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ACTIVE PORTABLE NETWORK DETECTION DEVICE

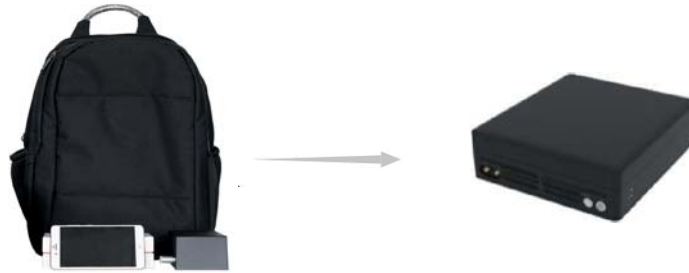


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Active Portable Network Detection Device



Introduction:

The Active portable network detection device is a specialized tool designed for collecting IMSI information from mobile phone terminals operating on 4G LTE and 5G NR networks, as well as accurately locating specific targets. It finds extensive application in urban villages, buildings, entertainment and sports venues, traffic stations, and other relevant scenarios. This advanced device enables swift target acquisition and precise target positioning.

Features:

- Simulate real wireless broadcast signals, can covertly collect 4G/5G network terminal IMSI information.
- With independent networking function, no radiation and will not affect the normal use of non target terminal.
- Mobile phone APP provides wireless connection, simple interface and easy operation.
- Plug and play, no complex configuration after power on.
- The machine has excellent mobility and flexibility.



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Basic principle:

The fundamental principle of the Active portable network detection device is as follows:

The active equipment primarily consists of an active transmission module, a power amplifier module, and a circuit breaker. By simulating the mobile communication network signal of the operator, it establishes access to and registration of surrounding mobile phone terminals within the simulated network, thereby accomplishing the collection of public network user terminal information in the coverage area. Once obtaining the user's IMSI and other details, the active equipment executes imperceptible services for specific targets while asymptotically measuring their signal strength through a directional antenna to achieve precise target positioning.

Main functions:

- Support mobile terminal information collection and positioning under 4G LTE and 5G NR networks.
- Modular design, backpack style and flexible expansion.
- GPS sync and air port sync function.
- Cover commonly used 4G LTE and 5G NR frequency bands.
- Accurate positioning of anti-counterfeit base station mobile phone.
- Support network frequency sweeping function.

Composition:

The product composition is shown in Table 1.

Serial number	Name	Quantity
1	4/5G portable positioning device host	1
2	Batteries	2
3	4/5G positioning and direction finding system APP	1
4	Control terminal (smartphone)	1
5	Chargers	1
6	Backpack	1

Application scenarios

The 4/5G active positioning device is primarily utilized in diverse indoor or densely populated environments, such as urban villages, transportation hubs, cybercafes, and recreational establishments.



Urban village



Main street



Station



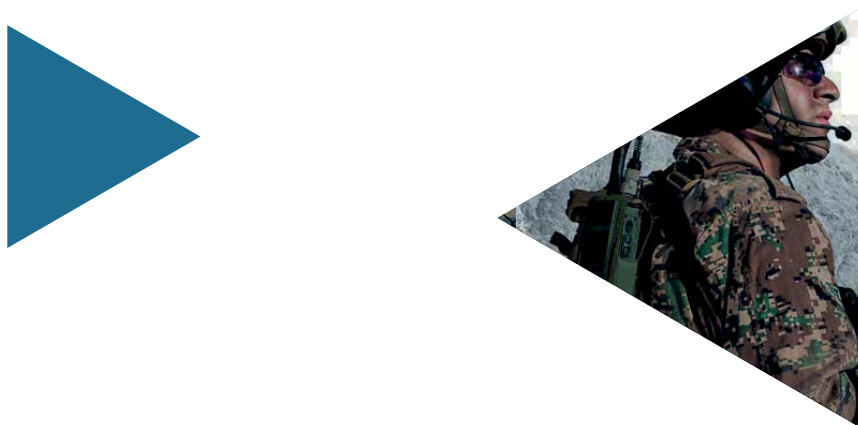
cybercafe

Technical Specification

Technical specifications of 4/5G active positioning device are detailed in Table 2.

Table 2 Technical specifications of 4/5G active positioning device

Type of equipment	4/5G portable positioning device
Product form	Portable Backpack
Work style	4G LTE and 5G NR
Working bands	5G: N78, 4G: B3/B7/B8/B20/B28/B40
Working mode	Three (4G, 5G, 4G+5G)
Number of carriers	4 Carrier @2W/ per carrier
Sensitivity	$\leq -102\text{dBm}$
Features	Coding/locating
Entry distance	$\leq 300\text{M}$ (Max)
Operating terminal	Android phone
Connection method	WIFI
Operating temperature	$-10\text{ }^{\circ}\text{C} \sim +45\text{ }^{\circ}\text{C}$
Power Consumption	$\leq 90\text{W}$
Size	300mm*250mm*100mm
Weight	$\leq 4\text{kg}$ (without battery)



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