HEXYLON GAMMA

The first mobile network analyzer built for fieldwork, combining active and passive measurements in one lightweight, portable device

GSERTEL

HEXYLON
GAMMA
Map
Speed Test
Measurements
5G
Vodafone (SA)
RSSI
SS-RSRP
SS-RSRQ
SS-SINR

HEXYLON **GAMMA**

With support for **multiple SIMs**, a **swappable battery** for extended use, and an **intuitive touchscreen interface** with gesture controls, Hexylon Gamma is designed for ease and efficiency. Its versatile **Drive Test and Walk Test capabilities** allow seamless testing across various environments, while **advanced data analysis and automatic report generation streamline workflows**, ensuring precision and speed in every operation.

All measurements in a single device

▶ All mobile technologies

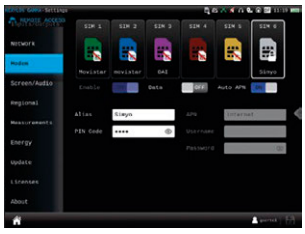
5G/NR

4G/LTE

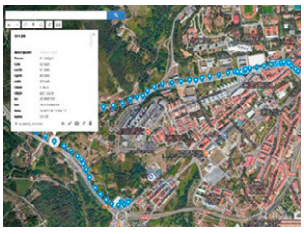
3G/UMTS

2G/GSM

▶ Maximum flexibility



Up to 6 SIMs for active measurements with operator registration, and an antenna for SIM-less passive measurements. The most comprehensive and precise mobile network analysis.



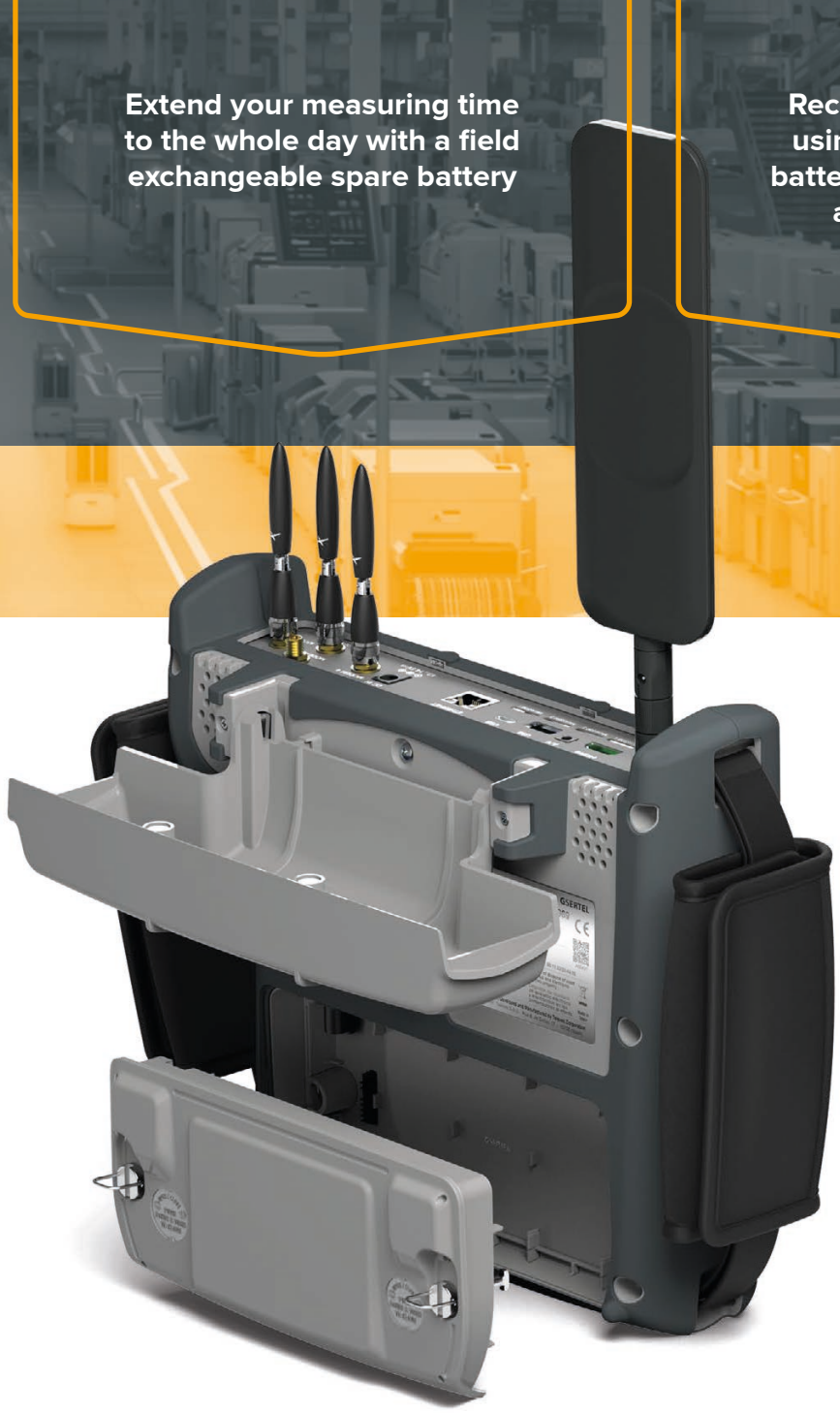
Powerful Drive Test and Walk Test functions to easily adapt to all possible scenarios, both outdoor and indoor.

Always on

▶ Field Exchangeable Spare Battery

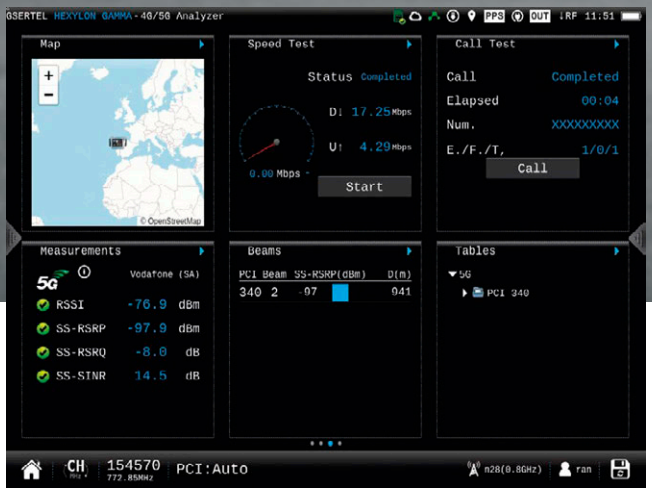
Extend your measuring time to the whole day with a field exchangeable spare battery

Recharge your battery while using the Hexylon GAMMA: batteries can be charged apart and continue working



The most comprehensive mobile network analyzer. The easiest-to-use user interface.

Active and passive Measurements



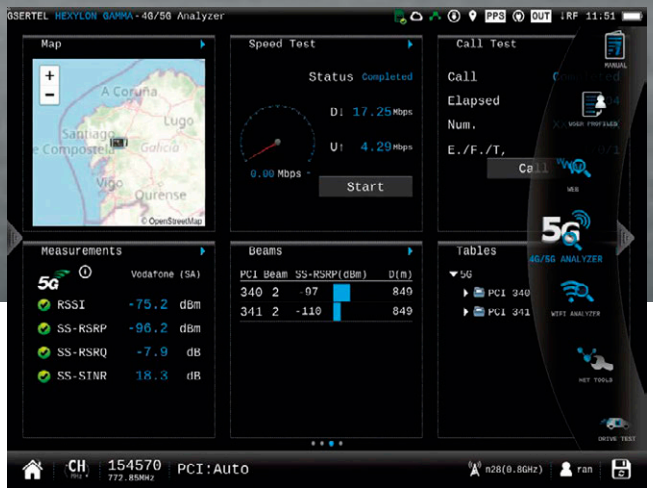
- ACTIVE AND PASSIVE MEASUREMENTS IN A SINGLE PORTABLE AND LIGHTWEIGHT METER
- UP TO 6 SIM CARDS FOR CALL QUALITY CHECKS, SPEED TESTS, AND LATENCY MEASUREMENTS
- PASSIVE MEASUREMENTS WITHOUT THE NEED FOR A SIM CARD FOR SPECTRUM ANALYSIS, COVERAGE, BEAMS, AND OTHER NETWORK ANALYSES
- NO NEED FOR ADDITIONAL MOBILE DEVICES OR HEAVY EQUIPMENT

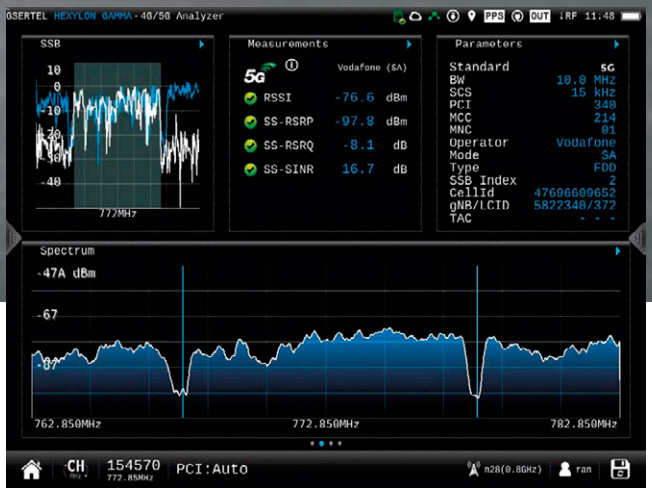
Thanks to the revolutionary interface and the advanced functionalities, the **analysis and diagnosis times are greatly reduced.**

Hexylon GAMMA establishes a new concept **of usability in measurement instrumentation**, where the content becomes the interface, and everything flows intuitively through naturalness in the gestural commands.

With a **real multitouch navigation on high resolution 8" screen**, elements react to the user actions the way he expects, offering greater usability. Measurement tools have never been used in such a simple way.

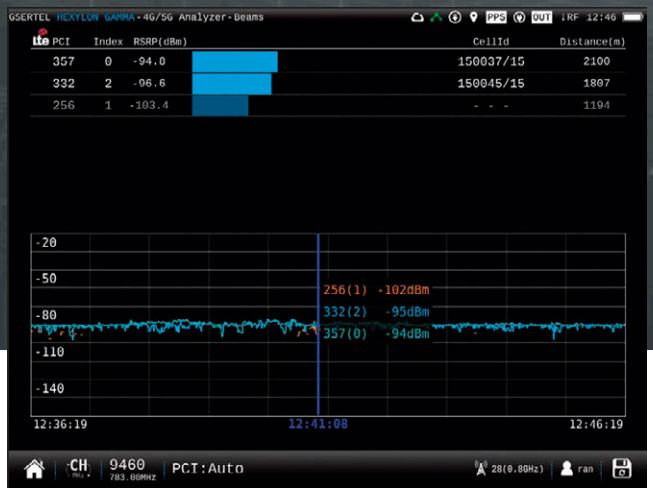
User Defined Widgets





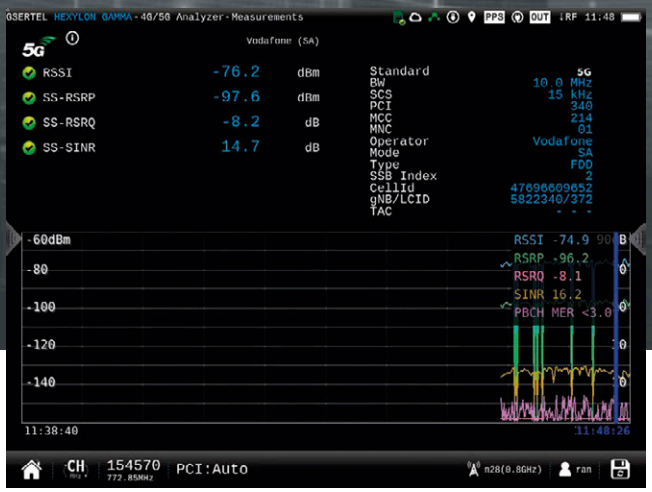
- UP TO SIX USER SELECTED SIMULTANEOUS WIDGETS IN ONE SCREEN
- ALL THE INFORMATION OF THE SELECTED CHANNEL AT A GLANCE
- REVOLUTIONARY USER EXPERIENCE
- DOUBLE TAP ON THE WIDGET IN ORDER TO GET THE FULL SCREEN VIEW
- NO COMPLEX MENUS
- ALL THE FUNCTIONS AVAILABLE ON THE SAME WHEEL
- MULTIPLE DESKTOP WITH SIMULTANEOUS WORK ENVIRONMENT
- CUSTOMIZATION: DEFINE YOUR OWN DESKTOP EASILY BY TAPPING ON THE TOP BAR OF THE SCREEN

Passive Analysis



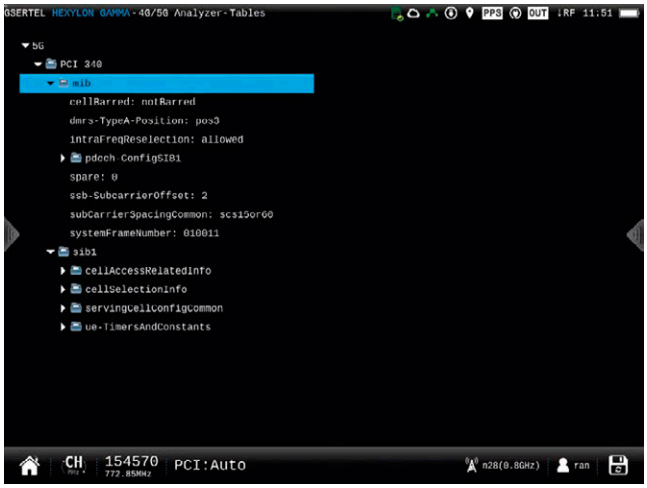
▶ Beams Analysis

Time analysis of every beam using the internal GPS signal reference to identify synchronization issues at the base station. This feature shows the list of beams received, with the following information: PCI, Beam, RSRP, Delay/Distance.



▶ Measurements

Effectively detect issues in RSRP and SINR quality parameters in the SSB that may underlie poor subscriber QoE. All current measurements of the selected channel and their evolution over time.



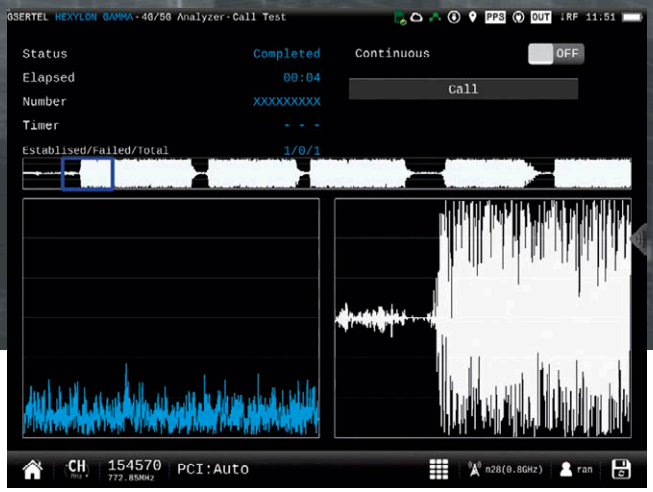
▶ Tables

All the channel information in tree view format.

▶ Parameters

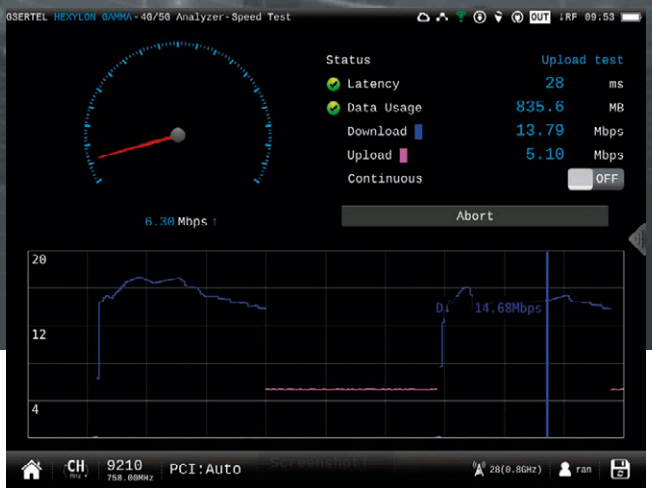
Easily verify that all channel parameters are correct.

Active Analysis



Call Test

Easily perform call tests to validate network performance, Including call failure and call duration statistics.



Speed Test

Effectively verify upload and download speeds, as well as network latency. View current measurements and access historical data over a defined time interval.

Active & Passive

In active mode, the analyzer automatically collects passive measurements to complement the active ones, while also enabling call and speed tests without any additional accessories.

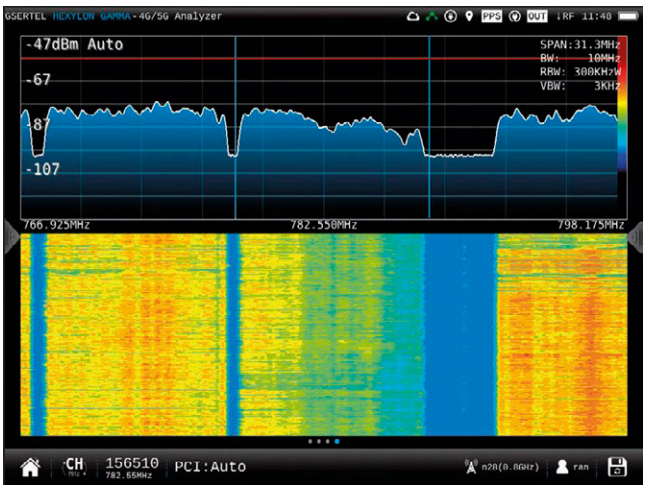
Spectrum Analyzer

▶ Trigger by level

Fast, Accurate and with advanced functions. With a sweeping time <10ms, and multiple RBW and VBW filters, joined to advanced functions, as multiple marks, max. And min. Hold, and trigger by level, the Hexylon Gamma allows a deep analysis of any signal.

▶ RF Recording

Catch any signal and save it for further and deeper analysis



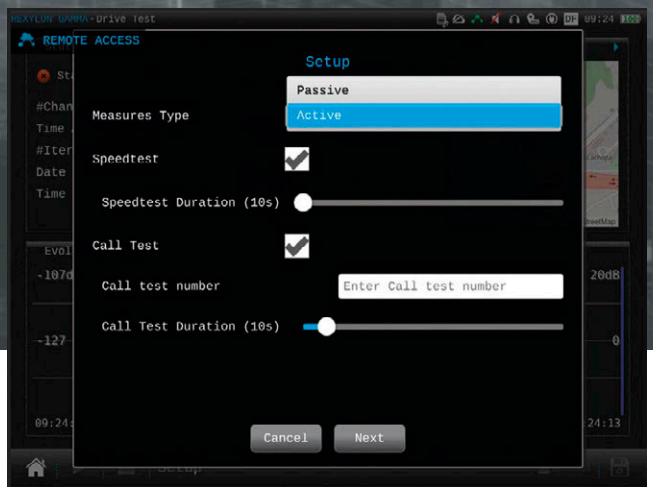
▶ Persistent Spectrum

Identifies interferences and other transient events that go unnoticed in conventional spectral analysis.

▶ Waterfall

The waterfall diagram is a three-dimensional representation of the signal spectrum, in frequency and time. Signal levels are converted to colors and displayed along a time axis, enabling the detection of the spurious interferences.

Drive and Walk Test

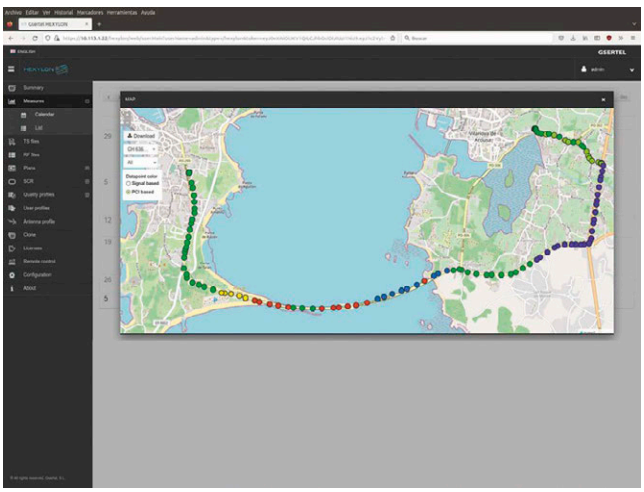


▶ Drive Test

The most versatile and comprehensive Drive Test and Walk Test functions on the market. Hexylon Gamma features an internal GPS, enabling measurements to be initiated by time interval or distance, saving multi-channel data, and simultaneously detecting PCIs.

▶ SIMs

Up to 6 SIMs for performing active measurements with different operators, all using a single device.



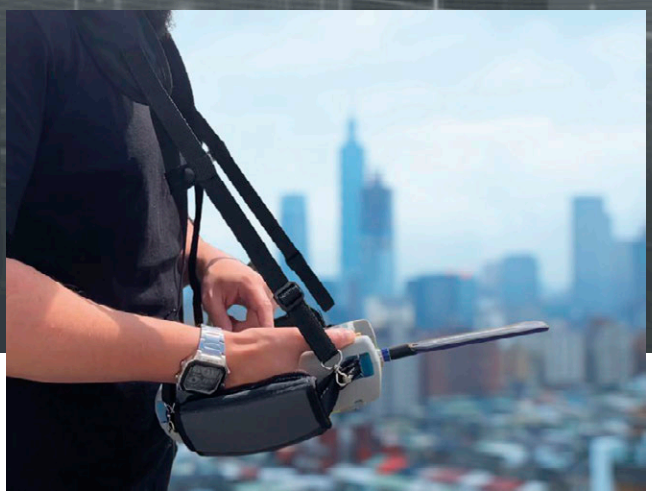
▶ Drive Test

Designed to easily and effectively analyze mobile networks in all scenarios, both indoor and outdoor, no matter how complex.

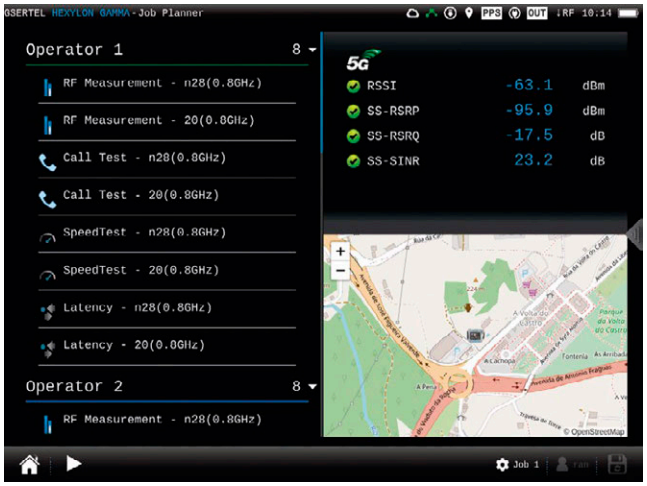
▶ Web Drive Test

Powerful post-processing. Maps are automatically generated in KML format, with point filtering by PCI, channel, or power. Comprehensive reports are also automatically generated in PDF or CSV formats.

Jobs Planner



5G networks are transforming various sectors, and the ability to measure and analyze their performance is essential in a wide range of scenarios. Each of these scenarios presents unique challenges that require flexible and precise measurement tools.



▶ Jobs Planner

Plan your work just once, tailored to the specific scenario you'll be operating in. Then, simply reload the selected plan to start working effortlessly.

▶ Results

Customize measurement taking in different scenarios, achieving consistent and reliable results in record time.

Web App

The simplest way to get the highest benefit of your Hexylon Gamma. Get the complete remote control with the embedded VNC application!

▶ Web Application and Personal Cloud

Access to remote user repository in the cloud, where you can get updates, measurements downloads, etc.

Download and analyze all measurements, screenshots and spectrum captures, and automatically generate comprehensive reports in PDF or CSV formats.

General Specifications

Display	8” Touch Screen TFT 1024×768 Full Color
Weight	2150g
Dimensions	250x210×60 mm (HxWxD)
Power supply	Input: 100-240V ~ 50-60Hz Output: 12VDC, 4A
Battery	Li-ion (7,2VDC, 9000mAh). Field replaceable.
Operating time	> 4 hours
Oper. temperature	-5°C a 45°C (23°F a 104°F)
Storage temperature	-20°C a 70°C (-4°F a 158°F)
Humidity	5% a 95% no-condensation
Storage	64GB

Technical Specifications

Frequency	
Range	600MHz to 5GHz
Accuracy	1 kHz
Tuning	ARFCN/Channel
Interfaces	
1 x SMA Connector (RF-IN P0)	Passive measurements antenna input
4 x SMA connectors (RF-Ax)	4 x Active measurements antenna input
6 x SIM slots	Switch up to 6 operators
1 x SMA connector	External GPS
HDMI	OSD+Video out
Jack	Audio out
Ethernet	Internet connection
DC IN	Power Supply
USB	Measurements export
Wi-Fi (2.4, 5, 6, 6E)	Internet connection
Spectrum Analyzer	
Span	100 KHz, 1, 5, 10, 20, 50, 100, 200, 500 MHz, 1.0, 2.0 and 3.3 GHz. Other (any value between 100 KHz and 3.3 GHz)
RBW	500 Hz, 1, 3, 5, 10, 30, 50, 100, 300, 500 KHz, 1, 3, 5 MHz
Marks	Up to 6, with delta feature
Persistent Spectrum	✓
Waterfall	✓
Event trigger	✓
Hold feature	Maximum and minimum
Reference level	Automatic and manual
RF Recording	✓
Active Analysis	
Calltest	Audio spectrum representation
Speedtest	Upload & Download
IP Info	IP, Gateway, MAC, Data Usage
Latency	Ping any IP and track Min/Avg/Max delay

5G/4G Analysis	
Max. Input power	20dBm
Measures	RSSI, RSRP, RSRQ and SNR
Duplex mode	FDD and TDD
SCS	15 and 30 kHz
Sensitivity: **PCI detection** **MIB decoding** **SIB1 decoding**	 -120dBm -120dBm -115dBm
Displayed parameters	PCI, SA/NSA, operator, PLMN, Cell Id, TAC
Signalling information treeview	MIB, SIB1, SIB2...
SSB spectrum display	PSS and SSS
3G/2G Analysis	
Max. Input power	20dBm
3G Measurements	RSSI, RSCP, ECIO
2G Measurements	RxLev, ECIO
3G Displayed parameters	PSC, Cellid y LAC
3G Displayed parameters	BSIC, Cellid, LAC
Drive Test	
Interval selection	Time/distance
Advanced map presentation	PCI/Channel/Power filtering
Indoor/Outdoor scenarios	✓

Specifications are subject to change
without prior notice

UNLOCK
LOCK
HDMI
A/V
USB
USB
ETHERNET
DC IN
MODEM 4
MicroSIM 4
MicroSIM 3
MicroSIM 2
MicroSIM 1
12...14,8V

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