

ULX-D™ Receivers:

ULXD4 Digital Wireless Receiver



ULXD4D Dual Channel Digital Wireless Receiver



ULXD4Q Quad Channel Digital Wireless Receiver



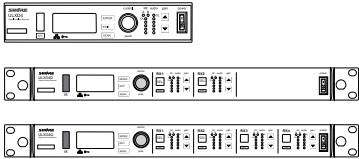
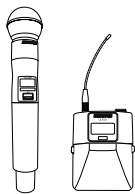
RECEIVER FEATURES

- 24-bit/48 kHz digital audio
- 20 Hz – 20 kHz frequency range with flat response
- Greater than 120 dB dynamic range
- 60 dB of adjustable system gain per channel
- Digital predictive switching diversity
- Up to 64 MHz overall tuning range (region dependent)
- Up to 17 active transmitters in one 6 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 range
- Optimized scanning automatically prioritizes and delivers the cleanest frequencies
- AES 256-bit encryption equipped for secure wireless transmission
- Ethernet networking for streamlined setup across multiple receivers
- Wireless Workbench 6 Software for advanced coordination and control
- AXT600 Axient™ Spectrum Manager compatibility
- Comprehensive 3rd party control and monitoring across subnets
- Rugged metal housing
- Remoteable ½ wave antennas
- Furnished rack hardware

DUAL AND QUAD RECEIVER FEATURES

- Two or four receivers in a rugged 1RU metal chassis
- Internal power supply
- RF cascade ports
- Bodypack Frequency Diversity to ensure uninterrupted audio
- Yamaha® device ID allows simplified channel patching on CL consoles
- 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 networked audio over Ethernet for easy digital connectivity to Dante-enabled mixers

ULX-D™ Digital Wireless Specifications (Note: All specifications are subject to change.)

System	RF Carrier Range	470–932 MHz, varies by region
	Image Rejection	>70 dB, typical
	Latency	<2.9 ms
	RF Sensitivity	-98 dBm at 10 ⁻⁵ BER
	Working Range	100 m (328 ft) line-of-sight <i>Note: Actual range depends on RF signal absorption, reflection and interference.</i>
	Audio Frequency Range	20 Hz to 20 kHz <i>Note: Dependent on microphone type</i>
	Audio Dynamic Range (System Gain @ +10)	Analog Output: >120 dB, A-weighted Dante™ Digital Output: 130 dB (typical), A-weighted
	Total Harmonic Distortion (-12 dBFS input, System Gain @ +10)	<0.1%
	Operating Temperature Range	-18°C (0°F) to 50°C (122°F) <i>Note: Battery characteristics may limit this range.</i>
Receivers 	Dimensions	ULXD4: 171 x 197 x 42 mm (W x D x H) ULXD4D, ULXD4Q: 482 x 274 x 44 mm (W x D x H)
	Weight	ULXD4: 0.9 Kg (2.0 lbs), without antennas ULXD4D: 3.36 Kg (7.4 lbs), without antennas ULXD4Q: 3.45 Kg (7.6 lbs), without antennas
	Power Requirements	ULXD4: 15 V DC @ 0.6 A, supplied by external power supply (tip positive) ULXD4D: 100 to 240 V AC, 50-60 Hz, 0.26 A max. ULXD4Q: 100 to 240 V AC, 50-60 Hz, 0.32 A max.
	Gain Adjustment Range	-18 to +42 dB in 1 dB steps (plus Mute setting)
	Full Scale Output	¼" (6.35 mm): +12 dBV (ULXD4 only) XLR: LINE setting= +18 dBV, MIC setting= -12 dBV (all models)
	Network Interface	ULXD4: Single Port Ethernet 10/100 Mbps ULXD4D, ULXD4Q: Dual Port Ethernet 1 Gbps
	Network Addressing Capability	DHCP or Manual IP address, with or without gateway
	Housing	ULXD4: Galvanized steel ULXD4D, ULXD4Q: Steel; Extruded Aluminum
Transmitters 	Dimensions	ULXD1: 86 mm x 66 mm x 23 mm (3.4 in. x 2.6 in. x 0.9 in.) H x W x D ULXD2: 256 mm x 51 mm (10.1 in. x 2.0 in.) L x Dia.
	Weight	ULXD1: 142 g (5.0 oz.), without batteries ULXD2: 340 g (12.0 oz.), without batteries
	Battery Runtime @ 10 mW	Shure SB900 Rechargeable Li-Ion: >11 hours 2 x AA Alkaline: <11 hours
	Power	1 mW, 10 mW, 20 mW <i>See Frequency Range and Output Power table, varies by region</i>
	Housing	ULXD1: Cast Aluminum ULXD2: Machined Aluminum
	Antenna Type	ULXD1: ¼ wave detachable ULXD2: Integrated single band helical

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