ULX™ WIRELESS MICROPHONE SYSTEMS

Ultra-Wide Band Frequency Agile UHF Systems
Auto Frequency Selection
Reliable, Professional Sound Quality
Multi-Channel Operation
ULX Standard Systems

Ideal for regional and touring performers who:
- perform regularly on stage and need rugged-reliable gear
- perform in different cities or crowded RF environments
- want quick set-up before gigs
- want the security of using original Shure microphone designs

ULX Professional Systems

Ideal for professional or in-house users who:
- need affordable UHF options for smaller installations
- require programmable and lockable front panel settings
- rely on advanced LCDs that convey volume, frequency, and battery status
- desire durable, metal chassis, rack-mounted systems
- want the familiarity and audio quality of legendary Shure wired microphones
Handheld Microphone Transmitters

**SM58®** Cardioid dynamic microphone
The legendary choice of vocal performers around the globe.

**SM87** Supercardioid condenser microphone
Smooth sound tailored for warm, rich vocal reproduction.

**Beta 58A®** Supercardioid dynamic microphone
Preferred by touring vocalists and sound professionals.

**Beta 87A™** Supercardioid condenser microphone
Brings studio-quality sound to live vocals.

**Beta 87C™** Cardioid condenser microphone
Adds warmth to the frequency response, preferred by in-ear monitor users.

Bodypack Transmitters
Transmitters for use with headworn, lavalier and instrument microphones and cables. Attaches to belt, waistband or guitar strap with clip for hands-free mobility.

Instrument Microphones and Guitar Cables

**Beta 98H/C™** Cardioid condenser clip-on microphone
A miniature microphone with flexible gooseneck for versatile, secure positioning on horns.

**WA302** 1/4" Mini 4-pin connector instrument cable
Links a Bodypack Transmitter to a guitar or bass guitar.

Headworn and Lavalier Microphones

**WCM16** Hypercardioid condenser headworn microphone

**WH30** Cardioid condenser headworn microphone

**WL183** Omnidirectional lavalier microphone

**WL184** Supercardioid lavalier microphone

**WL185** Cardioid lavalier microphone

**WL50** Professional Subminiature Omnidirectional lavalier microphone

**WL51** Professional Subminiature Cardioid lavalier microphone

**WL93** Omnidirectional lavalier microphone

ULX Standard Receiver

data

**ULX Professional Receiver**

**Automatic Frequency Selective**

**Backlit LCD display**
Indicates group, channel setting and battery power level.

**Long battery life**
Provides extended battery life with a single 9V battery.

**Lockout settings**
Frequency and volume lockout protect from accidental setting changes.

**LED indicators**
Confirm RF reception and level, as well as transmitter audio level.

**Detachable 1/4-wave antennas**
Allows for front mount capability.

**Rugged construction**
1/2-rack durable plastic chassis.

**Multi-function LCD display**
Indicates group and channel setting, current UHF TV channel (US models only) and remaining transmitter battery power.

**Advanced controls**
Easy to use LCD interface and front panel controls.

**LED indicators**
Confirm RF reception and level, as well as transmitter audio level.

**Detachable 1/4-wave antennas**
Allows for front mount capability.

**Rugged construction**
1/2-rack durable plastic chassis.

**Automatic Frequency Selective**
Scans for open channels, and allows for fast setup.

**Multi-channel Flexibility**
Ultra-wide UHF band agility operates across multiple TV channels for clear operation anywhere.

**Consistent Reception**
Shure Microprocessor Controlled Predictive Diversity anticipates and avoids sound dropouts.

**Multi-system Operation**
Up to 20 simultaneously compatible systems, depending on location.

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Indicates group and channel setting, current UHF TV channel (US models only) and remaining transmitter battery power.

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**Handheld Microphone**

- **SM58®**
- **ULXP24/58**
- **SM87**
- **ULXP24/87**
- **Beta 58A®**
- **ULXP24/BETA58**
- **Beta 87A™**
- **ULXP24/BETA87A**
- **Beta 87C™**
- **ULXP24/BETA87C**

**Lavalier Microphone**

- **WL50**
- **ULXP14/50**
- **WL51**
- **ULXP14/51**
- **WL183**
- **ULXP14/83**
- **WL184**
- **ULXP14/84**
- **WL185**
- **ULXP14/85**
- **WL93**
- **ULXP14/93**

**Headworn Microphone**

- **WH30**
- **ULXP14/30**

**Instrument Microphone**

- **Beta 98H/C™**
- **ULXP14/98H**

**Guitar/Bass Cable**

- **WA302**
- **ULXP14**

**Optional Accessories**

- **UA220** - Passive Antenna Splitter
- **UA505** - Remote Antenna Bracket and BNC Adapter
- **UA506** - Rack Mount Kit for one ULX Receiver
- **UA507** - Rack Mount Kit for two ULX Receivers
- **UA600** - Front Mount Antenna Cable Kit
- **WA610** - Universal Hard Carrying Case
- **UA830WB** - UHF Wideband Active Remote Antenna Amplifier
- **UA844** - Antenna/Power Distribution System
- **UA870WB** - UHF Wideband Active Directional Antenna

**Systems with two (2) Transmitters and one (1) Receiver**

- **Handheld/Lavalier Combo**
  - SM58® /WL185
  - ULXP24/85

**Systems with two (2) Transmitters and two (2) Receivers**

- **Handheld Microphones**
  - (2) SM58®
  - (2) SM87
  - (2) Beta 58A®
  - (2) Beta 87A™
  - (2) Beta 87C™

- **Guitar/Bass Cable**
  - (2) WA302

**Systems with one (1) Handheld, one (1) Bodypack Transmitter and two (2) Receivers**

- **Handheld/Bodypack Combo**
  - SM58®
  - ULXP124/58
  - SM87
  - ULXP124/87
  - Beta 58A®
  - ULXP124/BETA58
  - Beta 87A™
  - ULXP124/BETA87A
  - Beta 87C™
  - ULXP124/BETA87C
ULX Wireless.
Remarkable new mic systems that move.

Affordable solutions that equip legendary Shure microphones for wireless performance. ULX Standard and Professional systems put frequency agile UHF in reach for both performers and sound professionals.

Straight shot to a clear channel.

Wireless traffic jamming your transmission? Frequency agile ULX Wireless Systems with Automatic Frequency Selection find the open frequencies and take you there. Instantly.

Hear me.

Clear channels and strong transmission free you to concentrate on what matters most – your sound. ULX systems offer a choice of over 30 Shure mic configurations for any wireless situation, including the legendary SM58® and Beta Series microphones.

Effortless Wireless.

ULX is wireless the way it should be. Simple. Agile. Bulletproof. It’s gear without fear. Loud and clear.
## ULX2 Handheld Transmitter

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Carrier Frequency Range</td>
<td>554-865 MHz (available frequencies depend on applicable county regulations)</td>
</tr>
<tr>
<td>Working Range</td>
<td>90 m (300 ft) under typical conditions. Operating range depends on many variables, including RF signal absorption, reflection and interference.</td>
</tr>
<tr>
<td>Safety Frequency Range</td>
<td>806.3-865 MHz (6 kHz channel spacing, channel spacing varies according to applicable country regulations)</td>
</tr>
<tr>
<td>Safety Output Level</td>
<td>0 dBm (50 Ohm), 250 mV RMS (10 kHz bandwidth)</td>
</tr>
<tr>
<td>Image Rejection</td>
<td>75 dB typically</td>
</tr>
<tr>
<td>Spurious Rejection</td>
<td>80 dB typically</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>&gt;105 dB, A-weighted</td>
</tr>
<tr>
<td>RF Sensitivity</td>
<td>1.26 mV/M for 12 dB SINAD (typical)</td>
</tr>
<tr>
<td>Image Rejection</td>
<td>100 dB typically</td>
</tr>
<tr>
<td>Spurious Rejection</td>
<td>100 dB typically</td>
</tr>
<tr>
<td>System Distortion</td>
<td>&lt;0.3% THD (1 kHz modulation, ±15 kHz deviation)</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>14-18 Vdc, 550 mA (negative ground, external ac adapter supplied)</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-20 to 50°C (-4°F to 122°F) (NOTE: Battery characteristics may limit this range)</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>ULXS4: 41 mm H x 219 mm W x 152 mm D (1 5/8 x 8 5/8 x 6 in.)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>ULXS4: 0.6 kg (1 lb 4 oz)</td>
</tr>
</tbody>
</table>

## ULX1 Bodypack Transmitter

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain Adjustment Range</td>
<td>40 dB (continuously adjustable)</td>
</tr>
<tr>
<td>Battery Life</td>
<td>At least 8 hours</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>ULX2/BETA 58: 241 mm L x 50.8 mm Dia. (9 1/2 x 2 in.)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>ULX2/BETA 58: 298 g (10.4 oz) (without battery)</td>
</tr>
</tbody>
</table>

## ULXS4 Standard Diversity Receiver

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>20k Ohm (1/4-inch phone jack) 500 Ohm (XLR Mic)</td>
</tr>
<tr>
<td>Modulation</td>
<td>±38 kHz deviation compressor-expander system with pre- and de-emphasis</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>&gt;105 dB, A-weighted</td>
</tr>
<tr>
<td>RF Sensitivity</td>
<td>1.26 mV/M for 12 dB SINAD (typical)</td>
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<tr>
<td>Image Rejection</td>
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<tr>
<td>Spurious Rejection</td>
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<td>&lt;0.3% THD (1 kHz modulation, ±15 kHz deviation)</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>14-18 Vdc, 550 mA (negative ground, external ac adapter supplied)</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-20 to 50°C (-4°F to 122°F) (NOTE: Battery characteristics may limit this range)</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>ULXS4: 41 mm H x 219 mm W x 152 mm D (1 5/8 x 8 5/8 x 6 in.)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>ULXS4: 0.6 kg (1 lb 4 oz)</td>
</tr>
</tbody>
</table>

## ULXP4 Professional Diversity Receiver

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>20k Ohm (1/4-inch phone jack) 500 Ohm (XLR Line)</td>
</tr>
<tr>
<td>Modulation</td>
<td>±38 kHz deviation compressor-expander system with pre- and de-emphasis</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>&gt;105 dB, A-weighted</td>
</tr>
<tr>
<td>RF Sensitivity</td>
<td>1.26 mV/M for 12 dB SINAD (typical)</td>
</tr>
<tr>
<td>Image Rejection</td>
<td>100 dB typically</td>
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<tr>
<td>Spurious Rejection</td>
<td>100 dB typically</td>
</tr>
<tr>
<td>System Distortion</td>
<td>&lt;0.3% THD (1 kHz modulation, ±15 kHz deviation)</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>14-18 Vdc, 550 mA (negative ground, external ac adapter supplied)</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-20 to 50°C (-4°F to 122°F) (NOTE: Battery characteristics may limit this range)</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>ULXP4: 44 mm H x 219 mm W x 154 mm D (1 3/4 x 8 5/8 x 6 1/16 in.)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>ULXP4: 1.02 kg (2 lb 4 oz)</td>
</tr>
</tbody>
</table>

## ULX2 Handheld Transmitter

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain Adjustment Range</td>
<td>25 dB (continuously adjustable)</td>
</tr>
<tr>
<td>Battery Life</td>
<td>At least 8 hours</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>ULX2/87, ULX2/BETA 87: 216 mm L x 50.8 mm Dia. (8 1/2 x 2 in.)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>ULX2/87, ULX2/BETA 87: 195 g (6.8 oz) (without battery)</td>
</tr>
</tbody>
</table>

## ULX2/58, ULX2/BETA 58

<table>
<thead>
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<td>ULX2/58, ULX2/BETA 58: 241 mm L x 50.8 mm Dia. (9 1/2 x 2 in.)</td>
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<td>Net Weight</td>
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