

# Component Specifications

## ULXD2 Wireless Handheld Transmitter

### Overview

The Shure ULXD2 is a handheld wireless transmitter compatible with ULX-D® Digital Wireless Systems. Offering premium 20 Hz – 20 kHz audio quality, advanced rechargeability options, and a wide selection of interchangeable Shure microphone heads, the ULXD2 delivers uncompromising wireless performance for professional sound reinforcement applications. The ULXD2 is offered with SM58®, SM86, SM87A, Beta 58A®, Beta 87A, and Beta 87C.

- 30 Hz to 20 kHz range with flat frequency response (actual response is microphone dependent)
- Interchangeable Shure microphone cartridges, including the legendary SM58®
- >120 dB dynamic range
- 1, 10, and 20 mW selectable RF output power
- 5 segment battery fuel gauge
- Shure lithium-ion rechargeable battery pack provides up to 12 hours of battery life, precision metering, and zero memory effect
- Up to 11 hours continuous use with 2 × AA batteries
- Backlit LCD with easy to navigate menu and controls
- 100 meter (300 ft) operating range
- Rugged metal construction
- Frequency and power lockout

### Product Specifications

|                            |  |
|----------------------------|--|
| Gain Offset Range          | 0 to 21 dB (in 3 dB steps)   |
| Battery Type               | Shure SB900A Rechargeable Li-Ion or LR6 AA batteries 1.5 V   |
| Battery Runtime<br>@ 10 mW | Shure SB900A: >11 hours<br>Alkaline: 11 hours<br><i>See Battery Runtime Chart</i>                            |
| Dimensions                 | 256 mm x 51 mm (10.1 in. x 2.0 in.) L x Dia.<br>V50, V51 Bands: 278 mm x 51 mm (10.9 in. x 2.0 in.) L x Dia. |
| Weight                     | 340 g (12.0 oz.), without batteries<br>V50, V51 Bands: 348 g (12.3 oz.), without batteries                   |
| Housing                    | Machined aluminum  |

#### Audio Input

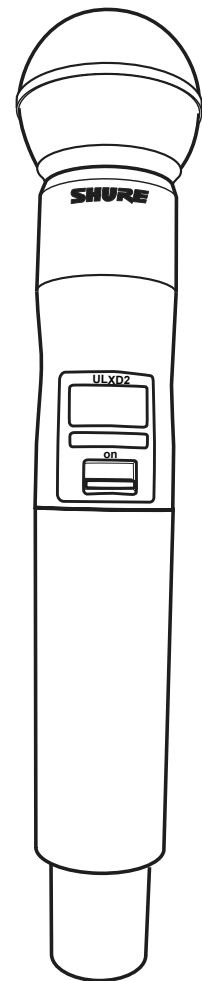
|   |   |
|---|---|
| Configuration   | Unbalanced  |
| Maximum Input Level<br>1 kHz at 1% THD  | 145 dB SPL (SM58), typical<br><i>Note: Dependent on microphone type</i> |
| Preamplifier Equivalent Input Noise (EIN)<br><i>System Gain Setting ≥ +20</i> | 120 dBV, A-weighted, typical  |

#### RF Output

|                    |   |
|--------------------|---|
| Antenna Type       | Integrated Single Band Helical  |
| Occupied Bandwidth | <200 kHz  |
| Modulation Type    | Shure Proprietary Digital   |
| Power              | 1 mW, 10 mW, 20 mW<br><i>See Frequency Range and Output Power table, varies by region</i> |

### Microphone Options

|                |  |
|----------------|--|
| ULXD2/SM58     | ULXD2 Handheld Transmitter with SM58® Cardioid Microphone  |
| ULXD2/SM86     | ULXD2 Handheld Transmitter with SM86 Cardioid Microphone   |
| ULXD2/SM87A    | ULXD2 Handheld Transmitter with SM87A Supercardioid Microphone                                     |
| ULXD2/BETA 58  | ULXD2 Handheld Transmitter with Beta®58A Supercardioid Microphone                                  |
| ULXD2/BETA 87A | ULXD2 Handheld Transmitter with Beta®87A Supercardioid Microphone                                  |
| ULXD2/BETA 87C | ULXD2 Handheld Transmitter with Beta®87C Cardioid Microphone                                       |
| ULXD2/KSM9     | ULXD2 Handheld Transmitter with KSM9 Dual-Pattern Condenser Vocal Microphone                       |
| ULXD/KSM9HS    | ULXD2 Handheld Transmitter with KSM9HS Dual-Pattern Condenser Vocal Microphone                     |
| ULXD2/K8B      | ULXD2 Handheld Transmitter with KSM8 Dualdyne™ Dual-Diaphragm Cardioid Dynamic Microphone (Black)  |
| ULXD2/K8N      | ULXD2 Handheld Transmitter with KSM8 Dualdyne™ Dual-Diaphragm Cardioid Dynamic Microphone (Nickel) |



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