



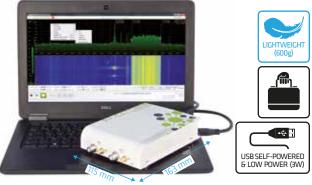
SKY-RF-CATCHER PLATFORM

The Most Compact RF Capture & Playback device!

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

SKY-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 SKY-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.



Easy to use $\ensuremath{\mathbb{E}}$ Responsive GUI



High degree of parameterization for measures

APPLICATIONS

- \bullet 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

RX MODE

Frequency Frequency band Frequency resolution Real-time bandwidth RBW (Resolution bandwidth)	70 MHz to 6.0 GHz 1 kHz 1 MHz to 55 MHz 30 Hz (for 2 MHz) to 210 kHz (for 55 MHz)
Noise Figure Phase Noise at 10 kHz 1200 MHz 3200 MHz 5000 MHz Noise Floor / Sensitivity	< 8 dB -91.3 dBc/Hz -85.2 dBc/Hz -82 dBc/Hz -110 dBm
IF Band ADC resolution Sampling rate	12-bit 61.44 Msps max
RF Input Characteristics Input Dynamic Range Input Level Resolution Max Peak power* Max DC input* *Absolute maximum ratings	-110 to 0 dBm 1 dB 0 dBm ± 15 V
Gain Range (1dB step) 800 MHz 2300 MHz 5500 MHz	0 to 74 dB 0 to 73 dB 0 to 65 dB
IIP3 1200 MHz 3200 MHz 5000 MHz	7.2 dBm 8.4 dBm 15.2 dBm
Storage 512 GB @ 12 Msps 512 GB @ 24 Msps 512 GB @ 40 Msps	170 min 85 min 50 min

TX MODE

Frequency band70 MHz to 6.0 GHzFrequency resolution1 kHzReal-time bandwidth1 MHz to 55 MHz
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-91.3 dBc/Hz
-85.2 dBc/Hz
-82 dBc/Hz

RF Output Characteristics

IB
ax





TECHNICAL CHARACTERISTICS

2x RF inputs, 2>	k RF outputs for RF Capture & Playback (SMA/F connectors)*
Frequency range	e from 70 MHz up to 6 GHz , resolution 1kHz
Variable bandwi	dth from 1 up to 55 MHz
Automatic filter	ing: harmonic suppression for playback, out of band signal suppression for capture
 FFT display: Sp Averaging fund Hamming, Blad 	ectrum measurements: FFT resolution, FFT markers insertion / ctions: RMS, min/max hold / FFT window functions: rectangular, ckman, Hann II plot (three-dimensional spectra)
Trigger mode fo	r synchronized capture/playback between several devices
RF capture: varia	able gain, automatic gain setting (AGC), rolling buffer mode
RF playback: var	iable attenuation
Lightweight and	d compact 163 x 115 x 32 mm, 600 g, 3 W typical power consumption
	via USB3.0 connectivity (SuperSpeed) (USB2 backward compatible, but with lower ue to limited USB2 bitrate)
IQ files stored or	n the PC: 12 Msps sample rate, 170 min of record = 512GB
Nonproprietary	IQ file format, compatible by Matlab software
Integrated GNSS	6 (GPS, Glonass) receiver: KML file, metadata, NMEA protocol

PHYSICAL

Dimensions Weight Power supply Auxiliary power 163 x 115 x 27 mm 6.4 x 4.5 x 1.2 in 600 g USB self-powered USB connector (additional power supply for satellite captures using LNB controller) ЗW

-20°C to +55°C

-20°C to +70°C

1x SMA-type female - 50 Ω 1x F-type female - 75 Ω (up to 2 GHz) 1x SMA-type female - 50 Ω 1x F-type female – 75 Ω (up to 2 GHz) 1x SMA-type female – 50 Ω 1PPS/Trigger input 1x SMA-type female - 50 Ω 1x SMA-type female - 50 Ω 1x SMA-type female - 50 Ω 1x USB3 B-Type 1x USB3 B-Type

e time

ENVIRONMENT

Power consumption

Operating temperature Storage temperature

PC MINIMUM REQUIREMENTS

RF input

RF output

10MHz

GPS

Trigger output

Power & Data

Auxiliary power

Core i5/i7 processor 4 GB of RAM

USB 3.0 connectors SSD for storage (Solid State Drive)

ORDERING CODE

SKY-RF-Catcher

RF Capture & Playback