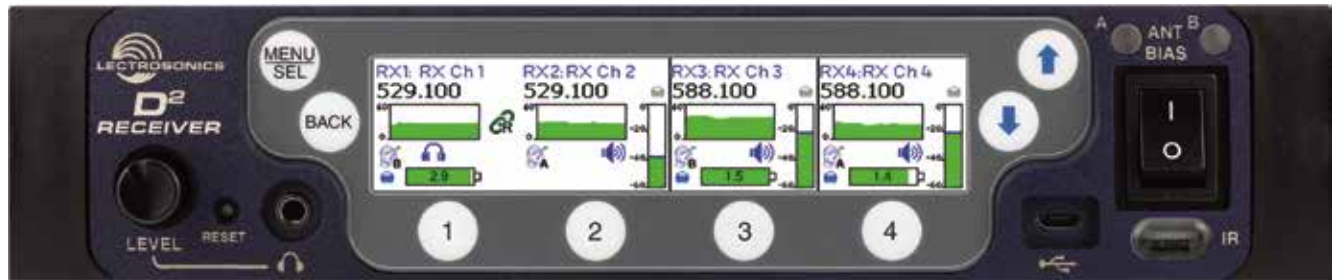


### 4 Channel Digital Receiver



- 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.

### 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.

## 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

## 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 (per FIPS 197 and FIPS 140-2)
<b>Latency:</b>	
Digital Source:	1.0 ms plus Dante network
Analog Source:	<1.4 ms
<b>Audio Performance:</b>	
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
<b>Audio Outputs:</b>	
XLR:	Balanced, -35 to +8 dBu
Headphone:	1/4 inch phone jack
Dante:	RJ45
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. 213 x 44.5 x 187 mm.

Specifications subject to change without notice.



*Dante® is a trademark of Audinate Pty Ltd.*



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