



HD Radio®

DVB S2 DVB T2

DAB+  
Digital Audio Broadcasting

# WEIVER 2.0

RF CAPTURE & PLAYBACK SYSTEM - WEIVER 2.0

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



1Hz step bandwidth record  
Up to 56MHz(max)

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

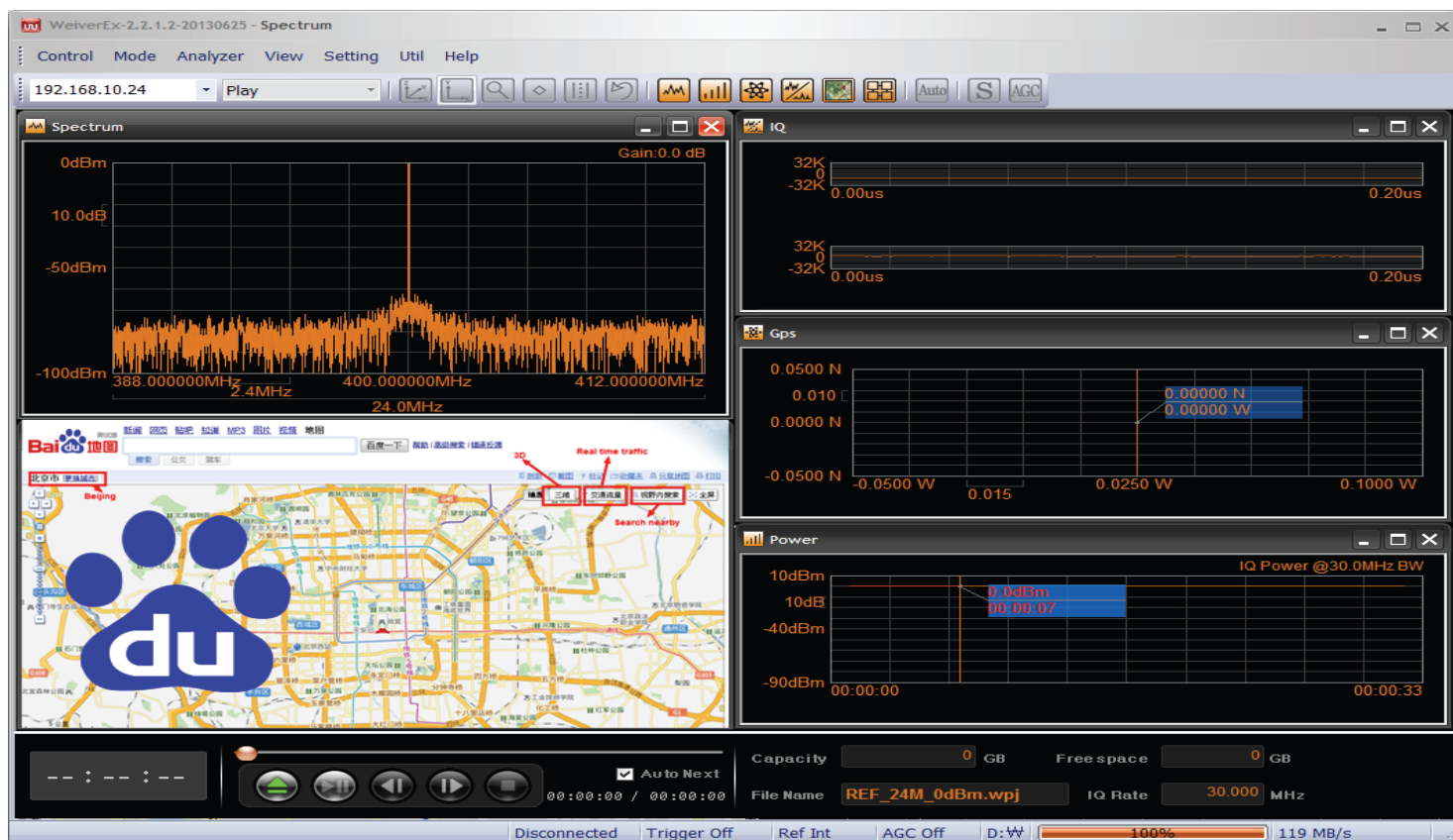
HD RADIO /  
DAB Recording



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)<br>HF (High Frequency)_Low Noise]<br>48MHz ~ 2.7GHz<br>[LF (Low Frequency)] 0.1MHz ~ 48MHz |
| Real-time Bandwidth           | 56 MHz max.<br>(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)<br>≤ -90 dBc/Hz (2.7 GHz)                                                               |
| Phase Noise@10 KHz offset     | LF ≤ -100 dBc/Hz (30 MHz)<br>HF ≤ -100 dBc/Hz (1 GHz)<br>≤ -95 dBc/Hz (2.7 GHz)<br>LF ≤ -105 dBc/Hz (30 MHz)    |
| Noise Figure                  |                                                                                                                 |
| Noise Figure(1GHz)            | HF < 7 dB (Gain : 45 dB)<br>HF_Low Noise < 3 dB (Gain 45 dB)<br>LF < 7 dB (Gain 35 dB)                          |
| Amplitude                     |                                                                                                                 |
| Input Dynamic Range (CW tone) | HF +10 ~ -135 dBm<br>HF_Low Noise -30 ~ -139 dBm<br>LF +10 ~ -120 dBm                                           |
| Input Level Resolution        | 0.1dB                                                                                                           |
| Input Level Accuracy          | ±1 dB max.                                                                                                      |
| Gain Range                    | HF -15 ~ +50 dB (1 dB step)<br>HF_Low Noise +25 ~ +50 dB (1 dB step)<br>LF -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 50ohm, N type female<br>HF_Low Noise 50ohm, N type female<br>LF 50ohm, BNC type female                       |
| Max. DC Input                 | ±25 VDC max.                                                                                                    |

##### Play Mode

| Frequency                 |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| Frequency Band            | 0.1 ~ 2700 MHz                                                            |
| Real-time Bandwidth       | 56MHz max.<br>(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)<br>≤ -95 dBc/Hz (1 GHz)<br>≤ -90 dBc/Hz (2.7 GHz)  |
| Phase Noise@10 KHz offset | ≤ -105 dBc/Hz (30 MHz)<br>≤ -100 dBc/Hz (1 GHz)<br>≤ -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)<br>+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.)                                                               |

