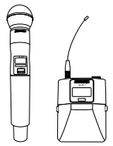
QLX-D™ Digital Wireless Specifications (Note: All specifications are subject to change.)

System	**RF Carrier Frequency Range**	470–937.5 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 (328 ft.) 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 (0°F) to 50°C (122°F) *Note: Battery characteristics may limit this range.*
QLXD4 Receiver	**Dimensions**	41 mm x 197 mm x 151 mm (1.63 in. x 7.75 in. x 5.94 in.)
	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)
	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 (3.38 in. x 2.57 in. x 0.92 in.) without antenna QLXD2: 256 mm x 51 mm (10.1 in. x 2.0 in.) L x Dia.
	Weight	QLXD1: 138 g (4.9 oz.), without batteries QLXD2: 347 g (12.2 oz.), without batteries
	Housing	QLXD1: Cast aluminum QLXD2: Machined aluminum
	Battery Type	Shure SB900 Rechargeable Li-Ion or AA batteries 1.5 V
	Battery Runtime	(@ 10 mW) Shure SB900 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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QLX-D™ Digital Wireless Systems

POWERFULLY REFINED WIRELESS

QLX-D™ Digital Wireless Systems

An Elevated Standard.

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
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 SB900 lithium-ion rechargeable battery provides up to 10 hours of runtime
- External charging contacts for docked charging
- Multiple microphone cartridges available, including the legendary SM58® (QLXD2)

QLXD4 Receiver

- Transparent, 24-bit digital audio
- 20 Hz – 20 kHz frequency range*
- 120 dB dynamic range
- 64/72 MHz overall tuning bandwidth**
- 17 compatible channels per 6 MHz TV channel
- More than 60 pre-set compatible channels per frequency band**
- AES 256-bit encryption
- Ethernet networkable receivers
- Network Scan finds clean frequencies for networked receivers
- AMX/Crestron control system ready
- ShurePlus™ Channels mobile app compatible
- Wireless Workbench® control software compatible

*Microphone dependent **Region dependent

Systems available with:

Handheld

Interchangeable SM, Beta, and KSM microphone cartridges

SM58® Beta® 58A Beta® 87A Beta® 87C

SM86 SM87A KSM9 KSM9HS

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

SM35 Headset Microphone

Instrument

Microphone and cable options for instrument and line input

WA305 Premium Instrument Cable

WB98H/C Clip-On Instrument Microphone