



TFN PHC3 Professional Wireless Signal Detector 5G & Wi-Fi/Bluetooth Full-Band Scanner



Product Introduction

The TFN PHC3 Professional Wireless Signal Detector is a top-tier, independently developed RF security inspection device designed for comprehensive privacy protection and counter-surveillance. It excels in detecting and locating a vast array of wireless threats across a wide frequency spectrum from 1MHz to 6GHz. Its core capability includes full-band scanning of global 2G, 3G, 4G, and the latest 5G cellular signals, as well as 2.4GHz Wi-Fi and Bluetooth protocols. Equipped with a 4.3-inch color touchscreen, intuitive menu-driven operation, and advanced signal logging functions, the PHC3 Pro offers unparalleled accuracy and sensitivity for identifying hidden cameras, GPS trackers, audio bugs, and illicit communication devices. It is the trusted choice for professional TSCM (Technical Surveillance Counter-Measures) operations, corporate security, and personal privacy audits, ensuring your environment is free from wireless eavesdropping.

Product Key Selling Points

Unmatched Full-Band Detection from 2G to 5G & Beyond

The PHC3 Pro sets a new standard with its broad frequency coverage from 1MHz to 12GHz. It seamlessly scans and identifies signals from all global cellular networks (2G/3G/4G/5G), including China's major carriers and broadcast 5G. This ensures the detection of the latest 5G spy devices, GSM bugs, cellular GPS trackers, and video transmitters that cheaper detectors miss. Its ability to process TD-LTE and standby signals breaks through common market technical barriers, providing industry-leading effectiveness in real-world scenarios.

Precise Wi-Fi & Bluetooth Hotspot/Tag Identification & Location

Go beyond simple signal detection with intelligent analysis. The PHC3 Pro features separate, dedicated detectors for 2.4GHz bands. Its unique Wi-Fi interface not only lists hotspots but can also locate specific Wi-Fi/Bluetooth terminals and identify potential cameras (flagged in red). Crucially, it can detect and locate BLE Bluetooth tag trackers like Apple AirTag and Huawei Tag,



offering vital protection against covert physical tracking stalking.

4.3" Touchscreen with Signal Logging & Forensic Analysis

Operate with clarity and record evidence. The large 4.3-inch color TFT capacitive touchscreen provides an intuitive, menu-driven interface for easy navigation. The built-in signal logging function records up to 1 hour of cellular data and 24 hours of Wi-Fi/Bluetooth activity. Logs can be reviewed on-screen or exported via SD card for detailed forensic analysis and reporting on a computer, making it indispensable for professional security audits and documentation.

High Sensitivity & Adjustable Audio Alert for Accurate Pinpointing

Engineered for precision, the PHC3 Pro boasts high sensitivity (up to -85dBm) and a wider dynamic range, enabling the detection of weak signals from up to 50 meters away. The audio "beeping" alert mode increases in frequency as you approach the signal source, allowing for accurate spatial triangulation and pinpointing of hidden devices. The durable machined aluminum housing ensures reliability in demanding field use.

Multi-Interface Operation for Targeted Sweeps

Conduct efficient, targeted inspections using four specialized modes. The Communication Interface scans all cellular activity. The Wi-Fi Interface (with Router, Client, and Unconnected sub-modes) analyzes network threats. The Bluetooth Interface tracks tags and Bluetooth devices. The Quick Scan Interface provides a rapid overview of all active RF signals from 1MHz to 6GHz. This structured approach streamlines the search process for both professionals and serious privacy advocates.

Product Specifications

Parameter	Details
Detection Frequency Range	1MHz ~ 6GHz
Cellular Coverage	Global 2G / 3G / 4G / 5G Signals (Including China Mobile, Unicom, Telecom, & Broadcast 5G)
Wireless Protocols	Wi-Fi (2.4GHz), Bluetooth/BLE, RF
Key Detection Targets	Cellular Phones/Spy Phones, GSM Bugs, GPS Trackers, 3G/4G/5G Wireless Cameras, Wi-Fi/Bluetooth Eavesdropping Devices, BLE Tags (AirTag, Huawei Tag), Storage/Forward Devices
Display	4.3-inch Color TFT Capacitive Touchscreen
Sensitivity	Up to -85dBm
Alert Mode	Adjustable Audio "Beep" Alert (Signal Strength Indicator)
Signal Logging	Up to 1-hour Cellular Log / Up to 24-hour Wi-Fi & Bluetooth Log
Log Export	Via SD Card (for PC storage/viewing)
Power Source	Built-in Rechargeable Lithium-Polymer Battery
Operation Time	Up to 6 hours (Fully Charged)
Charging Time	Approximately 4 hours
Material	Durable Machined Aluminum Alloy



Product Features

Feature 1: Comprehensive Communication Signal Sweep & Analysis

The Communication Interface is your frontline defense against cellular-based threats. It performs a full-spectrum scan of all mobile communication frequencies used by phones, GPS trackers, GSM bugs, and wireless video transmitters. When a strong signal is detected (indicated by yellow/red bars and an audible alarm with a value ≥ 70), it signifies active communication from a nearby device. This function is critical for detecting illicit 5G surveillance devices and confirming the presence of hidden trackers in sensitive areas like boardrooms or vehicles, providing actionable intelligence for security personnel.

Feature 2: Intelligent Wi-Fi Network Mapping & Threat Identification

The advanced Wi-Fi Interface transforms the PHC3 Pro from a simple detector into a network diagnostic tool. It scans and lists all nearby 2.4GHz Wi-Fi routers and hotspots. By selecting a specific network, you can actively locate the physical source of that signal, with a real-time value displayed for precision. Most importantly, it intelligently flags networks with suspected connected camera devices in red, dramatically narrowing the focus of your physical search. The "Client" and "Unconnected" sub-modes provide a complete map of all wireless activity in the environment.

Feature 3: Proactive Bluetooth & Smart Tag Tracker Detection

Protect against modern stalking and asset tracking tools. The dedicated Bluetooth Interface scans for all Bluetooth Low Energy (BLE) devices. It specifically identifies and allows you to locate popular item trackers like Apple AirTag and Huawei Tag, which are increasingly misused for covert surveillance. This targeted capability addresses a growing personal security concern. By clicking on any discovered Bluetooth device, you can initiate a directional search to find its exact hiding spot, ensuring your privacy both digitally and physically.

Feature 4: Rapid Environmental RF Assessment with Quick Scan

For a fast, initial sweep or a broad overview of RF activity, the Quick Scan Interface is invaluable. It instantly scans from 1MHz to 6GHz, displaying the strongest current signal frequency (Freq) and its signal strength (RSSI). A list of other active frequencies and their intensities is also shown. This provides security teams with an immediate "snapshot" of the wireless landscape, helping to identify anomalous transmissions quickly before diving into more targeted investigations with the other specialized interfaces, optimizing inspection efficiency.

Feature 5: Forensic-Grade Signal Logging for Evidence & Reporting

The built-in long-duration signal logging function elevates the PHC3 Pro to a professional forensic tool. Capable of recording cellular activity for one hour and Wi-Fi/Bluetooth data for 24 hours, it creates a verifiable audit trail. These logs can be reviewed directly on the clear 4.3-inch screen or exported via SD card for in-depth analysis on a computer. This feature is essential for generating detailed client reports, providing evidence of sweeps, and conducting post-incident analysis, meeting the rigorous documentation standards required in corporate and government security sectors.



Application & Pain Points Solved

- Corporate & Government Confidentiality Protection

Pain Point: Fear of corporate espionage, leaked boardroom discussions, or compromised sensitive government meetings via hidden wireless transmitters.

Solution: The PHC3 Pro conducts pre-meeting TSCM sweeps, detecting cellular, Wi-Fi, and audio bugs. Its logging function provides a verifiable security audit trail, ensuring that meeting spaces are secure and confidential information remains protected from industrial spies or competitors.

- Personal Privacy & Travel Security

Pain Point: Anxiety about hidden cameras in Airbnb rentals, hotel rooms, vacation homes, or public changing rooms, infringing on personal privacy.

Solution: Travelers can use the PHC3 Pro to perform a quick and thorough sweep of accommodations. Its ability to locate specific Wi-Fi cameras and identify suspicious networks (flagged in red) offers peace of mind, allowing you to relax and enjoy your stay in a verified safe environment.

- Anti-Tracking & Vehicle Security

Pain Point: Concerns about being physically tracked via hidden GPS trackers on vehicles by stalkers, competitors, or thieves casing properties.

Solution: The device's full-band cellular scanning can detect active GPS tracker signals (2G/3G/4G/5G), while the Bluetooth interface specifically hunts for BLE tags like AirTags. Regular vehicle sweeps protect executives, high-net-worth individuals, and fleet managers from unauthorized location monitoring.

- Law Enforcement & Investigation Support

Pain Point: Investigators need reliable, court-defensible evidence of illegal surveillance or unauthorized wireless communication devices during operations.

Solution: The PHC3 Pro's high sensitivity and accurate pinpointing aid in locating covert devices used by subjects. The forensic signal logging capability creates a timestamped record of detected transmissions, serving as valuable digital evidence to support investigations and legal proceedings.

- Critical Infrastructure & Exam Hall Integrity

Pain Point: The need to prevent unauthorized wireless communication for cheating in exams or to secure wireless environments in secure facilities like banks and data centers.

Solution: In exam halls, it can detect hidden Bluetooth earpieces and Wi-Fi devices. In secure facilities, it ensures no unauthorized wireless transmissions originate from or enter sensitive areas, upholding the integrity of both academic testing and physical information security perimeters.

Q&A



Q1: What makes the PHC3 Pro better than simpler, cheaper signal detectors?

A1: The PHC3 Pro is a professional-grade TSCM device. Key differentiators include its wide 1MHz-12GHz range covering 5G, the 4.3-inch touchscreen with detailed interfaces, forensic signal logging to SD card, and the ability to identify and locate specific Wi-Fi networks and BLE tags. Cheaper detectors often lack these advanced features, have smaller frequency ranges, and offer less precise targeting, resulting in more false alarms and missed threats.

Q2: Can it really detect the latest 5G spy devices and Bluetooth trackers like AirTag?

A2: Absolutely. The PHC3 Pro is specifically engineered to handle modern 5G signaling protocols, breaking past the limitations of older detectors. It also features a dedicated Bluetooth/BLE scanning mode that is highly effective at detecting and locating Apple AirTags, Huawei Tags, and similar smart item trackers, addressing a very contemporary privacy threat.

Q3: Is the device difficult to operate for a non-technical user?

A3: While packed with professional features, it is designed for intuitive use. The menu-driven touchscreen interface logically separates functions (Communication, Wi-Fi, Bluetooth, Quick Scan). Basic sweeps can be performed easily following the quick start guide. Mastering advanced features like log analysis may require more time, but core detection operations are straightforward.

Q4: How does the Wi-Fi "camera suspicion" alert work?

A4: Within the Wi-Fi interface, the device analyzes discovered networks and connected clients. Based on signal characteristics and behavioral heuristics commonly associated with IP camera data streams, it flags networks with a high probability of having a connected camera. These are highlighted in red on the list, prompting the user to prioritize the physical location of that specific network source during the sweep.

Q5: What's included in the box, and what are the optional accessories?

A5: The standard package includes the PHC3 Pro main unit, a USB charging cable, and a user manual. An optional accessory available for purchase is a high-resolution (160x120) infrared thermal imaging lens, which can be attached to visually identify hidden electronics by their heat signature, complementing the RF detection capabilities.

Package Contents

Standard Package Includes:

- 1 x TFN PHC3 Pro Wireless Signal Detector (Main Unit)
- 1 x USB Charging Cable
- 1 x User Manual