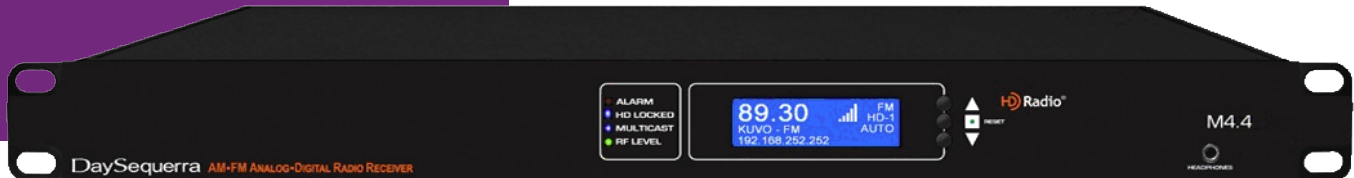


# M4.4

## AM-FM Digital Radio Receiver

# DaySequerra



## Robust AM-FM and HD Radio® Receiver

DaySequerra has improved its breakthrough AM/FM HD Radio® broadcast receiver which now features:

- Front panel reset – no rear panel power switch
- Remote updates tolerant of high latency networks
- Direct File Upload for easy off-line updates
- Side-vented EMI hardened enclosure with low noise, auto-sensing 85-264 VAC power supply

### Additional Tuner Features

- **Stays Locked** – Proprietary StreamLock technology make sure the M4.4 stays locked to the stream you've selected – AM-FM analog, AM-FM HD Radio MPS or HD-1 through HD-8, even if the broadcast or your AC power is interrupted; does not automatically revert to analog!
- **Analog AM-FM plus HD Radio** – Complete monitoring of HD Radio AM/FM broadcasts including FM multicast channels HD-2 through HD-8: user-selectable tuning steps and analog FM 50/75  $\mu$ Sec de-emphasis.
- **Time-Alignment** – Monitor your HD Radio HD-1/MPS diversity delay using the built-in Split-Mode feature.
- **Bright graphic LCD** – Provides front panel display for all RBDS and HD Radio PAD/SIS, along with network and alarm conditions; audio level, digital audio quality and carrier quality indication.
- **Built-in Webserver** – Remote Webserver for remote control and logging using any browser on your Ethernet network; 10 presets per band.
- **Powerful Audio Outputs** – XLR balanced analog outputs +4 dBm @ 100% modulation; high-performance headphone monitor delivering greater than 1W into 8-ohm
- **Front Panel Lockout** – Prevents unauthorized setting changes.
- **All tuners are RDS/RBDS capable**

- ✓ **Stays locked to Multicasts**
- ✓ **Remote Control and Reset**
- ✓ **Internet Email - no PC required**

# M4.4

## AM-FM Digital Radio Receiver



## TECHNICAL SPECIFICATIONS

### RF TUNING RANGE

- AM: 520 kHz to 1720 kHz (user selected 9 kHz or 10 kHz increments)
- FM: 87.9 MHz to 108.1 MHz (user selected 100 kHz or 200 kHz increments)

### RF USABLE SENSITIVITY

- AM: < 20 dBf (-100 dBm) for SNR -20 dB referenced to 30% modulation
- FM: < 15 dBf (-100 dBm) for SNR -30 dB referenced to 100% modulation

### RF INPUT

- F-Type 75-ohm connectors
- AM-FM: -55 dBm Nominal; -20 dBm Maximum

### IF REJECTION

- AM: > 100 dB for SNR -20 dB
- FM: > 100 dB for SNR -30 dB

### IMAGE REJECTION

- >65 dB

### FM ALTERNATE CHANNEL SELECTIVITY

- >70 dB

### AM ADJACENT CHANNEL SELECTIVITY

- >35 dB

### AF BANDWIDTH – HD RADIO

- AM:  $\pm 1$  dB, 40 Hz to 15 kHz
- FM:  $\pm 1$  dB, 20 Hz to 20 kHz

### AF BANDWIDTH – ANALOG

- AM:  $\pm 1$  dB, 40 Hz to 9 kHz (NRSC filter)
- FM:  $\pm 1$  dB, 20 Hz to 16 kHz

### FM DE-EMPHASIS

- 50  $\mu$ SEC or 75  $\mu$ SEC (User-selected)

### ANALOG AUDIO OUTPUTS

- Left/Right Balanced XLR connectors
- +4 dBm into 600 ohm at 100% modulation

### DIGITAL AUDIO OUTPUT

- AES-3 Professional, 110-ohm transformer-isolated on XLR Connector
- 0 dBFS < 0.005% THD+N using HD Radio™ input

### HD RADIO™ HYBRID ACQUISITION

- < 4.5 seconds

### HD RADIO™ SPLIT-MODE

- L+R FM-MPS on left channel and L+R HD1 on the right channel of Analog Digital and Headphone audio outputs

### ALARM NOTIFICATION

- 5-rear panel tallies, front panel indications and email for loss of Audio, Carrier, OFDM HD Radio Lock, Multicast Available and PAD-RBDS

### HD RADIO™ PAD AND SIS DATA

- SIG, SIS, Extended SIS, AAAS and LOT; PAD including station long and short name, program type, song file, artist, album, genre and comment fields

### RDS/RBDS CAPABLE

- All tuners are RDS/RBDS capable

### RBDS DATA

- PI (Call Letters), PS (Program Service), PTY (Program Type), and RT (Radio Text)

### AC POWER

- Auto-sensing 85-264 VAC, 47-63 Hz input

### ENVIRONMENTAL

- Operating Temperature: +41 to +105° F (+5 to +40° C)
- Storage Temperature: -13 to +140° F (-25 to +60° C)
- Relative Humidity: Maximum 85%, non-condensing

### DIMENSIONS

- 1RU EMI-hardened; 19" (48.26cm) W x 14" (35.56cm) D x 1.75" (4.44cm) H

### SHIPPING WEIGHT AND DIMENSIONS

- 12 LBS (5.44kg); 21" (53.34cm) W x 17" (43.18cm) D x 4.74" (12.07cm) H

### WARRANTY

- Three years, limited parts and labor