Option for RF CAPTURE & PLAYBACK SYSTEM

HD Radio® Vector Signal Generator

WEIEVR 2.0 / Player Generates Certified HD Radio Test Signals
Covering frequencies from 100KHz to 2.7GHz Max. 56MHz bandwidth recording

The WEIVER 2.0 player are HD Radio signal sources designed to play pre-recorded test vector files that replicate various HD Radio service modes and channel configurations. Every New WEIVER 2.0 HD radio signal source has a Ultra-fast SSD for test vector storage. New test vectors can be added to existing your WEIVER 2.0 and WEIVER 2.0 player. For a basic service fee, the existing WEIVER 2.0 or Player can be sent to LUMANTEK for the upgrade. WEIVER is certified by iBiquity Digital Corporation, the sole developer and licenser of HD Radio technology.

External SSD

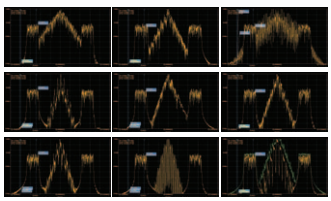
TOTAL 176 LIBRARIES

AM / FM total

HD RADIO VECTOR SIGNAL GENERATOR
COMES WITH AN OFFICIAL AM/FM VECTOR LIBRARIES
BY IBIQUITY

176 SPECTRUM MASKS

INDIVIDUAL SPECTRUM MASKS
OF YOUR CHOICE



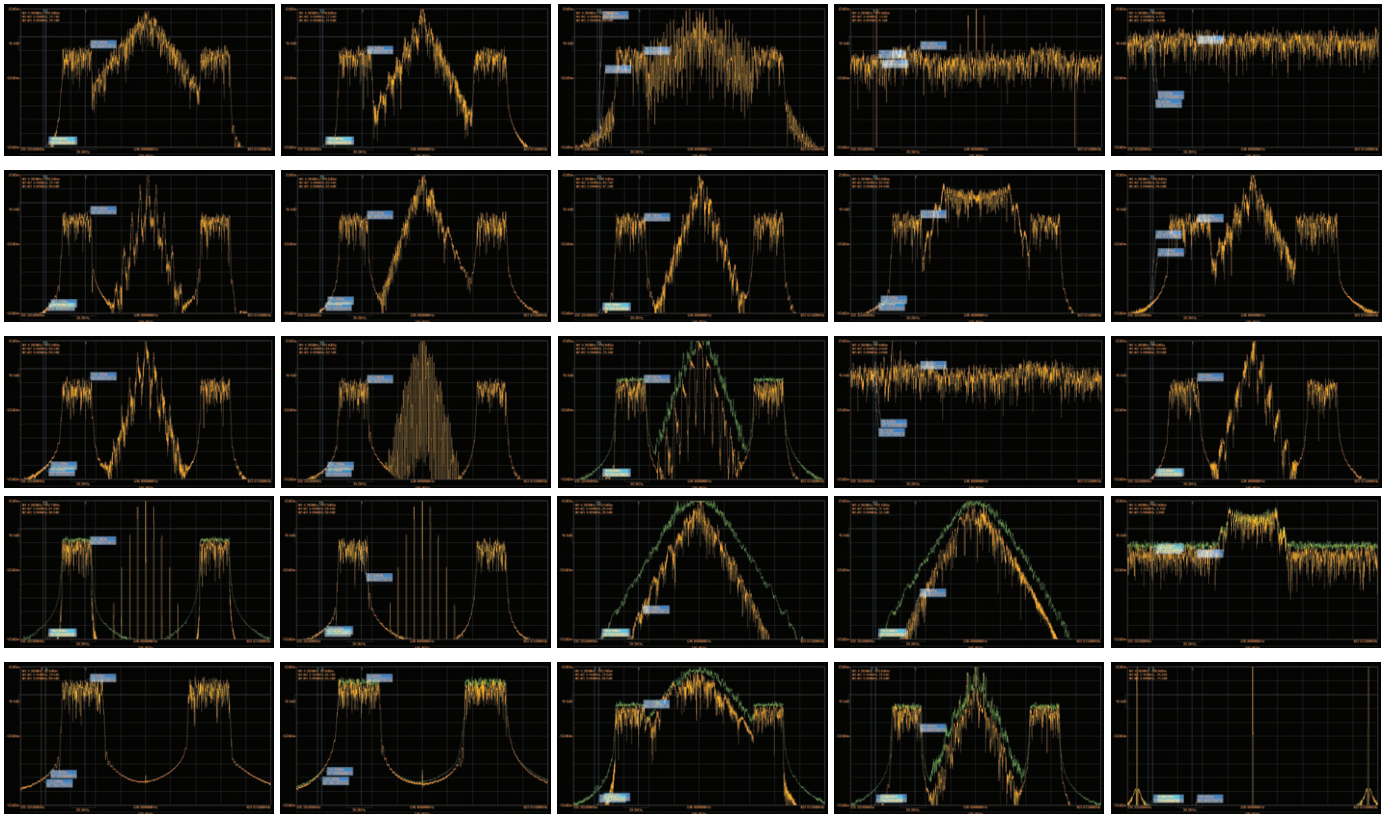
Expression of 176 Vector files in
Spectrum Masks

176 HD RADIO Vector Libraries / 176 Spectrum Masks

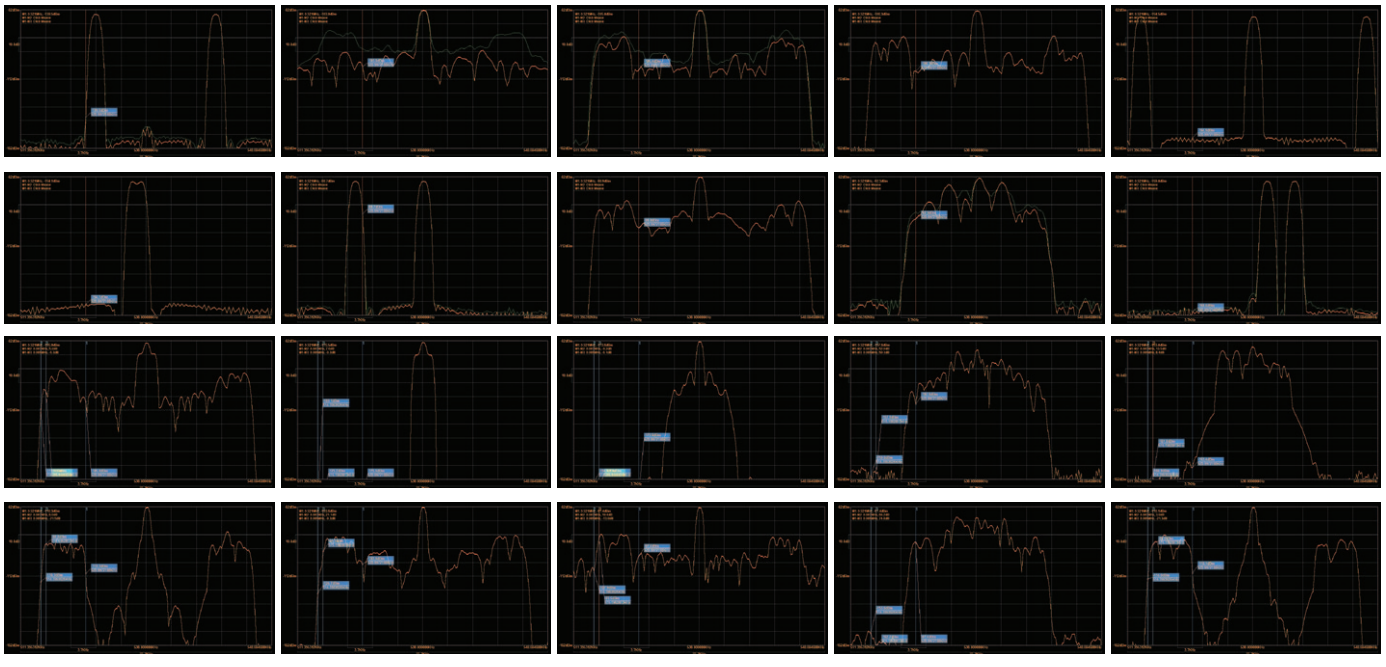
WEIVER 2.0 / Player Generates Certified HD Radio Test Signals

The WEIVER 2.0 player contains a full suite of test vectors or signals stored on the instruments SSD with our HD signal generator. WEIVER 2.0 player is a versatile signal source for engineers designing and developing new analog/digital AM or FM HD Radio products. WEIVER 2.0 player is designed for production & R & D testing with a simplified user interface, and includes one vector for AM, and one vector for FM HD radio

< FM Test vectors>



< AM Test vectors>>



HD Radio Vector Signal Generator Specification

Frequency

Frequency band	100 KHz to 1 GHz
Frequency resolution	1KHz min.
Freq. Stability vs. Temp	±20 ppb max.
Daily Aging	±1 ppb max.
Aging (PER year)	±50 ppb max.

Spectral Purity

Phase Noise@ 1 KHz offset	HF HF_Low Noise LF	≤ -100 dBc/Hz (30 MHz) ≤ -95 dBc/Hz (1 GHz) ≤ -90 dBc/Hz (2.7 GHz)
Phase Noise@ 10 KHz offset	HF HF_Low Noise LF	≤ -105 dBc/Hz (30 MHz) ≤ -100 dBc/Hz (1 GHz) ≤ -95 dBc/Hz (2.7 GHz)

Spurious Responses

2nd Harmonic	≤ -50dBc
3rd Harmonic	≤ -60dBc
other	≤ -60dBc

Environment

Operating temperature	v0 to +50 ℃
Relative humidity	90%
Storage temperature	-20 to +70 ℃

RF Output Characteristics

Gain range	-30 ~ +30dB (Input Level Basis)
Amplitude resolution	0.1dB step (Min.)
Amplitude accuracy	±1dB
Power	0dBm max.(48 to 2700 MHz) +10dBm max.(0.1 to 48 MHz)

RF Output

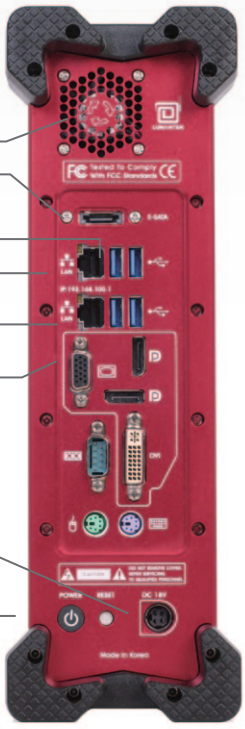
RF output port	50ohm, N type female, DC-coupled
Max. DC input	±25 VDC max.
Max. reverse RF power	1 W (Max.)

Power	Input power Power Consumption	+18 VDC 70 Watt
Adaptor spec	AC INPUT DC OUTPUT	100-240V ~ 3-1.5A, 50-60Hz 18V / 4.5A
Mechanical (WEIVER 2.0)	Dimensions : (L)406mm x (W)305mm x (H)100mm Weight : 7.5 Kg (Approx.)	
WEIVER 2.0 Player	Dimensions : (L)406mm x (W)305mm x (H)100mm	

HD Radio Vector Signal Generator Platform 1 - WEIVER 2.0 Player

External SSD

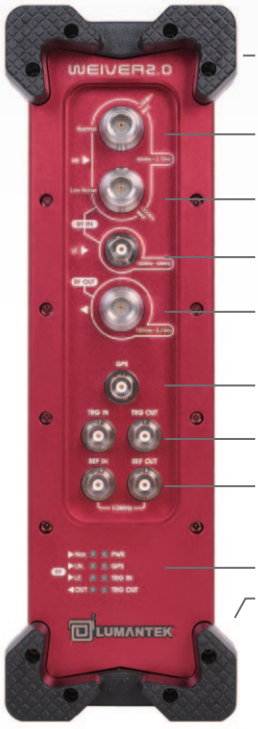
HD Radio Vector Signal Generator Platform 2 - WEIVER 2.0



Cooling Fan (Out)
e-SATA Port(hot swap)
USB 3.0 Ports (x4)
Gigabit LAN Port (Ethernet Connection)
Gigabit LAN Port (Direct Connection)
VGA Port
DC Power Jack
Power Button

Side - Rear

100 mm



Protective Bumper
RF In(HF Normal)
RF In(HF LowNoise)
RF In(LF Normal, LF AM)
RF Out
GPS In
Trigger In/out
REF In/out (10 MHz)
Multi-color LED Status
Sleek but sturdy Aluminum construction

Side - Front

LUMANTEK®

WEIVER 2.0 Features

- Ultra small footprint and lightweight for convenience and Hassle-free mobility
- Lowest Power Consumption(available Automotive cigar power use < 70W)
- Frequency range : 100KHz to 1GHz
- Arbitrary Waveform Generator with I/Q.
- Instant, one-click programmable upgrades.
- External trigger function.
- 2 highly-stable, internal SSD (ROM & Storage) with lightning-fast read/write speeds.
- Flexible e-SATA connectivity for real-time capture and playback from external 1TB SSD (optional).
- Secure, versatile connectivity : Gigabit LAN 2 ports for convenient operations via the notebook.
- All-aluminum construction for industrial-strength durability.
- Attractive sales point and value for money (Low TCO).
- Versatile connectivity options available (Ad-Hoc, Direct Connect).
- Export feature for reporting and documentation (.xls format).

FM Recording

DAB Recording

DAB to FM - Seamless Handover Testing System for AUTOMOTIVES

Two or more WEIVER devices can be Synchronized by an external H/W switch, the 'WEIVER Syncer'.
Synchronized WEIVER devices perform a simultaneous RF Capture and Playback in nanoseconds.