

Features

- ULXP4 : single receiver
- ULXP4D : two receivers
- Automatic Frequency Selection with group scan function
- Over 1400 selectable frequencies
- Predictive Diversity
- 5-segment transmitted audio signal strength meter
- 5-segment RF meter
- 3-segment transmitter battery fuel gauge
- Advanced multi-function LCD displays group and channel
- Mic/Line switch
- Removable 1/2-wave antenna
- Frequency and volume lockout
- XLR and 1/4-inch output
- Rugged metal chassis
- 1/2 rack design

Specifications

RF Carrier Frequency Range*

470.000 – 865.000 MHz

*Note: Frequencies above 698.000 MHz are for use outside of the U.S. Contact your local dealer, distributor or Shure for more information.

Effective Range

100 m (300 ft.) under optimal conditions

NOTE: Actual working range depends on RF signal absorption, reflection, and interference

Audio Frequency Response

25 to 15,000 Hz, ± 2 dB

NOTE: Overall system frequency response depends on the microphone element.

**Output Level: Microphone Level = Line Level – 20 dB*

Transmitter Audio Polarity

Positive pressure on microphone diaphragm (or positive voltage applied to tip of WA302 phone plug) produces positive voltage on pin 2 (with respect to pin 3 of low impedance output) and the tip of the high impedance 1/4-inch output

Transmitter Gain Adjustment Range

ULX1: 25 dB

ULX2: 25 dB

Receiver Audio Output Level (± 38 kHz deviation, 1 kHz tone)

XLR connector (into 600 ohm load): +3.9 dBV (line), -17 dBV (mic)

1/4 inch connector (into 3000 ohm load): -2 dBV

Impedance

ULX1 (input): 1 Megohm

ULXS4, ULXP4 (output): 50 ohms at line level; 2000 ohms at mic level

Modulation

± 38 kHz deviation compressor-expander system with pre- and de-emphasis.

RF Power Output

ULX1, ULX2: 30 mW maximum

Dynamic Range

>100 dB, A-weighted

RF Sensitivity

1.26 μ V for 12 dB SINAD (typical)

Image Rejection
80 dB typical

Spurious Rejection
75 dB typical

Ultimate Quieting (reference \pm 38 kHz deviation)
>105 dB, A-weighted

System Distortion (reference \pm 38 kHz deviation, 1 kHz modulation)
0.3% total harmonic distortion, typical

Power Requirements

ULX1, ULX2: 9V alkaline battery (Duracell MN1604 recommended); 8.4V Nicad optional
ULXS4, ULXP4: 14 - 18 Vdc (negative ground), 550 mA

Battery Life

8 to 9 hours (with 9V Duracell MN1604 alkaline battery)

Operating Temperature Range

-20° to 49° C (-4° to 120° F)

NOTE: Battery characteristics may limit this range.

Overall Dimensions

ULX1: 96.5 mm H x 67 mm W x 26.7 mm D (3.86 x 2.68 x 1.10 in.)

ULX2/58, ULX2/BETA 58: 241 mm L x 51 mm Dia. (9.5 x 2 in.)

ULX2/87, ULX2/BETA 87: 216 mm L x 51 mm Dia. (8.5 x 2 in.)

ULX4S: 43 mm H x 214 mm W x 163 mm D (1.72 in. x 8.56 in. x 6.52 in.)

ULX4P: 43 mm H x 214 mm W x 172 mm D (1.72 in. x 8.56 in. x 6.88 in.)

Net Weight

ULX1: 79 g (2.8 oz.) without battery

ULX2/58, ULX2/BETA 58: 295 g (10.4 oz.) without battery

ULX2/87, ULX2/BETA 87: 193 g (6.8 oz.) without battery

ULXS4: 1049 g (2 lbs, 5 oz.)

ULXP4: 1105 g (2 lbs, 7 oz.)