

NEIVER RF Capture and Playback System



Overview Key Features Specifications

is Interface

Weiver is a must-have instrument for RF engineers, device manufacturers and terrestrial broadcasters, alike, where field testing is mission critical. Weiver records in real-time and regenerates RF signals covering the bandwidth range of 8M and/or 24M in almost any environment, in the lab or in the real world.

Capture worldwide broadcasting standards of DTV (ATSC, DVB-T/H, DVB-C, DMB, CMMB, DTMB, ISDB-T/B, OpenCable, and ATSC-M/H), ATV (NTSC, PAL), FM Radio, RDS and TMC.

Because Weiver is shipped with both frequencies pre-installed it equates to hassle-free, one-click SDR upgrades without costly downtime due to unnecessary trips to the factory.



Standard, competitive features

Convenience & hassle-free mobility

Versatility & flexibility

- Real-time capture and playback
- Arbitrary waveform generator with I/Q data
- External trigger function
- 1 Hz frequency resolution (capture & playback)
- Highly-stable, internal SSDs with lightning-fast read/write speeds
- Ultra-small footprint & featherweight (5kg)
- Ultra-low power consumption (50 W) for in-car deployment
- Secure Ad Hoc (WiFi) wireless connectivity
- e SATA connectivity for external SSD (opt.) for real- time capture & playback / back-up
- Export signal data for reporting and documentation
- Built-in A-GPS module with data compatible with third-party mapping services

Upgradeability

 Instant, one-click programmable bandwidth upgrades without costly downtime and unnecessary trips to the factory



- Attractive sales point
- Value for money features
- Low TCO
- Rapid, global technical & warranty services

Capture Mode

 Frequency Frequency band Real-time bandwidth Frequency resolution Resolution bandwidth 8M: 9.76KHz, 4.88KHz, 2.44KHz, 1.3 24M: 29.29KHz, 14.64KHz, 7.32KHz 1.83KHz 	z, 3.66KHz,	RF In 50ohm, N-type, DC-coupled IF Band Resolution Sampling rate Frequency Storage	16-bit 60 MS/s 75MHz
 Temperature stability Initial achievable accuracy Aging (annually) SpectralPurity Phase Noise @1KHz offset, 1GHz Phase Noise @10KHz offset, 1GHz Phase Noise @100KHz offset, 1GHz Phase Noise @100KHz offset, 1GHz < https://www.newsitescommons.pdf 	•	 Internal (def.) Storage time BW8M BW24M External (opt.) Calibration 1 year Environment 	256 GB SSD 100 minutes 30 minutes 256 GB SSD, e-SATA
 Amplitude Input level accuracy Input dynamic range (CW tone) Gain range Input level resolution Max. DC input 	± 1dB -130dBm ~ 0dBm -5dB ~ +45dB 0.01dB ± 50 VDC	 Operating temperature Relative humidity Storage temperature 	0 ~ +50°C 90% -20 ~ +70°C

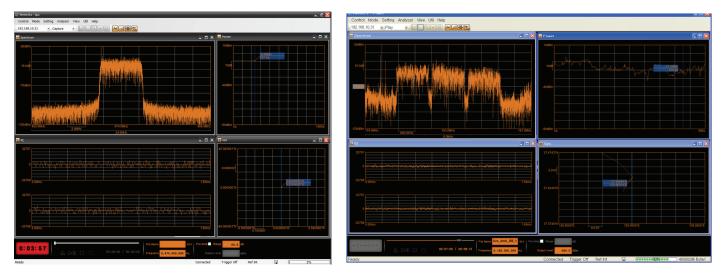
Playback Mode

Frequency

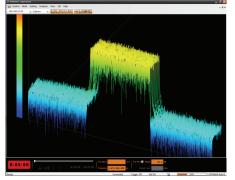
►	Frequency band	50Mhz ~ 1GHz	
►	Real-time bandwidth	8M, 24M	
►	Frequency resolution	1Hz	
►	Temperature stability	± 1PPM	R
•	Initial achievable accuracy	± 2PPM	
►	Aging (annually)	± 1PPM	С
Sp	ectralPurity		
►	Phase Noise @1KHz offset, 1GHz	≤ -90dBc/Hz	
►	Phase Noise @10KHz offset, 1GHz	≤ -95dBc/Hz	С
►	Phase Noise @100KHz offset, 1GHz	≤ -100dBc/Hz	
Sp	urious Responses		E
•	2 nd Harmonic	≤-50dBc	
•	3 rd Harmonic	≤-60dBc	
►	LO Leakage	≤-90dBm	

RF Output Characteristics	
GainRange	-30~ +30dB
Amplitude resolution	0.1dB step
Amplitude accuracy	±1dB
RF Out	
50ohm, N-type, DC-coupled	
Overload Protection on RF Output	
Max. reverse RF power	1 W (max.)
-	· · ·
DC input	±50 VDC (max.)
 DC input Calibration 	±50 VDC (max.)
•	±50 VDC (max.)
Calibration	±50 VDC (max.)
Calibration 1 year 	±50 VDC (max.) 0~+50°C
Calibration 1 year Environment 	

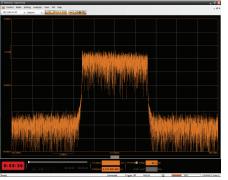
Spectrum Analysis / RF Power / IQ Signal / GPS



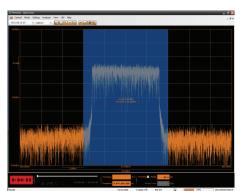
Spectrum Analyzer Detail



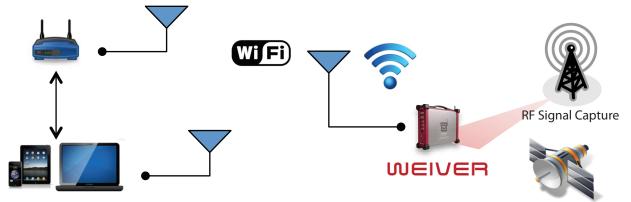
Spectrum 3D



Spectrum 2D



Band Power



A-GPS



Compatibility to third-party mapping services