

# Component Specifications

## UR4S+ & UR4D+ Diversity Receiver

### Overview

The UR4S+ and UR4D+ receivers provide single and dual-channel options for the premium Shure UHF-R Wireless line. Using the latest in wireless technologies, UHF-R receivers provide advanced control and robust flexibility for a wide range of professional uses.

- Up to 2400 selectable frequencies across 60 MHz bandwidth
- Track Tuning Filtering technology
- Up to 40 preset compatible systems/band (160 w/multiple bands, region dependent)
- Networked automatic frequency selection
- Automatic transmitter setup (including custom group upload)
- Flash memory to store six 60-channel custom frequency groups
- Patented Audio Reference Companding
- Multi-function bit-mapped backlit LCD
- Built-in USB & ethernet network compatibility
- Wireless Workbench control/monitoring software
- Removable antennas
- RF distribution ports allow up to 10 receivers to share a single pair of antennas.
- Microprocessor-controlled diversity

### Product Specifications

Overall Dimensions	44 mm H x 483 mm W x 366 mm D (1.72 x 19.00 x 14.39 in.)
Net Weight	UR4S <sup>+</sup> : 10.9 lbs (5.0 kg) UR4D <sup>+</sup> : 11.2 pounds (5.1 kg)
Housing	Galvanized Steel
Audio Output Level	+24 dBu (-6 dBu mic)
Output Impedance	200 Ω active balanced (150 Ω mic)
RF Sensitivity	UR4S <sup>+</sup> : -110 dBm typical for 12 dB SINAD; -105 dBm typical for 30 dB SINAD UR4D <sup>+</sup> : -107 dBm typical for 12 dB SINAD; -102 dBm typical for 30 dB SINAD
Image Rejection	110 dB typical
Spurious Rejection	90 dB typical
Audio Polarity	Positive pressure on microphone diaphragm (or positive voltage applied to tip of WA302 phone plug) produces positive voltage on XLR output pin 2 with respect to XLR pin 3 and on the tip of the 1/4-inch output jack.
Power Requirements	90 to 230 Vac, 50/60 Hz
Power Consumption	UR4S+: 9.6 – 13.2 W; UR4D+: 12 – 16 W; UA845: 15 -16 W

### Available Models

UR4S+	Single Channel Wireless Receiver
UR4D+	Dual Channel Wireless Receiver

### Architectural Specifications

The wireless microphone system shall operate in the UHF band and provide a tone key (32,768 kHz) to increase reliability and to minimize unwanted noise. The system shall allow to change the operating frequency in 25 kHz steps in order to avoid RF interference, enabling up to 47 systems to operate simultaneously in one frequency band. Pre-configured group, channel and frequency setups shall be available to ensure that multiple systems in use do not interfere with one another. Additionally multiple free programmable frequency groups shall allow to create customized setups. An IR synchronization between receiver and transmitter for fast setup shall be implemented.

The receiver shall have a user programmable menu-driven LC display showing group, channel, frequency, name, output level, squelch level, and lock status as well as the most important transmitter settings. It shall use technology such as MARCAD® signal combining circuitry for improved reception, minimized signal dropouts, and the best possible signal-to-noise ratio. Tone key squelch, and noise squelch circuitry shall be implemented to provide optimal sound quality and minimize unwanted noise. The receiver shall include an RF meter for each antenna, an audio level meter, and networking interface connectors for PC control and monitoring. The receiver shall have a volume control and an adjustable noise squelch control.



RF distribution ports allow up to 10 receivers to share a single pair of antennas.



UR4S+ Diversity Receiver Front



UR4D+ Diversity Receiver Front



UR4S+ Diversity Receiver Back



UR4D+ Diversity Receiver Back

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