SHURE®
LEGENDARY
PERFORMANCE™

QLX-D®
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



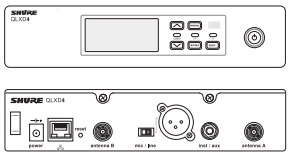
WB98H/C Clip-On Instrument Microphone

QLX-D Digital Wireless Specifications (Note: All specifications are subject to change.)

System

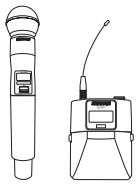
RF Carrier Frequency Range	174 - 216 MHz, 470 - 865 MHz, 1492 - 1525 MHz, 1785 - 1805 MHz, *varies by region*
Image Rejection	>70 dB, typical
Latency	<2.9 ms
RF Sensitivity	-97 dBm at 10^{-5} BER
Working Range	100 m line-of-sight *Note: Actual range depends on RF signal absorption, reflection and interference.*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

QLXD4 Receiver



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

QLXD1 Bodypack Transmitter
QLXD2 Handheld Transmitter



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

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