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.

**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.**

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**System Components**

**QLXD1 Bodypack 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)

**QLXD2 Handheld Transmitter**

- 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

**QLXD4 Receiver**

- 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
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- 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

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**Systems available with:**

**Handheld**

Interchangeable SM, Beta, and KSM microphone cartridges

- Beta® 87A
- Beta® 87C
- SM58®
- SM86
- SM87A
- Beta® 58A

**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
- WB98HC Clip-On Instrument Microphone
## QLX-D Digital Wireless Specifications

(Note: All specifications are subject to change.)

### System

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Carrier Frequency Range</td>
<td>174 - 216 MHz, 470 - 865 MHz, 1492 - 1525 MHz, 1785 - 1805 MHz, varies by region</td>
</tr>
<tr>
<td>Image Rejection</td>
<td>&gt;70 dB, typical</td>
</tr>
<tr>
<td>Latency</td>
<td>&lt;2.9 ms</td>
</tr>
<tr>
<td>RF Sensitivity</td>
<td>-97 dBm at 10^−5 BER</td>
</tr>
</tbody>
</table>
| 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. |

### QLX44 Receiver

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>41 mm x 197 mm x 151 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>777 g, without antennas</td>
</tr>
<tr>
<td>Housing</td>
<td>Steel</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>12 V DC @ 0.4 A, supplied by external power supply (tip positive)</td>
</tr>
<tr>
<td>Spurious Rejection</td>
<td>&gt; 80 dB, typical</td>
</tr>
<tr>
<td>Antenna Connector Type</td>
<td>BNC</td>
</tr>
<tr>
<td>Antenna Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Gain Adjustment Range</td>
<td>-18 to +42 dB (in 1 dB steps)</td>
</tr>
</tbody>
</table>
| 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
</table>
| 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) |