

Option for RF CAPTURE & PLAYBACK SYSTEM

HD Radio® Vector Signal Generator

WEIVER 2.0 / Player Generates Certified HD Radio Test Signals

Covering frequencies from 100KHz to 2.7GHz Max. 56 MHz bandwidth recording

Introducing Weiver 2.0 and Weiver 2.0 Player as a HD Radio Vector Signal Generator, designed to play pre-recorded test vector files that replicate various HD Radio service modes and channel configurations.

The HD Radio Vector Signal Generator comes with an ultra-fast SSD as a test vector storage. Test vectors newly released by Xperi can be also added upon request.

For a basic service fee, already purchased WEIVER 2.0 or Player can be sent to LUMANTEK for the upgrade.

WEIVER is certified by iBiquity Digital Corporation, the sole developer and licensor of HD Radio technology.

External SSD



TOTAL 660 LIBRARIES

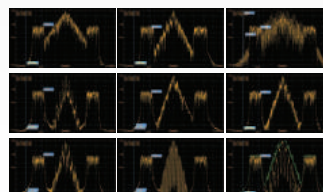
AM / FM total



HD Radio Vector Signal Generator comes with an official AM/FM vector libraries by IBIQUITY

660 SPECTRUM MASKS

INDIVIDUAL SPECTRUM MASKS OF YOUR CHOICE

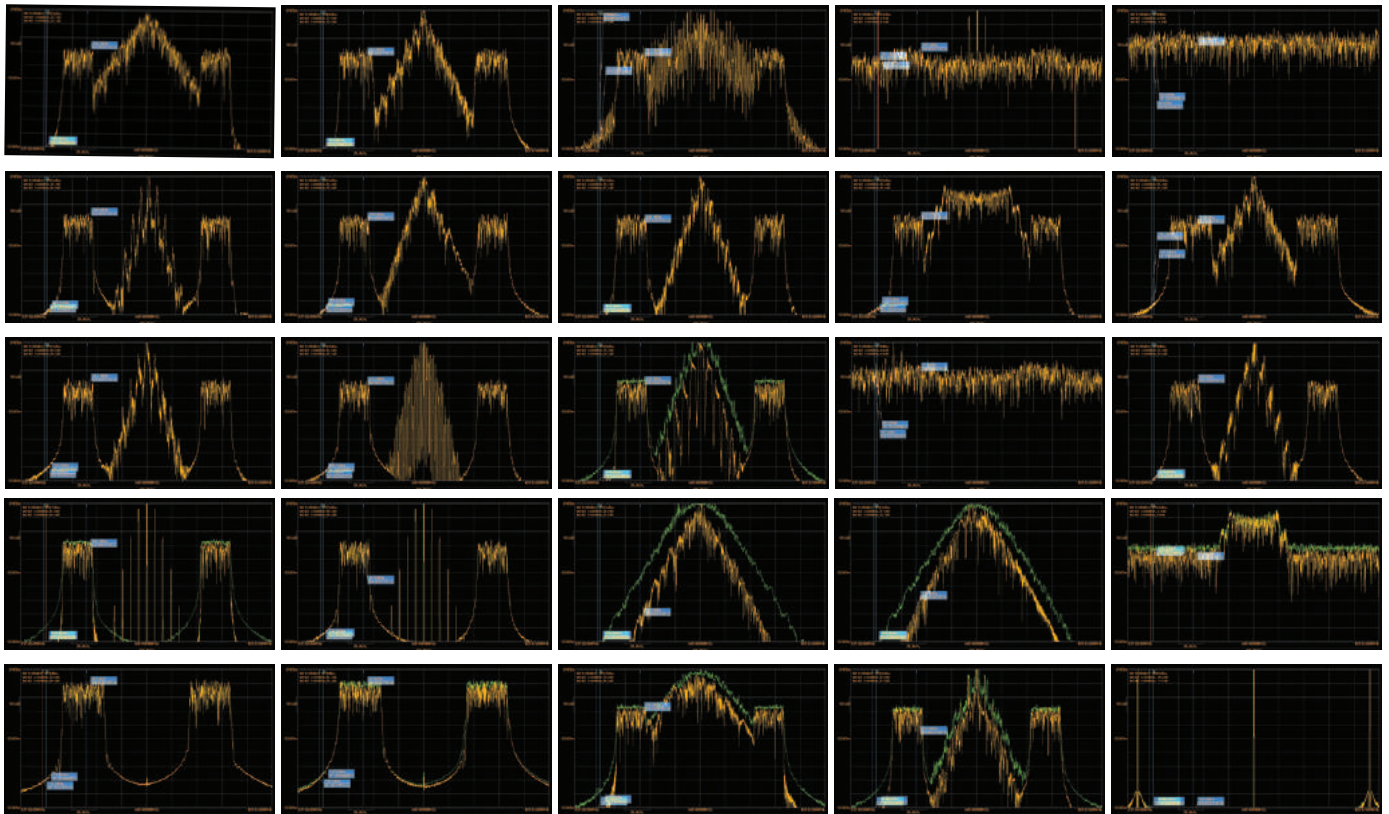


Expression of 660 vector files in spectrum masks

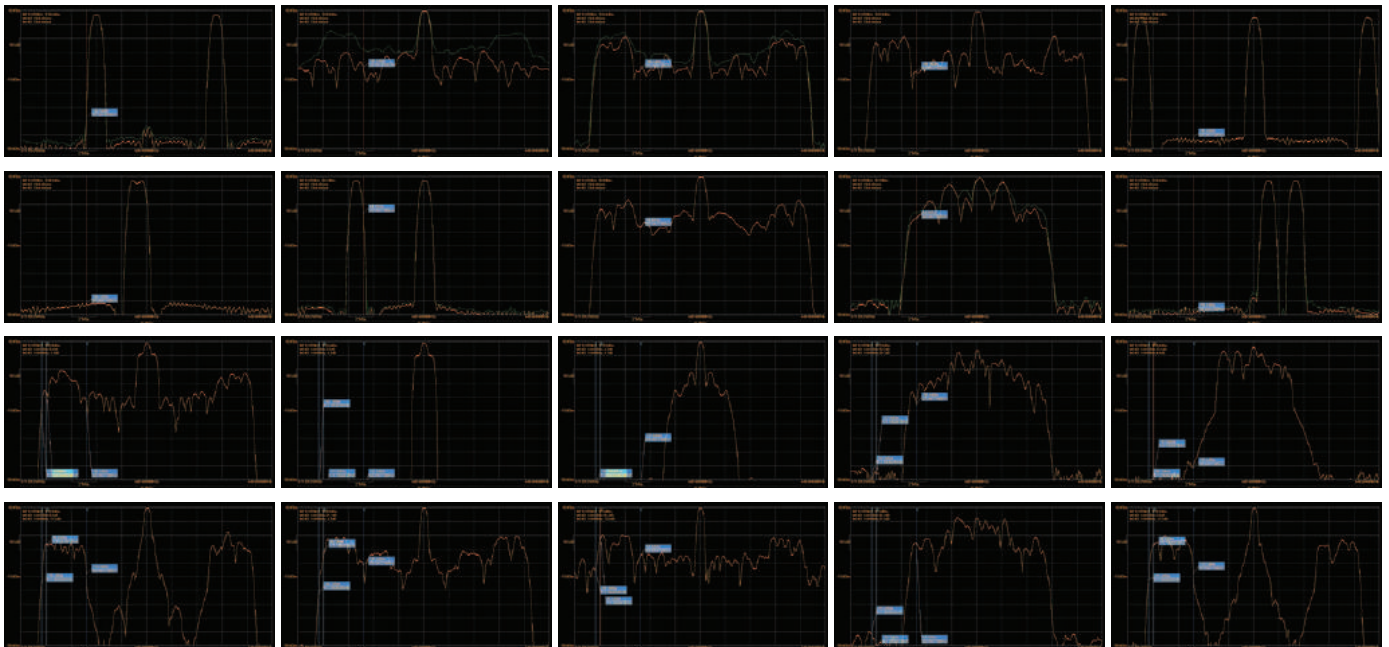
660 HD RADIO Vector Libraries / 660 Spectrum Masks

Lumantek HD Radio Vector Signal Generator contains a full suite of test vectors stored in the ultra-fast SSD. It is a versatile signal source for engineers designing and developing new analog / digital AM or FM HD Radio products.

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

Spurious Responses

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

Environment

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

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	+18 VDC
	Power Consumption	70 Watt
Adaptor spec	AC INPUT	100-240V ~ 3-1.5A, 50-60Hz
	DC OUTPUT	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

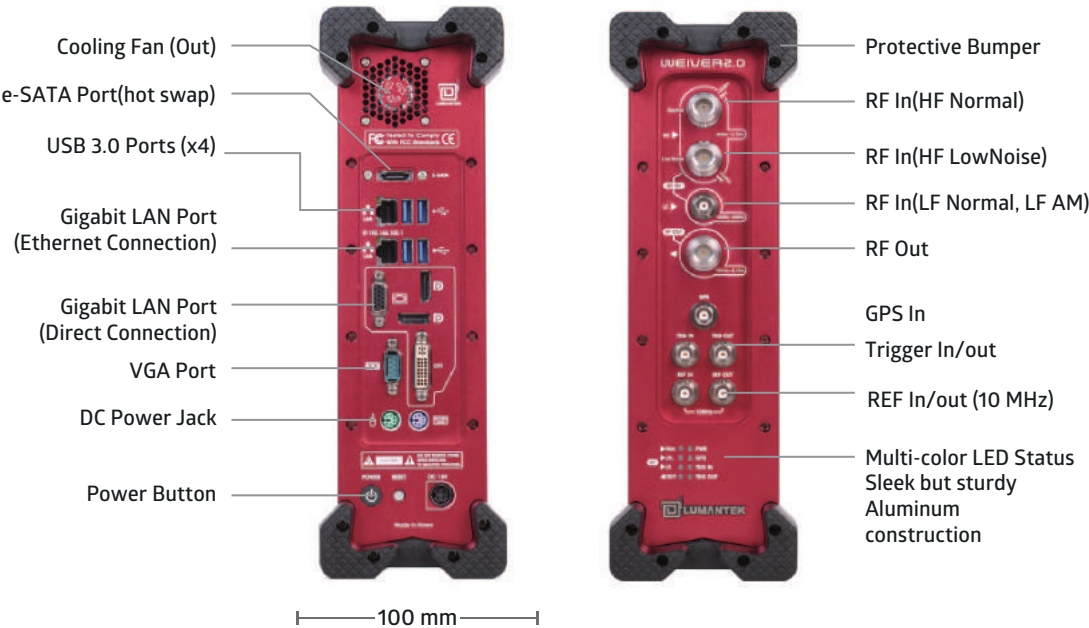
HD Radio Vector Signal Generator Platform 1 - WEIVER 2.0 Player



External SSD



HD Radio Vector Signal Generator Platform 2 - WEIVER 2.0



Side - Rear

Side - Front