LUMANTEK®

a t s c
Advanced Television Systems Committee

HD Radio®

DVB S2 DVB T2

DAB+
Digital Audio Broadcasting

WEIVER2.0 Supports
BaiDu Map & Google Map

WEIVER 2.0

RF CAPTURE & PLAYBACK SYSTEM - WEIVER 2.0
Covering frequencies from 100KHz to 2.7GHz max. 56MHz bandwidth recording

FM / AM / RDS / DVB-T/T2 / DVB-S/S2 / DVB-C / DAB / DAB+ / ATSC / ATSC-MDTV / NTSC / CMMB / QAM-B / ATV / HD RADIO / DAB / DAB+ / ISDB-T / DTMB / T-DMB / CDMA / PAL / UMTS / Wifi / WiMax / PMR / GPS /Galileo / Glonass / Bluetooth / LTE

HD RADIO to FM - Hand over Testing System for AUTOMOTIVES up to 4 Units

FM Recording

HD RADIO / DAB Recording

Up to 4 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.

WEIVER2.0 Supports BaiDu Map & Google Map

Frequency
2.7 GHz

Cigar Power
75 W

Weight
7.5 Kg

SPECIFICATION : WEIVER 2.0

Capture Mode

Frequency		
Frequency Band	[HF (High Frequency) HF (High Frequency)_Low Noise] 48MHz ~ 2.7GHz	
	[LF (Low Frequency)] 0.1MHz ~ 48MHz	
Real-time Bandwidth	56 MHz max. (Arbitrary Variable BW, 1Hz step)	
Frequency Resolution	1Hz step	
RBW (Resolution bandwidth)	3 KHz, 5 KHz, 10 KHz, 20 KHz	
Warm-up time	30 minutes (typ.)	
Freq. Stability vs. Temp.	±20 ppb max.	
Aging (per day)	±1 ppb max.	
Aging (per year)	±50 ppb max.	
Spectral Purity		
Phase Noise@1 KHz offset	HF	≤ -95 dBc/Hz (1 GHz) ≤ -90 dBc/Hz (2.7 GHz)
Phase Noise@10 KHz offset	LF	≤ -100 dBc/Hz (30 MHz)
	HF	≤ -100 dBc/Hz (1 GHz) ≤ -95 dBc/Hz (2.7 GHz)
	LF	≤ -105 dBc/Hz (30 MHz)
Noise Figure		
Noise Figure(1GHz)	HF HF_Low Noise LF	< 7 dB (Gain : 45 dB) < 3 dB (Gain 45 dB) < 7 dB (Gain 35 dB)
Amplitude		
Input Dynamic Range (CW tone)	HF HF_Low Noise LF	+10 ~ -135 dBm -30 ~ -139 dBm +10 ~ -120 dBm
Input Level Resolution	0.1dB	
Input Level Accuracy	±1 dB max.	
Gain Range	HF HF_Low Noise LF	-15 ~ +50 dB (1 dB step) +25 ~ +50 dB (1 dB step) -20 ~ +35 dB (1 dB step)
IF Band		
ADC Resolution	16-Bit	
Sampling Rate	140 MS/s	
IF Frequency	150 MHz	
Storage		
Storage (default)	2 TB SSD	
Storage Time (BW 24 MHz)	120 minutes	
Storage Time (BW 48 MHz)	60 minutes	
Calibration	1 Year	
Operating Temperature	0 ~ +50℃	
Relative Humidity	90%	
Storage Temperature	-20 ~ +70℃	
RF Input Port		
RF Input Port (DC-coupled)	HF HF_Low Noise LF	50ohm, N type female 50ohm, N type female 50ohm, BNC type female
Max. DC Input	±25 VDC max.	

Play Mode

Frequency	
Frequency Band	0.1 ~ 2700 MHz
Real-time Bandwidth	56MHz max. (Arbitrary variable BW, 1Hz step)
Frequency Resolution	1Hz step
Warm-up time	30 minutes (typ.)
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	≤-100 dBc/Hz (30 MHz) ≤ -95 dBc/Hz (1 GHz) ≤ -90 dBc/Hz (2.7 GHz)
Phase Noise@10 KHz offset	≤ -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
RF Output Characteristics	
Gain Range	-30 ~ +30dB (Input level basis)
Amplitude Resolution	0.1dB step (Min.)
Amplitude Accuracy	±1dB
Power	+3 dBm max.(48 ~ 2700 MHz) +10 dBm max.(0.1 ~ 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.)
Environments	
Operating Temperature	0 ~ +50 ℃
Relative Humidity	90%
Storage Temperature	-20 ~ +70℃
Physical Features	
Dimensions	406mm(W) x 305mm(H) x 100mm(D)
Weight	7.5 Kg
Power Consumption	75 W (max.)