BER
<b>Working Range</b>	100 m line-of-sight <i>Note: Actual range depends on RF signal absorption, reflection and interference.</i>
<b>Audio Frequency Range</b>	20 Hz to 20 kHz <i>Note: Dependent on microphone type.</i>
<b>Audio Dynamic Range</b> (System Gain @ +10)	>120 dB, A-weighted, typical
<b>Total Harmonic Distortion</b>	<0.1% (-12 dBFS input, System Gain @ +10)
<b>Operating Temperature Range</b>	-18°C to 50°C <i>Note: Battery characteristics may limit this range.</i>

QLXD4 Receiver



<b>Dimensions</b>	41 mm x 197 mm x 151 mm
<b>Weight</b>	777 g, without antennas
<b>Housing</b>	Steel
<b>Power Requirements</b>	12 V DC @ 0.4 A, supplied by external power supply (tip positive)
<b>Spurious Rejection</b>	> 80 dB, typical
<b>Antenna Connector Type</b>	BNC
<b>Antenna Impedance</b>	50 Ω
<b>Gain Adjustment Range</b>	-18 to +42 dB (in 1 dB steps)
<b>Configuration</b>	¼" (6.35 mm): Impedance balanced (Tip = audio, Ring = no audio, Sleeve = ground) XLR: balanced (1= ground, 2 = audio +, 3 = audio -)
<b>Antenna Impedance</b>	¼" (6.35 mm): 100 Ω (50 Ω Unbalanced) XLR: 100 Ω
<b>Full Scale Output</b>	¼" (6.35 mm): +12 dBV XLR: LINE setting = +18 dBV, MIC setting = -12 dBV
<b>Mic/Line Switch</b>	30 dB pad
<b>Network Interface</b>	Single Port Ethernet 10/100 Mbps
<b>Network Addressing Capability</b>	DHCP or Manual IP address

QLXD1 Bodypack Transmitter  
QLXD2 Handheld Transmitter



<b>Dimensions</b>	QLXD1: 86 mm x 65 mm x 23 mm without antenna QLXD2: 256 mm x 51 mm L x Dia. <i>Note: Final dimensions depend on cartridge.</i>
<b>Weight</b>	QLXD1: 138 g, without batteries QLXD2: 347 g, without batteries <i>Note: Final weight depends on cartridge.</i>
<b>Housing</b>	QLXD1: Cast aluminum QLXD2: Machined aluminum
<b>Battery Type</b>	Shure SB900A Rechargeable Li-Ion or AA batteries 1.5 V
<b>Battery Runtime</b>	(@ 10 mW) Shure SB900A rechargeable: up to 10 hours alkaline: up to 9 hours
<b>RF Output Power</b>	1 mW or 10 mW
<b>Occupied Bandwidth</b>	< 200 kHz
<b>Modulation Type</b>	Shure proprietary digital
<b>Mic Offset Range</b>	0 to 21 dB (in 3 dB steps)



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