



VS80

Professional Bug Hunter — Multi-Channel RF & Magnetic Detector

Professional Counter-Surveillance Operation Manual

Hidden Camera & Audio Bug Detection | GPS Tracker Sweep | Dual-Antenna RF & Magnetic Detection

Version 1.0 | August 2026 | FindaSpy.com



The FindaSpy VS80 Bug Hunter — dual-antenna precision from 1 MHz to 12 GHz

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Section 1 — How To Perform a Complete RF & Magnetic Sweep

A professional counter-surveillance sweep is a phased, systematic operation — not a single pass of the detector. Follow all three phases in sequence for reliable results.



The FindaSpy VS80 Bug Hunter — extended-range digital RF detection in the palm of your hand

Phase 1 — Pre-Sweep Preparation (Environmental Hardening)

Before powering on the VS80, you must baseline and harden the target area. Wireless bugs hide their transmissions within the everyday noise of standard household and office electronics. Eliminating known sources first ensures that any remaining signal the VS80 detects is genuinely suspicious.

Step 1 — Document the WiFi Environment

On your smartphone, open Settings and navigate to the WiFi network list. Take a screenshot of every device and network visible on that list. This gives you a record of every known active transmitter in the area — any device on this list is a legitimate signal that the VS80 may detect and could trigger a false positive during your sweep.

Step 2 — Isolate Your Phone

Immediately after capturing the screenshot, switch your phone to Airplane Mode. This prevents your own device from transmitting data bursts during the operation and contaminating your readings.

Step 3 — Power Down All Known Wireless Transmitters

Unplug or completely shut off every wireless-capable device inside the sweep zone. This includes but is not limited to:

- Wireless routers and mesh WiFi access points
- Wireless printers and smart home hubs
- Smart home ecosystems — Ring doorbells, Nest thermostats, WiFi-connected cameras
- Video streaming sticks — Roku, Firestick, Apple TV, Chromecast
- Bluetooth speakers, smart speakers, and wireless appliances

NOTE: The goal of Phase 1 is to create a 'quiet' RF environment. The only signals that remain after you shut everything down are from devices that should not be there.

Phase 2 — Calibration (Setting the Baseline Outside)

Calibrating outside the suspect area ensures the VS80 is tuned to the real-world ambient RF floor of the location — not potentially masked by a hidden bug already transmitting inside the room.

1. Take the VS80 completely outside the structure or vehicle you intend to sweep. Walk far enough from the building that its interior signals do not reach you.
2. Attach ANT1, the wideband omni-directional antenna (1 MHz – 12 GHz). Power on the device — it enters RF Detection Mode automatically, with ANT1 active by default.
3. Slowly turn the Threshold Knob clockwise. Watch the Signal Strength bar climb from -60 dBm toward +10 dBm. Continue until the device emits an active ALARM.
4. Slowly back the knob counter-clockwise just until the alarm stops. The device is now calibrated — maximally sensitive to any RF spike, but muted against the local ambient outdoor background. This is your operational baseline.

WARNING: Do not re-adjust the Threshold Knob after this calibration until you are actively pinpointing a target in Phase 3, Step 3. Changing it prematurely resets your calibrated baseline.

Phase 3 — Executing the Sweep & Pinpointing the Threat

With the VS80 calibrated, use systematic grid scanning followed by progressive approach and threshold attenuation to identify and locate any hidden bug, camera transmitter, or tracker.

Step 1 — Enter the Sweep Zone

Holding the calibrated VS80, slowly walk across the threshold into the room or vehicle. Move the device in a steady grid pattern across walls, light fixtures, power outlets, and furniture surfaces. Do not rush — move no faster than 30 cm per second.

Pay particular attention to high-risk concealment points:

- Smoke detectors and carbon monoxide alarms
- Wall clocks, picture frames, and decorative objects
- Power outlets, multi-plug adapters, and USB chargers
- Air vents and grilles
- Television backs and set-top boxes
- Houseplants, books, and bookends
- Under furniture and inside sofa cushion gaps

Step 2 — Respond to the First Alert

If the VS80 encounters an RF source and the ALARM indicator lights, stop moving immediately. Do not walk away — you have entered a transmission field. Note your current position and the direction you were moving.

Step 3 — Attenuate and Advance

Rotate the Threshold Knob counter-clockwise just until the alarm stops. Now step closer in the direction that originally triggered the spike. This 'attenuation and advance' technique is the core of professional sweep work — it compresses the detection field so that only signals directly in front of you remain above the alarm threshold.

Step 4 — Repeat the Signal Squeeze

As you move closer to the hidden source, the signal strength will naturally increase and re-trigger the alarm. Every time the alarm sounds:

- Stop your forward movement immediately.
- Decrease the threshold counter-clockwise until the alarm clears.
- Move one more step closer to the signal source.
- Repeat.

Step 5 — Confirm the Target

Continue the squeeze cycle. Eventually the Threshold Knob will be at or near minimum, and the VS80 will still be alarming. You are now within inches of the RF source. This precise location is the hidden transmitter, camera, or tracker.

TIP: If the source doesn't resolve cleanly on ANT1, press the ANT1/ANT2 button to switch to ANT2 — the 2.44 GHz–5.39 GHz isolation antenna. Narrowing the band cuts through ambient noise and can isolate a WiFi or Bluetooth-based bug that ANT1's wideband sweep glossed over. See Section 2 for details.

1.1 Vehicle GPS Tracker Sweep



A full vehicle sweep pairs the RF antennas with the magnetic gooseneck probe to catch both transmitting and silent trackers

5. Park the vehicle in an open area away from other cars and cellular towers where possible.
6. Switch all phones to Airplane Mode. Disable the vehicle's Bluetooth and WiFi systems.
7. Calibrate the VS80 outside the vehicle (Phase 2 above), with ANT1 selected.
8. Begin the exterior sweep: slowly pass the antenna along the undercarriage, bumpers, wheel wells, and roof at 10–20 cm distance. GPS trackers most commonly hide in wheel arches and under the rear bumper.
9. Move to the interior: dashboard, center console, under seats, inside the trunk, and spare tire compartment.
10. Any signal spike: apply the attenuate-and-advance technique from Phase 3 to locate the device precisely.

NOTE: GPS trackers often transmit in short bursts rather than continuously. If readings are intermittent, conduct multiple passes over 5–10 minutes to catch the transmission window.

Magnetic Detection Mode

Many GPS trackers mount magnetically and stay silent between transmission bursts, so a magnetic sweep is the essential follow-up to every vehicle RF check — it catches trackers even when they aren't actively broadcasting.

1. Attach the magnetic gooseneck probe to its port.
2. Short-press the MAG/RF button to switch into Magnetic Detection Mode. The MAG indicator lights up to confirm.
3. Slowly sweep the probe along the vehicle chassis, wheel wells, under seats, inside panels, and behind furniture. Keep the probe 0–5 cm from surfaces.
4. A rising Signal Strength reading or a sustained alarm confirms a magnetic field source at that location.
5. Press MAG/RF again to return to RF Detection Mode when finished.

NOTE: Metal surfaces and some electronics produce background magnetic fields. Confirm any reading by pulling the probe back and returning to verify the field is localized, not ambient.

1.2 Hotel Room or Office Sweep

1. Turn off or put your phone in Airplane Mode.
2. Power down all known wireless devices in the room (TV, clock radio, smart assistant, etc.).
3. Calibrate outside the room (Phase 2), with ANT1 selected.
4. Enter and begin a systematic wall-by-wall, object-by-object sweep in an S-pattern, holding the VS80 10–30 cm from surfaces.
5. When a sustained high reading is found, use the attenuate-and-advance technique to zero in.
6. If the room is dense with legitimate WiFi and Bluetooth traffic, switch to ANT2 to isolate that band and separate real threats from background clutter.
7. Switch to Magnetic Detection Mode and probe along all walls and furniture surfaces to catch any wired or magnetically-mounted devices that may not be transmitting RF.

Section 2 — The Dual-Antenna Advantage

The VS80 ships with two purpose-built antennas, selected with the ANT1/ANT2 button. Understanding when to use each is the key to cutting through noisy RF environments and finding real threats faster.

Antenna	Frequency Range	Best Used For
ANT1 — Wideband	1 MHz – 12 GHz	General-purpose sweeping. Casts the widest possible net across analog bugs, cellular, GPS, WiFi, Bluetooth, and microwave-band devices simultaneously. Use this as your default for every sweep.
ANT2 — Isolation	2.44 GHz – 5.39 GHz	Crowded environments with heavy legitimate WiFi/Bluetooth traffic. Narrows detection to this band only, filtering out noise from other frequencies so a hidden WiFi camera or Bluetooth bug doesn't get lost in the clutter.

When To Switch Antennas

Start every sweep on ANT1 — it's the widest net and will catch the vast majority of threats, including devices operating outside the 2.4–5.39 GHz range like analog audio bugs, cellular trackers, and GPS units.

Switch to ANT2 when:

- You're sweeping a location with dense legitimate WiFi and Bluetooth activity (offices, apartments, hotels) and suspect the extra RF noise is masking a hidden device.
- ANT1 gave you a broad, unstable reading that won't resolve to a single point using the attenuate-and-advance technique.
- You specifically suspect a WiFi-based hidden camera or Bluetooth audio bug, since both operate inside the 2.44–5.39 GHz window.

TIP: Think of ANT1 as your wide-area radar and ANT2 as your zoom lens. Sweep the whole space on ANT1 first, then switch to ANT2 to resolve any spot where the signal picture is muddy.

Section 3 — Detection Modes

3.1 RF Detection Mode (Default)

RF Detection Mode activates automatically at power-on (RF indicator lights up). Select ANT1 or ANT2 with the antenna button to control which band the VS80 monitors.

Frequency Band Coverage

Band / Service	Frequency Range
CDMA	824 – 849 MHz
GSM	880 – 920 MHz
GSM (DCS)	1710 – 1790 MHz
WCDMA, 3G, GSM (PCS), DECT	1920 – 2000 MHz
4G LTE	2100 MHz, 2600 MHz
Bluetooth, WiFi	2400 – 2480 MHz
WiMAX / 5G	3000 – 7000 MHz

Signal Strength Bar

The vertical LED bar reads from –60 dBm (no signal) up to +10 dBm (critical proximity). As you approach a transmitting device, more segments illuminate and the ALARM indicator triggers once the reading crosses your set threshold.

3.2 Magnetic Detection Mode

Magnetic Detection Mode uses the gooseneck probe to detect magnetic fields from wired transmitters or magnetically-mounted GPS trackers — devices that stay completely silent on RF between transmission bursts.

1. Attach the magnetic gooseneck probe to its port.
2. Short-press the MAG/RF button. The MAG indicator lights up to confirm.

3. Slowly sweep the probe along vehicle chassis, wheel wells, under seats, inside panels, and behind furniture. Keep the probe 0–5 cm from surfaces.
4. A sustained rise on the Signal Strength bar or a continuous alarm confirms a magnetic field source at that location.

NOTE: Metal surfaces and some electronics produce background magnetic fields. Confirm any reading by pulling the probe back and returning to verify the field is localized, not ambient. See Section 1.1 for a full vehicle sweep walkthrough.

Section 4 — Alarm Modes & Threshold Control

4.1 Alarm Modes (MODE Button)

Short-press the MODE button to cycle between the VS80's two alarm configurations:

Mode	Behavior	Best Used For
Alarm (Default)	Audible alarm; ALARM indicator lit	Open-area sweeps where sound is not a concern
Silent Mute	No audible tone; MUTE indicator lit, signal bar still active	Discreet sweeps in hotels, offices, or public spaces

4.2 The Threshold Knob

The rotary Threshold Knob next to the antenna ports is the most important control on the VS80 — mastering it is essential for effective sweeps. It has 20 adjustment steps.

- Clockwise: increases sensitivity, so the VS80 detects weaker or more distant signals.
- Counter-clockwise: decreases sensitivity, narrowing the detection zone for precise pinpointing.

Calibrating Threshold in a New Environment

1. Power on the VS80 outside the area you intend to sweep.
2. Turn the Threshold Knob fully clockwise (maximum sensitivity).
3. Watch the Signal Strength bar. Slowly back the knob counter-clockwise until the reading settles near the bottom of the scale with no alarm. This is your ambient baseline — the natural RF background of the location.
4. Re-enter the sweep zone. Any signal above the baseline will cause the bar to climb and eventually alarm — indicating a device that was not accounted for.

TIP: Always calibrate outside the suspect room. Calibrating inside might include a hidden bug's signal in the baseline, causing you to miss it entirely.

Section 5 — Product Overview

The FindaSpy VS80 Bug Hunter is an extended-range, digital RF detector that brings expert-level counter-surveillance to the palm of your hand. It's built to prevent illegal electronic spying from hidden threats like spy cameras, audio bugs, GPS trackers, and other wireless surveillance devices.

Nothing detects a wider frequency range all at once — the VS80 sweeps the full 1 MHz to 12 GHz spectrum on ANT1, while ANT2 dials in the precision to isolate WiFi, Bluetooth, and 5G-band threats hiding in dense RF environments.

5.1 Key Features



The FindaSpy VS80 — dual antennas, magnetic probe, and a full-range signal strength meter

- Detects all types of RF transmissions, including analog and digital, audio and video
- Full frequency range: 1 MHz – 12 GHz
- High sensitivity to 2G–5G mobile signals and wireless protocols (WiFi, Bluetooth, etc.)
- Dedicated 2.44 GHz – 5.39 GHz isolation antenna for cutting through crowded RF environments
- Adjustable alarm threshold — 20 sensitivity steps
- Magnetic Detection Mode for wired transmitters and magnetically-mounted GPS trackers
- Portable, reliable, and easy to use
- Rechargeable Li-Ion battery with up to 20 hours of operation
- Detects wireless hidden cameras, hidden microphones, and GPS/WiFi/Bluetooth sources

5.2 What Is In the Box

Item	Notes
VS80 Main Unit	1
ANT1 / ANT2 Antennas	2 — wideband (1 MHz–12 GHz) and isolation (2.44–5.39 GHz)
Magnetic Gooseneck Antenna/Probe	1 — for magnetic field detection mode

Item	Notes
USB Type-C Charging Cable	1
Operation Manual	1 — this document

NOTE: If any items are missing from your package, contact FindaSpy.com support before operating the device.

Section 6 — Hardware Layout & Controls

The VS80 is designed for single-handed operation. The vertical LED bar on the front face serves as the real-time signal strength meter. All control buttons and the threshold knob sit above and beside it.



The VS80's front panel: dual antennas, magnetic probe, threshold knob, and full control layout

6.1 Component Reference

Component	Location	Function
ANT1 Port	Top-left	Connect the wideband omni-directional antenna (1 MHz – 12 GHz).
ANT2 Port	Top-center-left	Connect the isolation antenna (2.44 GHz – 5.39 GHz).
Magnetic Probe Port (BNC)	Top-center-right	Connect the magnetic gooseneck probe for Magnetic Detection Mode.
Threshold Knob	Top-right, rotary dial	Adjusts detection sensitivity in 20 steps. Clockwise = more sensitive.
Signal Strength Bar	Front face, left side	Real-time signal reading from -60 dBm to +10 dBm.
ANT1 / ANT2 Button	Upper-left button	Toggles which antenna is active. Indicator LED shows current selection.
MAG / RF Button	Upper-right button	Toggles between RF Detection Mode and Magnetic

Component	Location	Function
		Detection Mode.
MODE Button	Center-right button	Cycles alarm modes: Alarm → Silent Mute.
ALARM Indicator	Center LED	Lights when the signal crosses your set threshold.
MUTE Indicator	Center LED	Lights when Silent Mute mode is active.
POWER Button	Lower-left	Main power switch. Push to toggle power on/off.
BATT Indicator	Lower-left, above power button	Green = adequate charge. Red = low battery, charge required.
USB Type-C Port	Side of body	Charging port. Use supplied cable with 5V USB source only.

Section 7 — Getting Started

7.1 Charging the Device

1. Connect the supplied Type-C cable to the charging port.
2. Connect the other end to a 5V USB charger or power bank.
3. The BATT indicator flashes during charging.
4. When fully charged, the BATT indicator turns solid green. Allow approximately 4 hours from empty.
5. Disconnect the cable once fully charged.

TIP: Fully charge the VS80 before first use. A complete charge provides up to 20 hours of continuous operation.

7.2 Battery Status

BATT Indicator	Battery Level	Action
Green (solid)	Adequate	Operate normally.
Red (solid)	Low — needs charge	Recharge before use to avoid shutdown mid-sweep.
Red (flashing)	Charging in progress	Device is connected to charger.

7.3 Powering On and Off

- Power ON: Push the POWER button. The device powers on and enters RF Detection Mode with ANT1 active by default.
- Power OFF: Push the POWER button again.

7.4 Attaching Antennas

1. Screw ANT1 (wideband) onto its port clockwise until hand-tight.
2. Screw ANT2 (isolation) onto its port clockwise until hand-tight.
3. Connect the magnetic gooseneck probe to the BNC port for Magnetic Detection Mode.
4. To swap antennas: power off the device first, remove the current antenna counter-clockwise, attach the replacement, then power on.

NOTE: Only one antenna or probe is active at a time. Use the ANT1/ANT2 button to select which RF antenna is live, and the MAG/RF button to switch to the magnetic probe.

Section 8 — Technical Specifications

Specification	Factory Value
RF Detection Range	1 MHz – 12 GHz
Isolation Antenna Range (ANT2)	2.44 GHz – 5.39 GHz
Probe Dynamic Range	> 79 dB
Detection Sensitivity	≤ 0.03 mV
Battery	Rechargeable Li-Ion, 2000 mAh @ 3.7V
Continuous Operation	Up to 20 hours
Full Charge Time	~4 hours
Charging Port	USB Type-C
Threshold Settings	20 steps
Working Modes	Alarm, Silent Mute
Operating Temperature	14°F – 113°F
Working Current	60 – 110 mA
Chassis Material	Metal
Weight	220 g
Dimensions (W × H × D)	2.2 cm × 7.5 cm × 11.5 cm
CDMA	824 – 849 MHz
GSM	880 – 920 MHz
GSM (DCS)	1710 – 1790 MHz
WCDMA, 3G, GSM (PCS), DECT	1920 – 2000 MHz
4G LTE	2100 MHz, 2600 MHz
Bluetooth, WiFi	2400 – 2480 MHz
WiMAX / 5G	3000 – 7000 MHz

Section 9 — Troubleshooting

Problem	Likely Cause	Solution
Device will not power on	Battery depleted	Charge for at least 30 minutes before retrying.
Alarm sounds constantly	Threshold too high	Reduce threshold counter-clockwise. Recalibrate outside (Phase 2).
No alert near known device	Threshold too low, wrong antenna, or wrong mode	Increase threshold. Confirm RF mode. Try switching between ANT1 and ANT2.
Magnetic probe no response	Wrong mode or probe not seated	Confirm MAG indicator is lit. Reseat the gooseneck probe.
Device not charging	Cable or port issue	Try a different Type-C cable. Inspect port for debris. Use a 5V source.
Weak or unstable reading in busy areas	RF noise from legitimate WiFi/Bluetooth	Switch to ANT2 to isolate the 2.44–5.39 GHz band and cut through the clutter.
Intermittent / inconsistent readings	Device transmitting in bursts	Sweep multiple times over 5–10 minutes. Motion-activated devices only transmit when triggered.

Section 10 — Warranty & Support

10.1 Warranty Coverage

FindaSpy.com provides a 12-month limited warranty from the date of purchase against manufacturing defects and component failures under normal use.

- Covered: internal component failures, signal bar defects, button malfunctions, charging port defects under normal use.
- Not covered: physical damage from drops or liquid exposure, unauthorized modifications, cosmetic wear, or damage from use of non-approved accessories.
- Proof of purchase required for all warranty claims.

10.2 Contact Support

Channel	Details
Website	FindaSpy.com
Email Support	RipLee@FindaSpy.com
Phone Support	(321) 342-0040 — ask for Spy Master Rip Lee
Warranty Claims	Include proof of purchase, device serial number (base of unit), and description of fault

NOTE: When contacting support, have ready: your proof of purchase date, device serial number, and a clear description of the issue.

Quick Reference Card

Action	How To
Power On / Off	Push the POWER button
Switch ANT1 ↔ ANT2	Short-press the ANT1/ANT2 button
Switch RF ↔ Magnetic Mode	Short-press the MAG/RF button
Cycle Alarm Mode	Short-press the MODE button
Increase Sensitivity	Turn Threshold Knob clockwise
Decrease / Pinpoint	Turn Threshold Knob counter-clockwise
Check Battery	Check BATT indicator: green = good, red = charge needed

Important Safety Notices

- Do not expose to temperatures outside 14–113°F.
- Not waterproof. Keep away from rain, liquids, and high humidity.
- Use only the supplied Type-C cable and a standard 5V USB source for charging.
- Do not disassemble. Contact FindaSpy.com support for any service needs.
- Keep out of reach of children under 12.



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