

DaySequerra

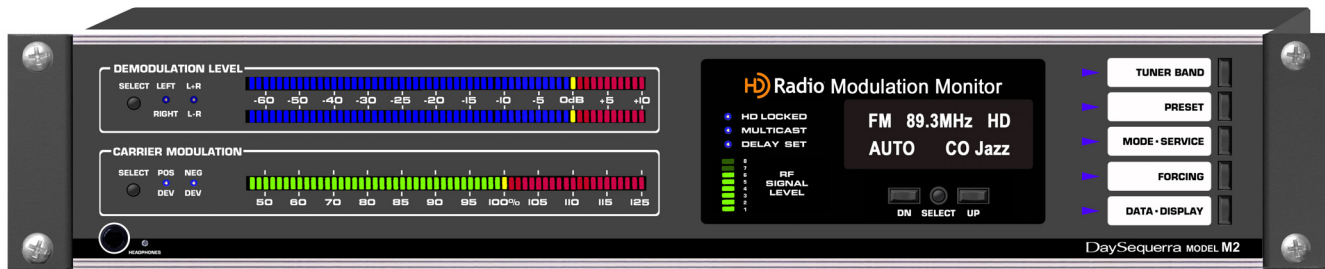
M2.0 HD Radio™ Modulation Monitor

Full-featured HD Radio® Modulation Monitoring

The DaySequerra M2.0 HD Radio™ modulation monitor has been designed to meet the demands of the professional broadcast market and deliver the highest quality, accurate monitoring of HD Radio™ AM and FM broadcast signals. Its ultra low noise RF front-end with built-in preselector and double-balanced mixer provides benchmark sensitivity of 5.0dBf for FM broadcasts. The M2's over-sampling DAC and Class-A biased audio outputs provide the highest fidelity demodulation of HD Radio™ programs (THD+N < .005% with stereo separation >90dB), including display of program specific data (PSD) for MPS and SPS Multicast signals.

The DaySequerra M2.0 HD Radio™ modulation monitor features include:

- Synthesized, pushbutton tuning for AM and FM bands including Multicast channels
- High level direct (+7 Vp-p) and antenna level RF inputs for both AM and FM bands
- Balanced audio outputs at +4dBV on 3.5mm Eurostyle (Phoenix) modular connectors
- Transformer-isolated 110ohm SPDIF digital audio output – 5.1 surround capable
- 20 preset stations each for AM and FM bands
- Bright, accurate bargraph metering of HD Radio™ and analog programming
- HD audio Locked and Delay Bit (active analog diversity delay) front panel indicators
- High-current, Class A headphone output with screwdriver gain control on front panel
- HD Radio™ digital to analog program time-alignment monitor
- Optional **M2.2 Remote Dashboard™** application software and network interface for M2 remote control and HD Radio™ signal monitoring



The M2.0 is the first “**Tomorrow Radio Ready**” modulation monitor available with built-in Multicast demodulation capability, and its robust, modular architecture ensures that the M2.0 will never become obsolete. The rugged M2.0 chassis houses dedicated RF, audio, CPU and power supply modules that along with firmware updates via flash programmable memory, completely anticipate future HD Radio™ services and programming. This design approach along with our product update program ensures that a broadcaster’s investment in a DaySequerra product will continue to pay off well into the future.

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M2.0 HD Radio™ Modulation Monitor

High Resolution Displays

The high-resolution 58-segment multi-color LED carrier modulation meter can display positive peaks only, negative peaks only, or both simultaneously from 46% to 125% with a 5% resolution full range and a 1% resolution between 80% and 105%. Measurement integration time is user programmable at 0.1mSec, 0.2 mSec, 0.5 mSec or 1.0 mSec.

The demodulated audio multi-color LED meter displays Left and Right or L+R and L–R demodulated program audio. The display is peak responding between +10dB and –30dB, and average responding between –30dB and –64dB.

The M2.0's multifunction VFD (vacuum florescent display) provides tuner status and HD Radio™ PSD information including station, title, artist, album, genre, program type and comment for HD Radio™ MPS and SPS Multicast signals. Delay Bit (active analog diversity delay) and HD audio Locked indicators are provided on the M2.0's front panel.

Digital Audio Output and HD Radio™ Digital to Analog Delay Alignment

Digital broadcasts are converted into analog audio using a low jitter digital-to-analog converter with THD+N <.005%. A transformer isolated 110ohm digital audio output is provided in industry standard SPDIF format for all HD Radio™ broadcasts. The M2's split-channel capability confirms proper time-alignment of analog and HD Radio™ programming.

Upgrade Path

The M2.0's unique architecture, modular design and on-board flash based microprocessors permit a clear upgrade path without losing any value of a broadcast station's original hardware investment.

Option M2.1 adds FM analog signal monitoring capabilities to the M2.0 including peak-type measurements of the injection level for 19kHz pilot, 38kHz, 57kHz, 67kHz and 92 kHz sub-carriers, and front panel indications for synchronous AM noise. A rear panel MPX Output for external sub-carrier decoding is also included.

Option M2.2 includes **M2.2 Remote Dashboard™** software, a proprietary PC-based application, and a network interface that permits remote control and monitoring of the M2.0 for both AM and FM HD Radio™ broadcasts.

Power Requirements and Size / Weight

105–130VAC or 210–260VAC, 50/60Hz; 15 watts.
3½"H x 19"W x 14"D (2U) including integral rack mount; 18 lbs. (shipping weight).

The DaySequerra M2 is covered by a three-year limited warranty on all parts and labor. Other rights and exclusions apply. Please see complete warranty form for details.