



# CWF3

## Portable WIFI Check Device



# Product Brief

Computer signal



Mobile phone signal



Video signal



Signal interference

WiFi environment security inspection equipment is developed for wireless signal analysis and precise location confirmation of WIFI terminal equipment such as mobile phone, computer, wireless camera, etc. The system receives the wireless signal transmitted by mobile phone and wireless access point, demodulates and analyzes the target signal, and then analyzes and summarizes the surrounding wireless signal. At the same time, by measuring the wireless signal strength of the WIFI terminal, the target can be accurately positioned. It also supports interference countermeasures against target wireless signals to hinder normal network activities.





# Functional indicators

Functional indicators



**(1) Support 802.11a/b/g/n/ac/ax protocol (WIFI 3/4/5/6)**

**(2) Support target activity detection (hotspot detection supports all kinds of WIFI routers, AP access points, portable WIFI access points, soft AP and mobile phone hotspots, etc., terminal detection supports all kinds of WIFI terminals, desktop computers, laptops, tablets, mobile phones, smart home devices, WIFI cameras, etc.).**

**(3) Support to scan wireless access points, detect wireless access point MAC, network name, channel, signal strength, transmit power, WIFI version, support rate, equipment manufacturers, etc. (including hidden hot spots)**

**(4) Support for scanning wireless terminal devices, detecting terminal MAC, signal strength, access status, access point information, detection information, etc. (including connected devices and unconnected devices).**

**(5) Support WIFI wireless network association, can automatically identify multiple access points in the same network, can associate access points and terminal topology relationship.**

**(6) Support in-depth analysis of suspected WIFI camera target devices to further confirm the type of devices.**

**(7) Support wireless environment variation analysis, can analyze the abnormal appearance or disappearance of the environment of the device, support the analysis of the environment accompanied by the target device in the case of environmental changes.**

**(8) Support multi-target tracking under 2.4G and 5G bands, and the tracking effect is related to the number of targets.**

**(9) Support approximate positioning of access points and terminals.**



(10) Support wireless attack behavior detection.

(11) Support countermeasures against targets in 2.4G and 5G frequency bands, and the whole network countermeasures against the surrounding wireless environment.

(12) Support blacklist setting, blacklist discovery early warning.

(13) Support pseudo hot spot detection function, pseudo hot spot detection automatic warning.

(14) Support the storage of historical detection data, the storage file can carry the storage time, storage location, equipment authorized units, equipment operators and other information.

(15) Support the comparison function of historical detection data, which can compare the changes and differences of hot spots and terminal devices in the two scanning data, including the device remains unchanged, the device disappears, and the device appears new.

(16) Support the collision function of historical detection data, which can compare the hot spot and terminal data that exist at the same time in multiple scanning data.

(17) Support dynamic adjustment of scanning power, can dynamically adjust the 10-level power, filter out non-concerned devices with weak signals, and facilitate the search of targets.

(18) Support scanning detection to predict the trend of signal strength change of equipment in the environment, and display the signal change of environmental equipment (larger, smaller or unchanged).

(19) Support the analysis of hidden hotspot, can detect the hidden hotspot in the environment and the terminal device connected to the hotspot, and support the real name of the hidden hotspot resolution.

(20) Support screenshot retention of the system operating environment.

(21) The saved detection data and system screenshots can be downloaded and exported (the exported data is excel table for easy viewing).

(22) Support the brief analysis of the current wireless environment, support the radar map to show the distribution of hot spot distance, support the hot spot channel distribution map to show the occupation of hot channel in the



# Technical parameter

type	argument
Wireless standard	IEEE 802.11a/b/g/n/ac/ax protocol (WIFI 3/4/5/6)
Wireless channel	2.4G: 1-13 5G: CN radio band standard compliant channels
Acceptance sensitivity	-90 dBm
Coverage	Open environment > 200m, indoor range is related to specific environment
Scanning rate	5 seconds
Accurate positioning	< 1m
Battery life	> 6 hours
Antenna gain	Related to the specific form, some built-in 14db directional antenna
System hardware	Domestic integrated hardware equipment
Operating system	Linux operating system

# Product display

