

MODEL MP7601

Key Features

- Ultra-high frequency coverage from 300 KHz to 6.0 GHz
- Pre-trigger function to keep your valuable record data even before the trigger event
- 100 MHz super wide bandwidth capable of simultaneously record/playback of 16 NTSC TV channels
- MP7601 can have a maximum of 7 sets, synchronized in parallel, RF record/playback
- 16-bit high resolution of the ADC/DAC
- Smart AGC to extend usable dynamic range to greater than 150 dB
- High linearity to accommodate strong & weak signals
- Additional traces for maximum/minimum holds
- 20+ markers for easy signal identification
- Baseband IQ data formats compatible to MATLAB
- Software utility support including I/Q data extractor and file segmentation
- 2.5 inches SSD x4 internal drive bays (4 X 1 TB by default, 2 TB x4 upgradable)
- 1PPS, IRIG-B support (Optional)

Application

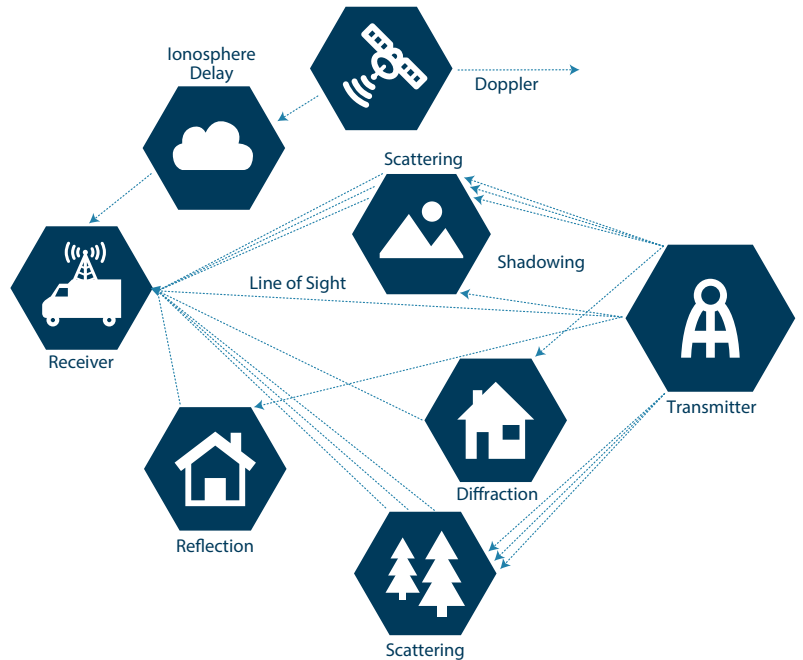
- Wireless communication
- Broadcasting
- Navigation
- Telemetry

6 GHz RF RECORDER & PLAYER



Test your product with the Real-World signals:

- Eventually your Receiver has to receive the real-world signal, yet,...
- None of the existing signal generators can 100% emulate the real world signals.
- Only the RF recorder/player can bring back repeatable real world RF signals to your lab.

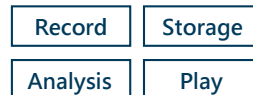


When will you need a RF recorder ?

- Your DTV/DAB/GPS receiver chip can't decode properly in certain location.
- Your receiver works fine in some locations, however doesn't in some other locations.
- Virtual signal source, can be any signal generator. While you can change the playback frequency & level.



Instrument



R & D Lab



Live Signal



MP7601



Production Line



Encryption



Signal Analysis



Matlab Analysis



Center Signal Source

ADIVIC
— RF TEST & MEASUREMENT —

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MP7601

6 GHz RF RECORDER & PLAYER

Specifications

Model	RF Recorder/player
Frequency	300 KHz - 6 GHz
Frequency Extend option	
Bandwidth	100 MHz
Sample Rate	250 MS/s
Resolution	16 bit
Recorder Channel	1
Playback Channel	1
Diversity	Maximum 7 CH in parallel
Trigger	Yes (Pre-trigger)
10MHz In/Out	Yes
SWAP SSD	2.5" SSD 1 TB x 4
IRIG-B	Yes
Loophrough	Yes
Power	AC 115 ~ 230 V
Size L x W x H cm	41.6 x 34.7 x 12
Weight	10 kg

Function

Loop Through Function

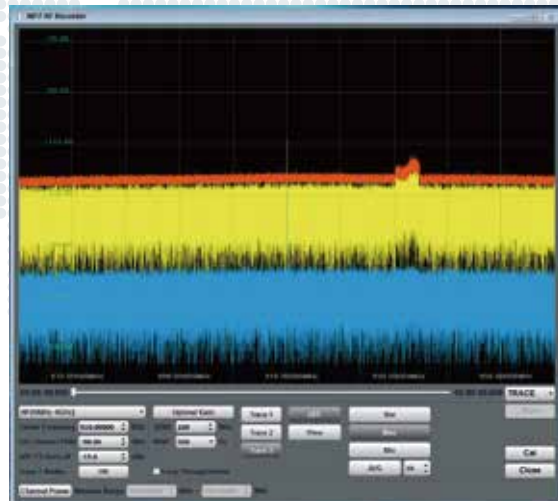
To inspect RF signal before and while recording

Pre-trigger

A buffer memory is allocated to store the recording before trigger event.

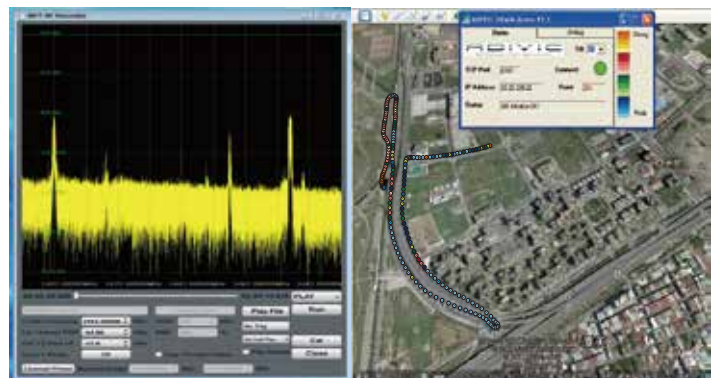
Max & Min Hold

To inspect RF signal dynamic range



GPS

To record the RF signal position with G-mouse



700 MHz Wideband Recording

Allow the simultaneous recording and playback of 700 MHz bandwidth.

Wideband : 100 MHz X 7 Diversity : Antenna X 7

