**RF-CATCHER PLATFORM**

*The Most Compact RF Capture & Playback device!*

**COVERING A FREQUENCY RANGE FROM 70 MHz UP TO 6 GHz, RF-CATCHER CAN RECORD AND PLAY REAL-TIME RF BANDWIDTH UP TO 55 MHz.**

RF-Catcher allows experimentation of a wide range of signals including Radio (FM, DAB...), TV broadcast (DVB-T/T2, C/C2, ISDB-T, etc...), cellular, Wi-Fi, up to satellite signals (DVB-S/S2).

The RF-Catcher is equipped with LNB control for frequency down conversion of Ku/C bands. The integrated GNSS receiver provides precise location information; KML file, metadata, NMEA compatible.

The RF-Catcher is compact, robust, lightweight (600g) and cost-effective: your technicians and engineers can bring it everywhere in their hand bag.

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**APPLICATIONS**

- Chipset, STB/TV field test debugging (a great tool to support your pre-sales team)
- Easy & simple usage: no need for RF experts to capture field RF signals (ex: DAB/FM, TV broadcast, Satellite broadcast, Wi-Fi,...). your sales force can do it for you anywhere in the world
- Handy demonstration setup: bring real RF sources into your laptop
- RF sources stored on a PC: easy to duplicate/transfer between head-quarter and regional sites
- Radio/TV Broadcast/Telecom RF troubleshooting
- **Test automation** (command line tools)
- Telecommunications Regulation Agencies validation tool

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**Easy to use & Responsive GUI**

*High degree of parameterization for measures*

![RF-Catcher GUI](image)

- **RF Capture & Playback controls**
- **Variable acquisition bandwidth**: FROM 1 up to 55 MHz
- **Gain setting for capture**
- **Attenuation setting for playback**
- **Sample rate up to 61.44 Msps**
- **Rolling Buffer mode for RF capture**
- **LNB configuration for Satellite capture**
- **Auto-test control**: evaluate the PC performance for RF capture/playback max bandwidth
- **AGC (Automatic Gain Control) for RF reception**
- **RF capture file stored on PC**: 170 min of 12 Msps bandwidth record ~ 512GB NONPROPRIETARY IQ FILE FORMAT
- **FFT resolution bandwidth**: 30 Hz (for 2 MHz) to 210 kHz (for 55 MHz)
- **WATERFALL SECTION**: Allows detection of bursts & transients (Wi-Fi, 4G,...)
- **Frequency setting for capture (Rx) / playback (Tx)** range 70 MHz to 6 GHz 1kHz resolution
- **Status indicators**
  - USB: connection (USB2 or USB3)
  - IQ sample loss
  - IBS: in band saturation (ADC)
  - OOBS: out of band saturation (LNA)
- **IQ max power**
- **IQ average power**

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www.test-tree.com
### RX MODE

**Frequency**
- Frequency band: 70 MHz to 6.0 GHz
- Frequency resolution: 1 kHz
- Real-time bandwidth: 1 MHz to 55 MHz
- RBW (Resolution bandwidth): 30 Hz (for 2 MHz) to 210 kHz (for 55 MHz)

**Noise Figure**
- Phase Noise at 10 kHz:
  - 1200 MHz: -91.3 dBc/Hz
  - 3200 MHz: -85.2 dBc/Hz
  - 5000 MHz: -82 dBc/Hz

**Noise Floor / Sensitivity**
- -110 dBm

**IF Band**
- ADC resolution: 12-bit
- Sampling rate: 61.44 Msps max

**RF Input Characteristics**
- Input Dynamic Range: -110 to 0 dBm
- Max Peak power*: 0 dBm
- Max DC input*: ± 15 V

**Gain Range (1dB step)**
- 800 MHz: 0 to 74 dB
- 2300 MHz: 0 to 73 dB
- 5500 MHz: 0 to 65 dB

**IIP3**
- 1200 MHz: 7.2 dBm
- 3200 MHz: 8.4 dBm
- 5000 MHz: 15.2 dBm

**Storage**
- 512 GB @ 12 Msps: 170 min
- 512 GB @ 24 Msps: 85 min
- 512 GB @ 40 Msps: 50 min

### TX MODE

**Frequency**
- Frequency band: 70 MHz to 6.0 GHz
- Frequency resolution: 1 kHz
- Real-time bandwidth: 1 MHz to 55 MHz

**Phase Noise at 10 kHz**
- 1200 MHz: -91.3 dBc/Hz
- 3200 MHz: -85.2 dBc/Hz
- 5000 MHz: -82 dBc/Hz

**RF Output Characteristics**
- Attenuation range: 0 to 89 dB
- Amplitude resolution: 0.01 dB
- Power output: 5 dBm max
- Max DC output: ± 15 V

### TECHNICAL CHARACTERISTICS

**2x RF inputs, 2x RF outputs** for RF Capture & Playback (SMA/F connectors)*

**Frequency range** from 70 MHz to 6 GHz, resolution 1 kHz

**Variable bandwidth** from 1 up to 55 MHz

**Automatic filtering** for harmonic suppression for playback, out of band signal suppression for capture

**RF reception**
- Status indicators: USB connection / IQ sample loss / In band saturation (ADC) / Out of band saturation (LNA)
- FFT display: Spectrum measurements: FFT resolution, FFT markers insertion / Averaging functions: RMS, min/max hold / FFT window functions: rectangular, Hamming, Blackman, Hann...
- Signal waterfall plot (three-dimensional spectra)
- Power in band measurement

**Trigger mode** for synchronized capture/playback between several devices

**RF capture**: variable gain, automatic gain setting (AGC), rolling buffer mode

**RF playback**: variable attenuation

**Lightweight and compact** 163 x 115 x 32 mm, 600 g, 3 W typical power consumption

**Connected to PC via USB3.0 connectivity** (SuperSpeed) (USB2 backward compatible, but with lower performances due to limited USB2 bitrate)

**IQ files** stored on the PC: 12 Msps sample rate, 170 min of record = 512GB

**Nonproprietary IQ file format** compatible by Matlab software

**Integrated GNSS (GPS, Glonass) receiver: KML file, metadata, NMEA protocol**

**Compatible MS Windows 7/8/8.1/10 (x64 versions only)**

*Both input/output connectors cannot be used at the same time

### ORDERING CODE

**RF-Catcher Platform**

**RF Capture & Playback**

Shipped bundled with HW device and software application for MS Windows 7/8/8.1/10 (x64)

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