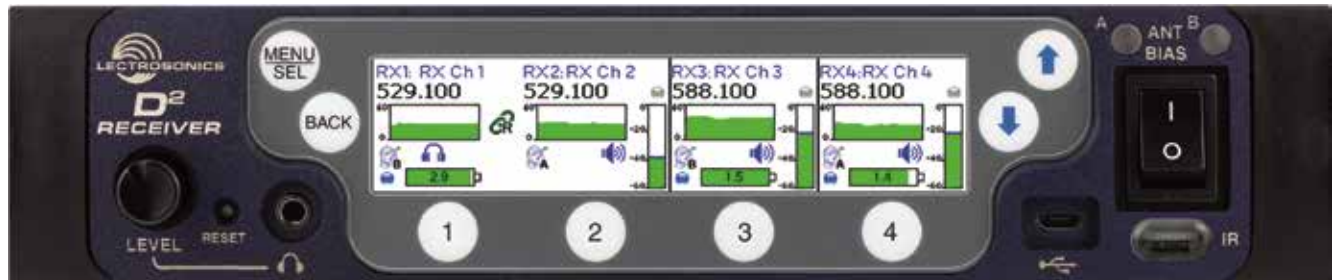


### 4 Channel Digital Receiver DSQD, DSQD/AES3



- Four-channel, half-rack design
- Continuously tunable tracking filters covering 470.100 - 614.375 MHz
- Compatible with DSW, Duet and Digital Hybrid Wireless® transmitters
- Built-in wideband antenna multicoupler with loop-thru for additional receivers
- Antenna bias power enabled from the front panel (fused and over-temperature protected)
- IR bi-directional port for transmitter setup
- Analog and Dante® audio outputs with TalkBack (in applicable RX modes)
- Ethernet and USB interface
- Offline full-system frequency coordination

The DSQD Half Rack Receiver with analog and digital Dante® network audio outputs utilizes the Lectrosonics signature digital architecture with remarkable audio quality and ultra-low latency. The receiver includes an extended operating range rivaling the best analog and Digital Hybrid Wireless® systems with continuously tunable tracking filters covering 470.100 - 614.375 MHz.

The DSQD Receiver is a four-channel design with a host mainframe that contains the DSP, microprocessor, antenna multicoupler and control interface.

Antenna ports on the rear panel accept input from remote antennas, with a “loop-thru” output to another mainframe using the internal multicoupler. A kit is also available to mount antenna inputs (BNC connectors) on the front panel.

#### DSQD Front Panel

##### Headphone Monitor

Monitor any individual audio channel, or a stereo mix between pairs. Volume knob recesses into front panel.

##### LCD Control Panel

Easy navigation of all setup parameters is provided by a full color, backlit, LCD screen and membrane push buttons. The high resolution display provides fantastic monitoring of all receiver parameters.

##### 2-Way IR

A bidirectional IrDA interface allows quick syncing of settings and encryption keys to transmitters with the push of a button.

##### USB Port

Easily interface to Wireless Designer or third-party software via the standard USB port, greatly accelerating setup time and expanding system monitoring capabilities.

##### LED Indicators

Two LEDs provide positive indication of antenna bias power state.





## DSQD Rear Panel

### Antenna Ports

Antenna inputs and outputs to an additional DSQD allow “stacking” of up to three mainframes with a single pair of antennas.

### Audio Outputs

Four full-size XLR jacks provide analog outputs.

### Dante® Ethernet Ports

Dual Dante Ethernet ports provide the ability to daisy chain multiple DSQDs onto a Dante Audio Network.

### AES3 Ports (DSQD/AES3 option)

AES3 outputs on two TA3M jacks (in place of the two Dante ports shown)

### Ethernet Port

Easily interface to Wireless Designer or third-party software via the control Ethernet port, greatly accelerating setup time and expanding system monitoring capabilities.

### Power Supply Input

The DSQD is powered by 7 to 18 VDC from an external source capable of 2.5 amps.

## Specifications

|                             |  |
|-----------------------------|--|
| Operating Spectrum:         | 470.100 - 614.375 MHz  |
| Frequency Adjustment Range: | 25 kHz steps   |
| Sampling Size and Rate:     | 24-bit, 48 kHz   |
| Digital Modulation:         | 8PSK with Forward Error Correction   |
| Data Encoding:              | Proprietary ADPCM  |
| Encryption:                 | AES 256-CTR<br>(per FIPS 197 and FIPS 140-2)   |
| System Latency:             |  |
| Digital Output:             | D2 mode: 0.75 ms plus Dante<br>Duet mode: 1.4 ms plus Dante<br>Hybrid modes: 2.0 ms plus Dante |
| Analog Output:              | D2 mode: 1.25 ms<br>Duet mode: 1.9 ms<br>Hybrid modes: 2.5 ms                                  |
| Audio Performance:          |  |
| Frequency Response:         | 20 Hz - 20 KHz, +/-1 dB  |
| THD+N:                      | 0.05% (1 KHz @ -10 dBFS)   |

|                             |  |
|-----------------------------|--|
| Dynamic Range:              | 108 dB A-wtd, NR=NORMAL                          |
| Adjacent Channel Isolation: | >85 dB   |
| Diversity Technique:        | Noiseless antenna switching                      |
| Sensitivity:                | -98 dBm for 10 <sup>-5</sup> BER                 |
| Antenna Inputs/Outputs:     | Dual BNC female, 50 ohm impedance                |
| Audio Outputs:              |  |
| XLR:                        | Balanced, -35 to +8 dBu                          |
| Headphone:                  | 1/4 inch phone jack                              |
| Dante model only:           | RJ45 Gigabit Ethernet                            |
| AES3 model only:            | TA3M   |
| External DC Power:          | 7 to 18 VDC; 2.5A (max)                          |
| Weight:                     | 1.95 lbs.; 880 grams                             |
| Dimensions:                 | 8.375 x 1.75 x 7.375 in.<br>213 x 44.5 x 187 mm. |

*Specifications subject to change without notice.*

## Summary of Dante® Benefits

- Plug-and-play technology – automatic discovery and simple signal routing
- Reduced Cost & Complexity – No special skills required to set up audio networking
- Sample accurate playback synchronization
- Lowest latency available from any networking technology
- Add/remove/rearrange components at will
- Deterministic latency throughout the network
- Support mixed bit depths and mixed sample rates over one network
- Scalable, flexible network topology supporting a large number of senders and receivers
- Supports 1Gbps networks
- Supports a single integrated network for audio, video, control, monitoring
- Uses inexpensive, off-the-shelf computer networking equipment



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