Wireless Systems
QLX-D® | ULX-D® | UHF-R® | AXIENT™

ULX-D® DIGITAL WIRELESS

Shure ULX-D® Digital Wireless offers uncompromising 24-bit audio clarity and extremely efficient RF performance with single, dual, and quad channel receivers for any size professional sound reinforcement application. Generations ahead of any other available system in its class, ULX-D brings a new level of performance to professional sound reinforcement.

Uncompromising Professional Digital Wireless
- 24-bit/48 kHz digital audio that delivers incredibly clear and accurate sound reproduction
- 20 Hz – 20 kHz frequency range with flat response
- Greater than 120 dB dynamic range
- Wide selection of trusted Shure Microphones

Extremely Efficient and Reliable RF Performance
- Up to 64 MHz overall tuning range (region dependent)
- Up to 17 active transmitters in one 6 MHz TV channel (23 on an 8 MHz TV channel)
- High Density mode enables up to 47 active transmitters in one 6 MHz TV channel
- Rock-solid signal stability with no audio artifacts over the entire 100 meter range
- Optimized scanning automatically finds, prioritizes, and selects the cleanest frequencies available

Scalable, Intelligent Hardware
- Single (half-rack), Dual and Quad (full-rack) receiver form factors
- AES 256-bit encryption equipped for secure wireless transmission
- Dante™ digital networked audio over Ethernet
- Wireless Workbench® 6.11.2 compatible for advanced coordination, monitoring and control; features Site Survey tool for scanning frequencies in the 902-928 MHz ISM band
- Compatible with the Shure SB900 Rechargeable Battery and SBC chargers

APPLICATIONS
- A/V Production & Rental
- Installed Sound
- House of Worship
- Presentation

PRODUCT HIGHLIGHTS
- 24-bit/48 kHz Digital Wireless Audio
- High Density Mode
- Single, Dual, and Quad Channel Receivers
- Advanced Rechargeability
- Dante™ Networked Audio over Ethernet
- Wireless Workbench® 6.11.2 Site Survey Tool
ULX-D® System Specifications

RF Carrier Range 470–932 MHz, varies by region (See Frequency Range and Output Power table)
Working Range 100 m (328 ft)
Note: Actual range depends on RF signal absorption, reflection and interference.
RF Tuning Step Size 25 kHz, varies by region
Image Rejection >70 dB, typical
RF Sensitivity -98 dBm at 10⁻⁵ BER
Latency <2.9 ms
Audio Frequency Response
ULXD1: 20 Hz – 20 kHz (±1 dB)
ULXD2: 30 Hz – 20 kHz (±1 dB)
Note: Dependent on microphone type
Audio Dynamic Range
System Gain @ +10
XLR Analog Output: >120 dB, A-weighted
Dante Digital Output (Dual and Quad receivers): 130 dB (typical), A-weighted
Total Harmonic Distortion
−12 dBFS input, System Gain @ +10
<0.1%
System Audio Polarity Positive pressure on microphone diaphragm produces positive voltage on pin 2 (with respect to pin 3 of XLR output) and the tip of the 6.35 mm (1/4-inch) output.
Operating Temperature Range -18°C (0°F) to 50°C (122°F)
Note: Battery characteristics may limit this range.
Storage Temperature Range -29°C (-20°F) to 74°C (165°F)
Note: Battery characteristics may limit this range.

Frequency Range

<table>
<thead>
<tr>
<th>Band</th>
<th>Range (MHz)</th>
<th>Transmitter Output (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G50</td>
<td>470 to 534</td>
<td>1/10/20</td>
</tr>
<tr>
<td>G51</td>
<td>470 to 534</td>
<td>1/10/20</td>
</tr>
<tr>
<td>G52</td>
<td>479 to 534</td>
<td>1/10</td>
</tr>
<tr>
<td>H51</td>
<td>534 to 598</td>
<td>1/10/20</td>
</tr>
<tr>
<td>H52</td>
<td>534 to 565</td>
<td>1/10</td>
</tr>
<tr>
<td>J50</td>
<td>572 to 636</td>
<td>1/10/20</td>
</tr>
<tr>
<td>K51</td>
<td>606 to 670</td>
<td>1/10</td>
</tr>
<tr>
<td>L50</td>
<td>632 to 696</td>
<td>1/10/20</td>
</tr>
<tr>
<td>L51</td>
<td>632 to 696</td>
<td>1/10/20</td>
</tr>
<tr>
<td>P51</td>
<td>710 to 782</td>
<td>1/10/20</td>
</tr>
<tr>
<td>P51</td>
<td>710 to 782</td>
<td>1/10/20</td>
</tr>
<tr>
<td>JB (Tx only)</td>
<td>806 to 810</td>
<td>1/10</td>
</tr>
<tr>
<td>Q51</td>
<td>794 to 806</td>
<td>1/10/20</td>
</tr>
<tr>
<td>X50</td>
<td>925 to 932</td>
<td>1/10</td>
</tr>
<tr>
<td>X52</td>
<td>902 to 928</td>
<td>0.25/10/20</td>
</tr>
<tr>
<td>X54</td>
<td>902 to 928</td>
<td>0.25/10/20</td>
</tr>
<tr>
<td>X54</td>
<td>902 to 928</td>
<td>0.25/10/20</td>
</tr>
</tbody>
</table>

NOTE: This Radio equipment is intended for use in musical professional entertainment and similar applications. This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies and RF power levels for wireless microphone products.

Rechargeable Power Management (sold separately)

SB900 Rechargeable Battery
ULX-D transmitters are compatible with the SB900 lithium-ion rechargeable battery, which provides up to 10 hours of continuous use and precise tracking of remaining life and charge cycle details.

SBC200 Dual Docking Recharging Station
This compact and portable unit charges batteries while in transmitters or out. Up to 4 SBC200’s can be chained together to run off one power supply.

SBC800 Eight Battery Recharging Station
This compact and portable unit charges up to 8 SB900 batteries to full capacity within 3 hours, with status LEDs to indicate power levels. SB900 batteries fit securely in the charger for easy, efficient storage and transport.

Furnished Accessories

All Systems
PS41US* Power supply
95T9279* 1/2 Wave Receiver Antenna (2)
95K2035 2’ BNC Cable (2)
SBA9964 BNC Bulkhead Adapter (2)
30X26100 Hackmorrow Hardware kit
95A16941 5 ethernet cable
80B8201 2 x AA batteries (bodypack systems)

Handheld Systems
95T9277 Microphone Clip (handheld systems)
95B2313 Handheld Zipper Bag (bodypack systems)

Bodypack Systems
95G9043* Bodypack Antenna
95A2313 Bodypack Zipper Bag (bodypack systems)

*region specific part # (US part listed)

Battery Runtime

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>1 mW</th>
<th>10 mW</th>
<th>20 mW</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB900</td>
<td>&gt;11 hours</td>
<td>&gt;11 hours</td>
<td>&gt;7 hours</td>
</tr>
<tr>
<td>SB900 X52, X53, X54</td>
<td>&gt;10 hours</td>
<td>&gt;10 hours</td>
<td>&gt;7 hours</td>
</tr>
<tr>
<td>Alkaline</td>
<td>&lt;11 hours</td>
<td>&lt;11 hours</td>
<td>&lt;5.5 hours</td>
</tr>
<tr>
<td>NiMH</td>
<td>&lt;11 hours</td>
<td>&lt;11 hours</td>
<td>&lt;8 hours</td>
</tr>
<tr>
<td>Li-primary</td>
<td>12.5-18 hours</td>
<td>12.5-18 hours</td>
<td>9.5-12 hours</td>
</tr>
</tbody>
</table>

www.shure.com
ULXD4 Digital Wireless Receiver

Overview
The Shure ULXD4 is a half-rack wireless receiver for use with ULX-D® Digital Wireless Systems. With an expansive set of professional features, including 24-bit/48kHz digital audio quality, efficient and intelligent RF performance, and AES 256-bit encryption, ULX-D offers uncompromising wireless tailored for professional sound reinforcement.

- Up to 64 MHz tuning range
- Predictive switching diversity
- Intelligent scanning automatically finds and deploys the cleanest frequencies to transmitters over IR sync
- Interference detection and alerts provided on both the receiver and WWB6
- Front panel gain adjustment buttons provide up to 60 dB additional gain
- AES 256-bit encryption-enabled for applications where secure transmission is needed
- Encryption networking for streamlined setup across multiple receivers, WWB6 integration (coming soon), and AMX/Crestron control
- Support for frequency coordination with Axient Spectrum Manager (coming soon)
- Rugged metal chassis
- Intuitive front panel LCD menu and controls
- Easily readible upgraded LCD with adjustable contrast and brightness
- Audio and RF LED meters with peak indicator
- Front panel lockout
- XLR and ¼” outputs
- Removable ½ wave antennas
- Furnished rack hardware

Product Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>197 mm x 171 mm x 42 mm (7.75 in. x 6.75 in. x 1.65 in.), H x W x D</td>
</tr>
<tr>
<td>Weight</td>
<td>913 g (2.0 lbs), without antennas</td>
</tr>
<tr>
<td>Housing</td>
<td>Galvanized Steel</td>
</tr>
<tr>
<td>RF Input</td>
<td>Spurious Rejection &gt;80 dB, typical</td>
</tr>
<tr>
<td>Connector Type</td>
<td>BNC</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Bias Voltage</td>
<td>12 - 13 V DC, 170 mA maximum, per antenna</td>
</tr>
<tr>
<td>Audio Output</td>
<td>Gain Adjustment Range -18 to +42 dB in 1 dB steps (plus Mute setting)</td>
</tr>
<tr>
<td>Configuration</td>
<td>1/4&quot; (6.35 mm): Impedance balanced (Tip=audio, Ring=no audio, Sleeve=ground)</td>
</tr>
<tr>
<td></td>
<td>XLR: Balanced (1=ground, 2=audio +, 3=audio -)</td>
</tr>
<tr>
<td>Impedance</td>
<td>1/4&quot; (6.35 mm): 100 Ω (50 Ω Unbalanced)</td>
</tr>
<tr>
<td></td>
<td>XLR: 100 Ω</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>1/4&quot; (6.35 mm): +12 dBV</td>
</tr>
<tr>
<td></td>
<td>XLR: LINE setting= +18 dBV, MIC setting= -12 dBV</td>
</tr>
<tr>
<td>Mic/Line Switch</td>
<td>1/4&quot; (6.35 mm): Yes</td>
</tr>
<tr>
<td></td>
<td>XLR: Yes</td>
</tr>
<tr>
<td>Networking</td>
<td>Power Over Ethernet (PoE) No, protected</td>
</tr>
<tr>
<td>Network Interface</td>
<td>Single Port Ethernet 10/100 Mbps</td>
</tr>
<tr>
<td>Network Addressing Capability</td>
<td>DHCP or Manual IP address</td>
</tr>
<tr>
<td>Maximum Ethernet Cable Length</td>
<td>100 m (328 ft)</td>
</tr>
</tbody>
</table>

ULXD4 Front Panel

ULXD4 Back Panel

www.shure.com
Component Specifications

ULXD4D Dual Channel Digital Wireless Receiver

Overview
The Shure ULXD4D Dual Channel Digital Wireless Receiver offers two channels of uncompromising audio quality, RF signal stability, and advanced setup features in a space-efficient single rack unit. Digital wireless processing delivers premium 24-bit/48 kHz audio and RF spectrum efficiencies that dramatically increase the number of available compatible channels. With an expansive set of enhanced features including AES 256-bit encryption for security and Dante™ digital networking for audio over Ethernet, the ULXD4D brings a new level of performance to professional sound reinforcement.

- Two receivers in a rugged 1RU metal chassis with internal power supply
- Individual gain controls, LED meters, and XLR outputs for each channel
- Up to 64 MHz tuning range (region dependent)
- Digital predictive switching diversity
- High Density mode optimizes ULX-D systems to simultaneously operate significantly more channels in applications up to 30 meters
- RF cascade ports allow distribution of RF signal to another unit
- Up to 60 dB independently adjustable gain for each channel
- Ethernet networking for streamlined frequency coordination and deployment across multiple receivers
- Wireless Workbench® 6 (WWB6) software integration for advanced coordination, monitoring, and control
- Interference detection and alerts provided on both the receiver and WWB6
- AMX/Crestron control
- AXT600 Axient™ Spectrum Manager compatible
- Intuitive front panel LCD menu and controls with lockout feature
- Audio and RF LED meters with peak indicator
- XLR connectors with switchable mic/line output level
- Remoteable ½ wave antennas

Product Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>44 mm x 482 mm x 274 mm (1.73 in. x 18.97 in. x 10.79 in.), H x W x D</td>
</tr>
<tr>
<td>Weight</td>
<td>3.36 Kg (7.4 lbs), without antennas</td>
</tr>
<tr>
<td>Housing</td>
<td>Steel, Extruded Aluminum</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>100 to 240 V AC, 50-60 Hz, 0.26 A max.</td>
</tr>
<tr>
<td>RF Input</td>
<td>Spurious Rejection &gt;80 dB, typical</td>
</tr>
<tr>
<td>Connector Type</td>
<td>BNC</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Bias Voltage</td>
<td>12 - 13 V DC, 150 mA maximum, per antenna</td>
</tr>
<tr>
<td>Audio Output</td>
<td>Gain Adjustment Range -18 to +42 dB in 1 dB steps (plus Mute setting)</td>
</tr>
<tr>
<td>Configuration</td>
<td>XLR: Balanced (1=ground, 2=audio +, 3=audio -)</td>
</tr>
<tr>
<td>Impedance</td>
<td>100 Ω</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>LINE setting= +18 dBV, MIC setting= -12 dBV</td>
</tr>
<tr>
<td>Mic/Line Switch</td>
<td>30 dB pad</td>
</tr>
<tr>
<td>Phantom Power Protection</td>
<td>Yes</td>
</tr>
<tr>
<td>Networking</td>
<td>Network Interface Dual Port Ethernet 10/100 Mbps, 1 Gbps</td>
</tr>
<tr>
<td>Network Addressing Capability</td>
<td>DHCP or Manual IP address</td>
</tr>
<tr>
<td>Maximum Ethernet Cable Length</td>
<td>100 m (328 ft)</td>
</tr>
<tr>
<td>Cascade Output</td>
<td>Connector Type: BNC, For connection of 1 additional receiver</td>
</tr>
<tr>
<td>Configuration</td>
<td>Unbalanced, passive</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>0 dB</td>
</tr>
</tbody>
</table>

ULXD4D Front Panel

ULXD4D Back Panel
ULXD4Q Quad Channel Digital Wireless Receiver

Overview
The Shure ULXD4Q Quad Channel Digital Wireless Receiver offers four channels of uncompromising audio quality, RF signal stability, and advanced setup features in a space-efficient single rack unit. Digital wireless processing delivers premium 24-bit/48 kHz audio and RF spectrum efficiencies that dramatically increase the number of available compatible channels. With an expansive set of enhanced features including AES 256-bit encryption for security and Dante™ digital networking for audio over Ethernet, the ULXD4D delivers the most wireless performance per square inch.

- Four receivers in a rugged 1RU metal chassis with internal power supply
- Individual gain controls, LED meters, and XLR outputs for each channel
- Up to 64 MHz tuning range (region dependent)
- Digital predictive switching diversity
- High Density mode optimizes ULX-D systems to simultaneously operate significantly more channels in applications up to 30 meters
- RF cascade ports allow distribution of RF signal to another unit
- Optimized scanning automatically finds, prioritizes, and deploys the cleanest frequencies to transmitters over IR sync
- Bodypack Frequency Diversity ensures uninterrupted audio for mission-critical applications
- AES 256-bit encryption-enabled for secure transmission
- Audio summing routes two or more audio channels to combinations of receiver outputs. Use each channel's gain adjustment to reach the desired mix.
- Dante™ digital networking for audio over Ethernet Two receivers in a rugged 1RU metal chassis with internal power supply
- Individual gain controls, LED meters, and XLR outputs for each channel
- Ethernet networking for streamlined frequency coordination and deployment across multiple receivers
- Interference detection and alerts provided on both the receiver and WWB6
- Up to 60 dB independently adjustable gain for each channel
- Wireless Workbench® 6 software integration for advanced coordination, monitoring, and control AMX/Crestron control
- Compatible with the AXT600 Axient™ Spectrum Manager
- Intuitive front panel LCD menu and controls with lockout feature
- Upgraded LCD with adjustable contrast and brightness
- Audio and RF LED meters with peak indicator
- Switchable mic/line output level
- Removable ½ wave antennas

Product Specifications

Dimensions: 44 mm x 482 mm x 274 mm (1.73 in. x 18.97 in. x 10.79 in.), H x W x D
Weight: 3.45 Kg (7.6 lbs), without antennas
Housing: Steel, Extruded Aluminum
Power Requirements: 100 to 240 V AC, 50-60 Hz, 0.32 A max.

RF Input
Spurious Rejection: >80 dB, typical
Connector Type: BNC
Bias Voltage: 12 - 13 V DC, 150 mA maximum, per antenna

Audio Output
Gain Adjustment Range: -18 to +42 dB in 1 dB steps (plus Mute setting)
Configuration: XLR: Balanced (1=ground, 2=audio +, 3=audio -)
Impedance: 100 Ω
Full Scale Output: LINE setting= +18 dBV, MIC setting= -12 dBV
Mic/Line Switch: 30 dB pad
Phantom Power Protection: Yes

Networking
Network Interface: Dual Port Ethernet 10/100 Mbps, 1 Gbps
Network Addressing Capability: DHCP or Manual IP address
Maximum Ethernet Cable Length: 100 m (328 ft)

Cascade Output
Connector Type: BNC. For connection of 1 additional receiver
Configuration: Unbalanced, passive
Impedance: 50 Ω
Insertion Loss: 0 dB

ULXD4Q Front Panel

ULXD4Q Back Panel

www.shure.com
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 10 hours of battery life, precision metering, and zero memory effect
- Up to 11 hours continuous use with 2 x 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

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain Offset Range</td>
<td>0 to 21 dB (in 3 dB steps)</td>
</tr>
<tr>
<td>Battery Type</td>
<td>Shure SB900 Rechargeable Li-Ion or LR6 AA batteries 1.5 V</td>
</tr>
<tr>
<td>Battery Runtime</td>
<td>Shure SB900, &lt;10 hours</td>
</tr>
<tr>
<td>@ 10 mW</td>
<td>Alkaline, 11 hours</td>
</tr>
<tr>
<td></td>
<td>See Battery Runtime Chart</td>
</tr>
<tr>
<td>Dimensions</td>
<td>256 mm x 51 mm (10.1 in. x 2.0 in.) L x Dia.</td>
</tr>
<tr>
<td>Weight</td>
<td>340 g (12.0 oz.), without batteries</td>
</tr>
<tr>
<td>Housing</td>
<td>Machined aluminum</td>
</tr>
<tr>
<td>Audio Input</td>
<td>Unbalanced</td>
</tr>
<tr>
<td>Configuration</td>
<td>System Gain Setting +20</td>
</tr>
<tr>
<td>Maximum Input Level</td>
<td>145 dB SPL (SM58), typical</td>
</tr>
<tr>
<td>1 kHz at 1% THD</td>
<td>Notes: Dependent on microphone type</td>
</tr>
<tr>
<td>Preamplifier Equivalent Input Noise (EIN)</td>
<td>120 dBV, A-weighted, typical</td>
</tr>
<tr>
<td>RF Output</td>
<td>Shure Proprietary Digital</td>
</tr>
<tr>
<td>Antenna Type</td>
<td>Integrated Single Band Helical</td>
</tr>
<tr>
<td>Occupied Bandwidth</td>
<td>&lt;200 kHz</td>
</tr>
<tr>
<td>X52, X53, X54 Occupied Bandwidth</td>
<td>600 kHz</td>
</tr>
<tr>
<td>Modulation Type</td>
<td>Shure Proprietary Digital</td>
</tr>
<tr>
<td>Power</td>
<td>1 mW, 10 mW, 20 mW</td>
</tr>
<tr>
<td></td>
<td>See Frequency Range and Output Power table, varies by region</td>
</tr>
</tbody>
</table>

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

Component Specifications

www.shure.com
ULXD1 Wireless Bodypack Transmitter

Overview
The ULXD1 is a wireless bodypack transmitter compatible with ULX-D® Digital Systems. With a rugged yet lightweight aluminum case, the ULXD1 delivers uncompromising audio quality and RF performance, AES 256-bit encryption for secure transmission, and advanced rechargeability options for professional sound reinforcement applications.

- 20 Hz to 20 kHz range with flat frequency response (actual response is microphone dependent)
- AES 256-bit encryption-enabled for applications where secure transmission is needed
- 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 x 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 SB900 Rechargeable Li-Ion or AA batteries
Battery Runtime
@ 10 mW
Shure SB900: >11 hours
Alkaline: 11 hours
Dimensions 86 mm x 66 mm x 23 mm (3.4 in. x 2.6 in. x 0.9 in.) H x W x D
Weight 142 g (5.0 oz.), without batteries
Housing Cast aluminum

Audio Input
Connector 4-Pin male mini connector (TA4M)
Configuration Unbalanced
Impedance 1 MΩ
Maximum Input Level 1 kHz at 1% THD
Pad Off: 8.5 dBV (7.5 Vpp)
Pad On: 20.5 dBV (30 Vpp)
Preamplifier Equivalent Input Noise (EIN) System Gain Setting x +20
≥ 120 dBV, A-weighted, typical

RF Output
Connector SMA
Antenna Type 1/4 wave
Impedance 50 Ω
Occupied Bandwidth <200 kHz
X52, X53, X54 Occupied Bandwidth 600 kHz
Modulation Type Shure Proprietary Digital
Power 1 mW, 10 mW, 20 mW
See Frequency Range and Output Power table, varies by region

Microphone Options (see catalog for more)

- WL93 WL93 condenser capsule, omnidirectional lavalier mic
- WL183 WL183 condenser capsule, omnidirectional lavalier mic
- WL184 WL184 condenser capsule, supercardioid lavalier mic
- WL185 WL185 condenser capsule, cardioid lavalier mic
- WL50 WL50 condenser capsule, omnidirectional lavalier mic
- WL51 WL51 condenser capsule, cardioid lavalier mic
- SM31FH SM31FH condenser capsule, moisture repellant cardioid headworn mic
- SM35 SM35 condenser capsule, cardioid headset mic
- WCM16 WCM16 condenser capsule, hypercardioid headworn mic
- WH53 WH53 condenser capsule, omnidirectional headworn mic
- WH54 WH54 condenser capsule, supercardioid headworn mic
- WB98HC WB98HC condenser capsule, cardioid instrument clip mic