



PHC12 Professional Handheld Wireless Signal Detector Anti-Spying & Signal Detection Device



Product Introduction

The PHC12 is a high-performance handheld wireless signal detection device designed for comprehensive anti-surveillance and signal analysis. It integrates multi-band detection, including 2G/3G/4G/5G cellular signals, WiFi, Bluetooth, GPS trackers, FM bugs, and hidden cameras, ensuring full-spectrum security screening. Equipped with a built-in infrared thermal imager, it enables dual-mode detection by combining signal scanning with heat distribution analysis. With a fast scanning cycle of less than 500ms and support for external antennas, the PHC12 offers real-time signal capture, precise tracking, and professional-grade reporting. Ideal for government, corporate, and personal security, it is a portable, powerful tool for detecting and locating wireless eavesdropping, tracking, and spying devices.

Product Key Selling Points

All-in-One Multi-Band Signal Detection

The PHC12 covers a wide frequency range from 1MHz to 12GHz, supporting detection of 2G/3G/4G/5G signals, WiFi, Bluetooth, GPS trackers, FM transmitters, and other suspicious wireless devices. This makes it the ultimate handheld wireless signal detector for complete environmental sweeps.

Fast & Real-Time Scanning with Precise Location Tracking

With a scanning cycle of less than 500ms, the device captures signals in real time. Its external antenna support and directional tracking feature allow users to accurately locate hidden transmitters, GPS trackers, and illegal listening devices with high precision.

Advanced WiFi & Bluetooth Analyzer with Hidden Device Detection

The PHC12 identifies hidden WiFi hotspots, Bluetooth trackers, and unauthorized connected devices. It supports 802.11ax WiFi and Bluetooth 5.2, providing detailed device info such as MAC



address, signal strength, brand, and connection status for thorough network security checks.

Built-In Infrared Thermal Imaging for Visual Heat Detection

Integrated 256x192 IR thermal camera helps detect hidden electronics by visualizing heat signatures. With a temperature range of -20°C to 550°C , it complements RF detection to reveal non-transmitting devices like powered cameras or recorders.

User-Friendly Touchscreen & Professional Reporting

Featuring a 6.67-inch HD touchscreen, intuitive spectrum display, and WiFi-enabled report export, the PHC12 simplifies operation while delivering professional-grade analysis. Its lightweight design (450g) and 3+ hour battery make it ideal for field use.

Product Specifications

1. Frequency Range: 1MHz - 12GHz
2. Supported Signal Types:
 - WiFi: 2.4GHz / 5.2GHz / 5.8GHz (802.11a/b/g/n/ac/ax)
 - Bluetooth: Classic & BLE (Bluetooth 5.2)
 - Cellular: 2G / 3G / 4G / 5G (all Chinese operators: China Mobile, China Unicom, China Telecom, CBN)
 - Other Bands: 315-433MHz, 800MHz, 1.2GHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz
3. Infrared Thermal Imaging Resolution: 256 × 192
4. IR Frame Rate: 25Hz
5. Temperature Measurement Range: -20°C to 550°C
6. Noise Equivalent Temperature Difference (NETD): $\leq 50\text{mK}$
7. Detection Range: 10cm - 10m
8. Battery Life: ≥ 3 hours
9. Antenna: 3dBi omnidirectional antenna (external antenna supported)
10. Processor: Qualcomm Snapdragon CPU
11. Display: 6.6-inch HD touchscreen
12. Storage: 128GB
13. Charging Interface: Type-C, 18W fast charging
14. Dimensions: 188mm × 88mm × 20mm
15. Weight: 450g

Product Features

Feature 1: Cellular & Wireless Communication Signal Detection

The PHC12 performs full-band monitoring of mobile signals from all major carriers, including 2G, 3G, 4G, and 5G networks. It also scans common spy transmission bands such as 315-433MHz and 800MHz-5.8GHz. With a rapid 500ms sweep cycle, it identifies active signals in real time, helping users detect unauthorized cellular interceptors, illegal repeaters, or covert transmitters. The external antenna option enhances sensitivity for locating even low-power devices, making it essential for secure meeting rooms, offices, and vehicles.



Feature 2: WiFi Scanning & Hidden Camera Detection

This device scans both 2.4GHz and 5.8GHz WiFi networks, identifying access points and connected clients — including hidden SSIDs. It detects rogue WiFi cameras, monitors device activity, and provides MAC addresses, signal strength, and brand information. Whether checking hotel rooms, rental properties, or corporate spaces, the PHC12 helps uncover hidden wireless cameras and unauthorized network intrusions with precision.

Feature 3: Bluetooth Tracker & Device Discovery

Supporting both Classic and Low Energy Bluetooth (BLE 5.2), the PHC12 scans for nearby Bluetooth devices like AirTags, key trackers, or eavesdropping tools. It displays device name, MAC address, manufacturer, and signal strength, enabling real-time tracking of suspicious Bluetooth tags. This function is vital for personal privacy protection against unauthorized tracking devices in bags, cars, or personal belongings.

Feature 4: Spectrum Analysis & Audio Demodulation

The built-in spectrum analyzer visualizes RF activity from 1MHz to 12GHz, allowing users to identify abnormal transmissions. It can demodulate FM/AM signals to audibly play back suspicious audio feeds, helping confirm the presence of wireless microphones. Users can also record and compare spectrum data for forensic analysis, making it a powerful tool for technical surveillance countermeasures (TSCM).

Feature 5: Infrared Thermal Imaging for Non-Transmitting Device Detection

The integrated thermal camera detects heat emitted by electronic devices—even when they are not transmitting. This allows users to locate hidden wired cameras, recording devices, or embedded electronics behind walls or objects. Combined with RF detection, the IR module offers dual verification, significantly improving detection reliability in comprehensive anti-spying sweeps.

Application & Pain Points Solved

- **Government & Military Confidentiality Protection**

Prevents information leaks by detecting hidden transmitters, GPS trackers, and illegal recording devices in secure facilities, meeting rooms, and vehicles. Solves the risk of classified data interception through wireless espionage.

- **Corporate & Boardroom Security**

Ensures privacy during high-stakes negotiations and internal meetings by identifying wireless eavesdropping devices and unauthorized network connections. Addresses corporate espionage and insider threat concerns.

- **Hotel & Airbnb Privacy Safety**

Allows travelers to scan rooms for hidden cameras or audio bugs. Provides peace of mind by detecting covert surveillance devices in rentals, hotels, and changing rooms.



- **Personal Anti-Tracking & Privacy Protection**

Helps individuals discover GPS trackers on vehicles or Bluetooth tracking devices (e.g., AirTags) on personal items. Solves stalking and unauthorized tracking issues.

- **Vehicle & Executive Car Sweeps**

Detects GPS locators, hidden microphones, or transmission modules planted in cars. Ensures the safety and privacy of executives, diplomats, and high-profile individuals during transport.

Q&A

Q1: What types of devices can the PHC12 detect?

A1: It can detect GPS trackers, FM/AM listening devices, Bluetooth trackers, WiFi cameras, 2G/3G/4G/5G signals, hidden transmitters, and other suspicious wireless transmitters within 1MHz – 12GHz.

Q2: How fast is the signal scanning?

A2: The PHC12 scans every 500 milliseconds, ensuring real-time detection and minimal delay in identifying active signals.

Q3: Can it locate the exact position of a hidden device?

A3: Yes, with its directional antenna support and signal strength indicator, users can track and locate transmitting devices with high accuracy.

Q4: Is professional training required to operate the PHC12?

A4: The device features an intuitive touchscreen and simple menu, making it suitable for both professionals and general users. Basic guidance is included in the manual.

Q5: Does it receive software updates?

A5: Yes, the PHC12 supports firmware updates to ensure compatibility with new signal types and improved detection algorithms.

Package Contents

PHC12 Handheld Wireless Signal Detector Host × 1

3dBi Omni-Directional Antenna × 1

Type-C Fast Charging Cable × 1

18W USB Power Adapter × 1

External Antenna Adapter (if applicable) × 1

User Manual & Quick Start Guide × 1

Protective Carry Case × 1

Infrared Thermal Imaging Lens Cover × 1