WAVERONNE

Better Waves. Better Lives.



CELLSCOUT

Smart Cellular Surveyor



Purpose-Driven

- 4G & 5G Networks
- RSSI, SINR, RSRP and RSRQ
- Band, PCI/Cell ID, Time Stamp and EARFCN
- Associated GPS and Bearing
- Gauges, Charts and Time Graphs
- User Aids & Threshold Indicators

Field-Convenient

- Light-weight <1Kg
- Palm Size
- Heavy-duty metal body
- Touch Screen
- Variety of accessories
- IP65 Protection

CE

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Waveronne's CellScout is a compact, ultra-portable 4G/5G antenna alignment tool and network surveyor purpose-built for installation, optimization, and field teams. It instantly scans nearby cells and provides real-time visibility into serving and neighboring cell KPIs, enabling technicians to identify and lock onto a target cell, accurately align the antenna, and immediately validate network performance. With standalone operation, built-in mapping, and instant reporting, CellScout makes 4G/5G antenna alignment and network surveying faster, simpler, and more efficient in the field.

Specifications

Technology	4G (LTE) and 5G NR (SA and NSA*)
Main Measurands	RSSI, SINR, RSRP and RSRQ
Info Acquisition	Frequency Band, PCI/Cell ID, EARFCN, GPS and Bearing
Accuracy	± 2 dB
GPS Receiver	Built-in
User Control	Device's touch Screen
Display Size	Display: 5inch DSI Capacitive Touch Display, 720 × 1280, IPS, Optical Bonding Toughened Glass Panel, DSI Interface, 5-Point Touch
Refresh Rate	≥ 1 second
Result Representation	Serving cell (rotary gauges, instant values, maps and time chart) Top N available Cells (Bar charts)
Additional User Settings	legend for measurands (Excellent / Good / Fair / Poor)
User Aids	Pass/Fail indicator and Audio alert on failing the thresholds
SIM Card Dependency	SIM-based and SIM-less scanning
Locking	Cell Locking or Band Locking
User Inputs	Text fields via touchscreen keypad (ex. Site ID, Address, Technician ID, antenna gain compensation/ offsets and target tower coordinates)
Battery	7.4 V, 3400mAh, Lithium battery
Battery Operation	> 5 hours Typical Operating Time
Charger output	12V, 3A
Main input	AC 100 - 240 V, 50/60 Hz
LED or Screen Indicators	Charging, Power and Scanning
MIMO Capability	Optional (2×2) & (4x4)
5G Cell ID *	Decimal format
GPS Antenna	Attachable
Data Access	WiFi
Export format	CSV
Interfaces	4 × RF Ports, GPS port (common with RF port # 4), USB, DC Input
RF Connector	SMA Female
Standard Antennas	5 × duck antenna (700-3800 MHz)
Enclosure	Heavy-duty metal
Ingress Protection	IP65
SIM Card Holder	Easy Access External SIM card holder
Operating Temperature	-20 to 50 °C
Relative Humidity	< 80 % @ 0 to 35 °C and <70 % @ 36 to 50 °C. Non-condensing
Dimensions	230x125x50 mm
Weight	922 g (<1 Kg with antennas)
Antenna Dimensions	Antenna height 200 mm, Base diameter < 16 mm
Standard Package	Basic instrument, AC/DC charger, 5 × duck antennas and user guide

*5G NSA (Non-StandAlone) scans are best-effort and may not contain all relevant measurements. NSA captured info is carrier-dependent, generally based on SSB and the availability and content of SIB1 data within the 5G band

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Ordering Information

CellScout-5G	4G/5G Antenna Alignment tool and Network Surveyor, heavy duty enclosure, battery operation, 5” touch screen, SMA female connector. (Choose regional bands upon ordering)
CellScout-5G-FP	CellScout’s Field Pack including: -Hard Carrying Case -Protective Glove/Cover -Directional Antennas -Car Charger -CellScout Viewer

4G LTE Bands

31 supported LTE Bands:
B1 (FDD 2100) | B2 (FDD 1900) | B3 (FDD 1800) | B4 (FDD 1700/AWS) | B5 (FDD 850) | B7 (FDD 2600) | B8 (FDD 900) | B12 (FDD 700ac) | B13 (FDD 700c) | B14 (FDD 700PS) | B17 (FDD 700bc) | B18 (FDD 800) | B19 (FDD 800) | B20 (FDD 800DD) | B25 (FDD 1900) | B26 (FDD 850) | B28 (FDD 700) | B29 (SDL 700) | B30 (FDD 2300) | B32 (SDL 1500) | B34 (TDD 2000) | B38 (TDD 2600) | B39 (TDD 1900) | B40 (TDD 2300) | B41 (TDD 2500) | B42 (TDD 3500) | B43 (TDD 3600) | B46 (TDD 5200) | B48 (TDD 3600) | B66 (FDD 1700/AWS-3) | B71 (FDD 600)

5G NR Bands

28 supported 5G Bands:
n1 (FDD 2100 MHz) | n2 (FDD 1900 MHz) | n3 (FDD 1800 MHz) | n5 (FDD 850 MHz) | n7 (FDD 2600 MHz) | n8 (FDD 900 MHz) | n12 (FDD 700 MHz) | n13 (FDD 700 MHz) | n14 (FDD 700 MHz) | n18 (FDD 850 MHz) | n20 (FDD 800 MHz) | n25 (FDD 1900 MHz) | n26 (FDD 850 MHz) | n28 (FDD 700 MHz) | n28 (FDD 700 MHz) | n30 (FDD 2300 MHz) | n38 (TDD 2600 MHz) | n40 (TDD 2300 MHz) | n41 (TDD 2500 MHz) | n48 (TDD 3600 MHz) | n66 (FDD 1700/AWS-3 MHz) | n70 (FDD 2000/AWS MHz) | n71 (FDD 600 MHz) | n75 (SDL 1500 MHz) | n76 (SDL 1500 MHz) | n77 (TDD 3700 MHz) | n78 (TDD 3500 MHz) | n79 (TDD 4500 MHz)