

INDUSTRIAL PRODUCT DATASHEET

RF Explorer®Pro - Touch Screen Spectrum Analyzer

The RF Explorer®Pro combines spectrum analysis, power measurement, signal tracking, and Wi-Fi detection in a single instrument for rapid RF diagnostics and optimization.

SKU	UPDATED	PRICE
114993046	2026-07-30 08:33:53	\$995.00(Excl. VAT)



Overview

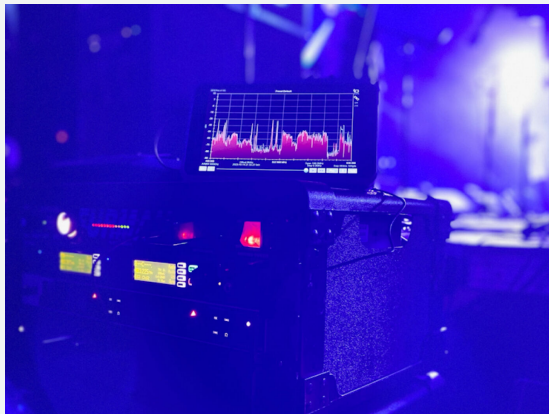


The RF Explorer®Pro is a highly-integrated touch screen spectrum analyzer that provides precise sweep spectrum analysis from 15MHz to 7.5GHz, power meter detection from 10MHz to 8GHz in 100uS, and a signal tracking generator from 24MHz to 6GHz. It supports multimedia, telecommunications, IoT, RF engineering, and security applications with advanced Wi-Fi analysis on 2.4/5.8GHz bands and GPS-assisted heatmap coverage mapping.

Key Features

- **Highly-integrated instrument for enhanced RF analysis and optimization:**
 - **Spectrum Analyzer** for 15MHz to 7.5GHz precise sweep spectrum analyzer scans with multiple advanced modes(Zero Span, Waterfall 2D and 3D, etc)
 - **Power Meter** for resolving 10MHz ~ 8GHz band detection events in just 100uS with the continuous model
 - **Signal Tracking Generator** for rapid diagnostics and characterization of cables, filters, and amplifiers with the ranger of 24MHz to 6GHz
- **Advanced touch all-screen display:** Offer 1280x800 pixels and 16.7M color, with 250 cd/m2 luminance and 800:1 contrast ratio
- **Heatmap Coverage Map:** Utilize the external GPS assistance and internal manual operation to measure signal strength on the go, creating a heatmap of coverage areas.
- **Wi-Fi Analyzer:** Detect signals across the 2.4/5.8GHz band, accurately identifying WiFi interference, collisions, and noise in any environment.
- **Multiple Peripherals:** 1x USB3.0, 1x Audio Jack, 1x Micro HDMI port, 1x Micro SD card slot, 1x Ethernet with USB adapter, 1x **Internal Battery for easy porting**

Product Gallery





Specification

Parameter	Value Range
Frequency range	15MHz to 3.3GHz (baseline) 15MHz to 6GHz (license 6G) 15MHz to 7.5GHz (license 7G)
Frequency Span	0 (zero span) 500KHz to 6GHz (sweep)
RBW	3Khz – 2.5MHz <i>Future firmware upgrade will enable 100Hz – 2.5MHz</i>

VBW	Automatic
Low Frequency Support	100KHz – 240MHz <i>with external RF Explorer Upconverter module</i>
Frequency resolution	1KHz <i>Future firmware upgrade will enable 100Hz</i>
Sweep Time	3GHz / 280ms <i>With RBW 2.5MHz</i>
Sweep Points	512-65,000
Frequency stability (typical)	TCXO ± 0.5 ppm
Amplitude stability and accuracy (typical)	± 1.5 dB
Factory Calibration	3K reference points
Dynamic range (Depending on RBW and Band)	Direct: -110dBm to +10dBm Preamplifier LNA: -130dBm to -30dBm Attenuator: -80dBm to +33dBm
Absolute Max input power	+33dBm internal Attenuator selected
Display Average Noise Level	-130dBm <i>typical LNA</i>
Noise Floor	-160dBm/Hz <i>typical LNA</i>
WiFi Analyzer	2.4Ghz / 5.8GHz
Save/Replay	100,000 Sweeps on Memory Unlimited Sweeps on File
File Export	Compatible CSV and Binary formats <i>Suitable for WSM/WWB6/Excel/Matlab</i>

Parameter	Value Range
Frequency range	10MHz to 8GHz
Dynamic range (Depending on RBW and Band)	Direct: -60dBm to +10dBm Preamplifier LNA: -130dBm to -30dBm Attenuator: -80dBm to -10dBm
Operational Modes	Continuous Trigger
Event Detection	100uS
Samples	2-1024 Trigger Samples 100,000 Captures on Memory

Parameter	Value Range
Frequency range	24MHz to 6GHz
Output power range (nominal)	-40dBm to -30dBm in 3dB steps -10dBm to 0dBm in 3dB steps
Operational Modes	CW Frequency Sweep Amplitude Sweep Tracking SNA
Sweep hops range	unlimited
Tracking Speed	>500pts/sec

Parameter	Value Range
Remote Display	VNC Compatible
Video Output	Micro HDMI port
USB	Type A USB 3.0
Network	Ethernet with USB adapter <i>Adapter Not Included</i>

Audio	Internal Speaker Audio Jack 3.5mm
Micro SD card	Up to 64GB <i>SD Card Not Included</i>
Operating temperature	5-35C
Operating humidity	Max 90%
Connector type	SMA 50 ohms
Display Technology	Anti-glare 8" IPS TFT Capacitive Touchscreen
Display Resolution	1280x800 pixels 16.7M color
Weight	570 g
Size	215x140x25mm
Charge	USB-C 5VDC 2A <i>Charger Not Included</i>
Charge Time	3hs
Internal Battery	Lithium Ion 4500mAh
Battery Lifetime	3.5 – 5hs <i>Depending on operational mode</i>
Holder	Back Removable Holder
Tripod Support	Compatible with standard 1/4-20 Camera tripod
Certification	CE/FCC/RoHS/MSDS

Applications

- **Multimedia and Wireless Audio**
- **Telecommunications and communications**
- **Wireless network deployment and optimization**
- **IoT**
- **RF engineering and testing**
- **Wi-Fi network analysis**
- **Broadcast and entertainment**
- **RF security and surveillance**

Part List

RF Explorer Pro Main Equipment	x1
Rubber Duck UHF 400-900MHz SMA Articulated Antenna	x1
Black UHF 900-6000MHz SMA Articulated Antenna	x1
Type-C USB Cable	x1
Removable Back Holder	x1

Compliance & Logistics



HSCODE	9030401000
USHSCODE	9030400000
UPC	
EUHSCODE	9030900000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/RF-Explorer-Pro-p-5736.html>
- [RF EXPLORER Pro Flyer](#)
- [Datasheet](#)
- [User Manual](#)

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