

PocketHound-Pro Contraband Cellular Detector

User Manual Version 1.3



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FROM POKKETHOUND TO POKKETHOUND-PRO

A PROVEN LEGACY, REDESIGNED FOR FASTER FIELD OPERATION

The original PocketHound helped establish a simple, handheld approach to detecting nearby cellular activity.

PocketHound-Pro carries that mission forward with a modern interface designed to put the settings and signal information operators need directly in their hands.



**POPULAR
SCIENCE**
BEST OF WHAT'S NEW
2012

PocketHound was named one of Popular Science's Best of What's New in 2012.

**POCKETHOUND
(ORIGINAL)**



Simple five-LED
signal indication.

EVOLVED
FOR BETTER
FIELD
PERFORMANCE

POCKETHOUND-PRO

(NEW GENERATION)



Full-color touchscreen with
clear signal and measurement
information.

THE EVOLUTION: KEY IMPROVEMENTS THAT MATTER

ORIGINAL POKKETHOUND



POCKETHOUND-PRO



COLOR TOUCH SCREEN

Five blue LEDs indicated
signal strength.



FULL-COLOR TOUCH SCREEN

A full-color touchscreen presents
signal strength and measurement
information in a much clearer
visual format.



IMPROVED, INTEGRATED ANTENNA

Original internal antenna
design provided good
performance.



IMPROVED, INTEGRATED WIDEBAND ANTENNA

Enhanced wideband antenna
design increases sensitivity
across more frequencies for
stronger detection performance.



LONGER FIELD OPERATION

Minimum 2 hours of internal
battery runtime.
(2 AAA batteries)



ALL-DAY RUNTIME

Rechargeable internal battery
delivers extended runtime for
all-day operations. Fast USB-C
charging keeps you ready.
(USB-C cable included)

USE CASES

PocketHound-Pro is a powerful tool for maintaining security, integrity and compliance in any environment where unauthorized cellular devices are prohibited.

USE CASE #1: Catching Classroom Cheaters



Ensure test integrity by detecting hidden cell phones that could be used to cheat during exams. Quickly scan the room before, during or after tests to identify unauthorized devices.

USE CASE #2: Detecting Contraband Cell Phones



Identify contraband cell phones in correctional facilities to prevent coordinated activity, intimidation and other security threats.

USE CASE #3: Detecting Cell Phone Activity in No Wireless Areas



Verify compliance in areas where no wireless activity should exist. Detect any active cell phones that indicate policy violations or potential security breaches.

Introduction

PocketHound-Pro scans all active, nearby cellular (voice, text and data) devices and displays signal strength of the strongest one. Typical detection range is about 150 feet line of sight from the unit. Because all cellular phones emit a beacon while powered on in standby mode (autonomous registration), PocketHound-Pro can detect those devices even if they are not actively being used. However, since such measurements are so infrequent, identifying them can be very challenging. We recommend using the watermark feature to assist in this.

Unboxing

PocketHound-Pro ships with a USB-C cable, AC adapter, touchscreen stylus and hard carrying case.



Dimensions & Weight

PocketHound-Pro shipment weighs 4 pounds (1.8 kg) in a 10" x 8.5" x 2" (25 cm x 21 cm x 5 cm) box.

Powering Up/Down Your Unit

PocketHound-Pro only has one physical button on the front of unit. Press this white button to power up and hold it down for 3 seconds to power down.

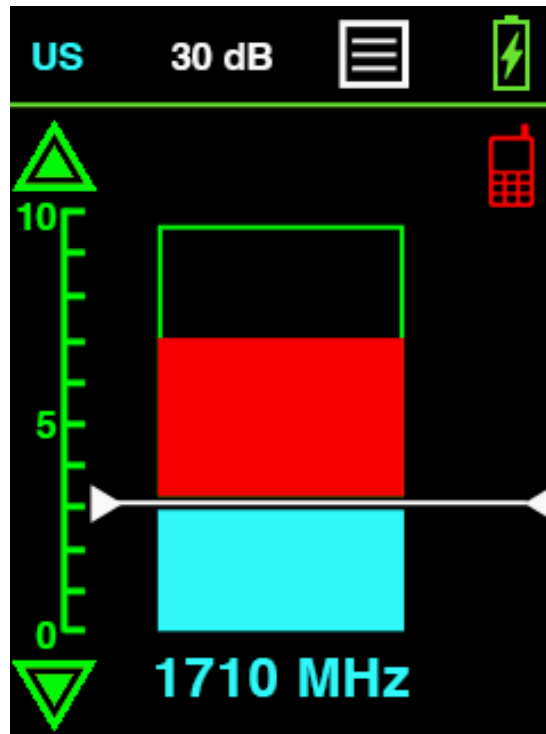
Charging Your Unit

PocketHound-Pro ships with a standard USB-C cable and power adapter. Charging takes approximately 4-5 hours. PocketHound-Pro runs approximately 2-3 hours from a full charge. PocketHound-Pro may be operated while it is charging but this is not recommended for regular use. If runtime is noticeably short after a full charge, you may need to manually calibrate the battery. Contact BVS support for more details.

Operation

PocketHound-Pro chooses the strongest cell phone signal nearby and "locks" onto that phone as it continues to scan the remaining RF bands. As the signal strength increases (or you approach the signal source), PocketHound-Pro will vibrate and beep more frequently. If you are using PocketHound-Pro in a "noisy" RF environment, try raising the threshold level to decrease the amount of detection triggers and vibrations. If you are not detecting anything, try lowering the ATTENUATION in the OPTIONS menu. You should see a blue bar on the left rise as you lower the attenuation further. Always start measurements with attenuation set at 0 dBm. For more information on typical detection ranges and environments, see included PocketHound-Pro data sheet or consult your BVS sales engineer.





Main Measurement Screen

PocketHound-Pro scans all active nearby cellular devices but only displays the strongest signal. As the user moves closer or further from various active devices, the frequency will change to indicate the strongest (sometimes the closest one but not always) device detected.

US - i Displays current country code of cellular bands being scanned. Navigate through main menu to select your country.

30 dB Current attenuation displayed on scale from 0 to 30 dB.

 Main menu allows users to select country, check battery health, get more information about their PocketHound-Pro or navigate to further options including alert, attenuation and watermark settings.

  Displays current capacity of internal battery system or if unit is currently being charged. Internal battery lasts 2-3 hours depending upon amount of nearby wireless activity

 Adjust current threshold higher on a scale from 0-10. This typically results in less cellular devices detected and subsequent alerts.

 Adjust current threshold lower on a scale from 0-10. This typically results in more cellular devices detected and subsequent alerts.



Watermark shows highest signal strength since watermark was last reset. This feature can assist in identifying infrequent signal measurements that can occur when the operator is not actively monitoring the unit. Watermark options can be changed by navigating to the main menu



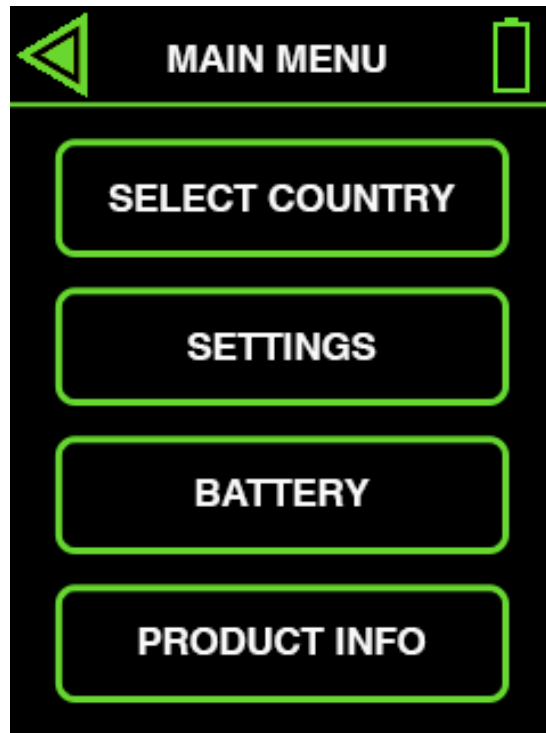
Threshold bar adjusts on a scale from 0-10 using the up and down arrows. The higher the bar is set, the less alerts will trigger. The lower the bar is set, the more alerts will trigger.



Indicates a cellular device is currently being detected and breaking the current threshold setting.

1710 MHz

Frequency of the current cellular device being detected



Main Menu Options

PockeHound-Pro Main Menu screen can be reached from nearly any other screen by touching the rectangular icon with three lines. This screen provides many adjustments as well as the unit's information and battery health.



Use back button at anytime to navigate back to previous menu.

SELECT COUNTRY allows users to set the region in which they operate PockeHound-Pro

OPTIONS allows users access to a variety of settings in the unit

BATTERY allows users to see current battery capacity and health

PRODUCT INFO displays the unit's firmware so that users can stay up to date



Select Country

Touch the select country button to choose your country of operation. Before making any measurements with the PocketHound-Pro, be sure to verify the country setting. The main measurement screen displays the current country setting at the top left of the screen. If you do not see the country code of the country you are currently operating your PocketHound-Pro, you should select your country so that PocketHound-Pro is scanning for the correct frequencies. Check with your region's carriers to determine all of the frequency bands being broadcast in your region.

PocketHound-Pro country selection supports the following regions:

UNITED STATES

US – iDEN (includes all US bands except for iDEN public safety band)

US + FIRSTNET (includes all US bands including FIRSTNET public safety band)

EUROPE

CANADA

AUSTRALIA

NEW ZEALAND

ISRAEL

SWEDEN

BRAZIL

JAPAN

CHINA

CHILE

INDIA

PHILIPPINES

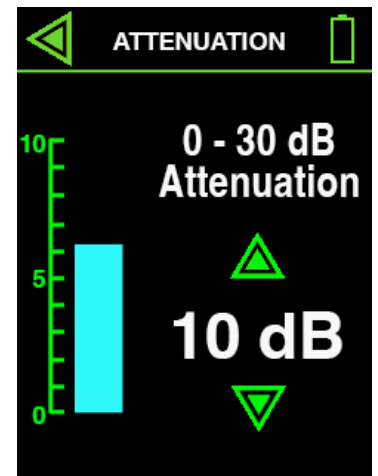
SOUTH KOREA



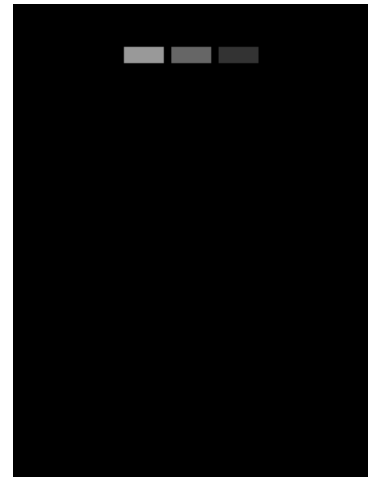
Settings Menu

PocketHound-Pro Options menu allow users to customize the way they measure cellular signal strength to best match their environment and workflow.

ATTENUATION navigates to a screen allowing users to adjust attenuation on a scale from 0 to 30 dB. This screen also includes a signal strength bar on the left side offering real time signal strength so you can adjust accordingly. As you lower attenuation (down arrow) to increase PocketHound-Pro's range, you can see the signal strength bar on the left side move up. Conversely, if your PocketHound-Pro is triggering alerts too much due to a noisy RF floor, raise attenuation (up arrow) and you will see the signal strength bar on the left lower. Current attenuation setting is always displayed at the top of the main measurement screen.



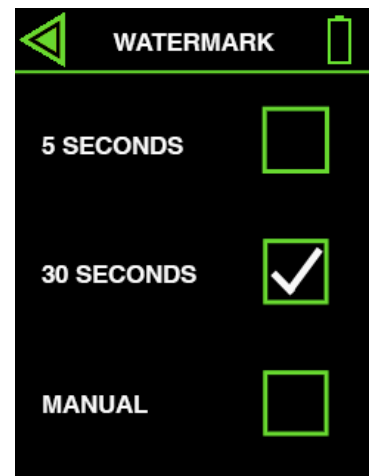
STEALTH MODE toggles this mode on or off immediately. Many users who wish to measure cellular activity without bringing attention to themselves use STEALTH MODE. The screen displays nothing except for a simple animation at the top of the screen so that the user knows the unit is currently scanning without seeing any measurements.



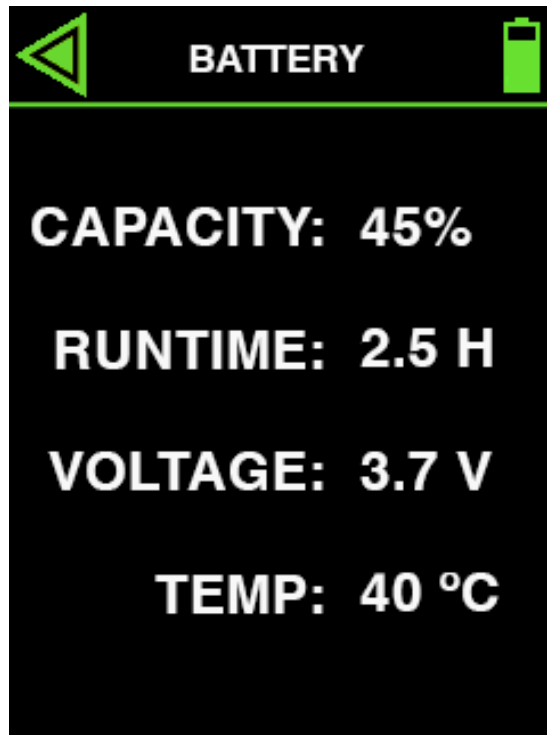
AUDIBLE ALERT toggles between an audio alert or no audio alert every time a cellular device breaks the signal strength threshold. This setting comes in handy when security personnel want to receive alerts within earshot of the PocketHound-Pro.

VIBRATING ALERT toggles between a vibrating alert or no vibrating alert every time a cellular device breaks the signal strength threshold. This setting comes in handy when security personnel want to covertly use PocketHound-Pro in their pockets.

WATERMARK navigates to a menu allowing users to customize their measurement time before the watermark automatically resets. Users can choose PocketHound-Pro to automatically reset the high watermark every 5 seconds, every 30 seconds or manually (never). In manual mode, users can easily reset the current watermark anytime by simply touching the watermark on the main measurement screen.



Watermark is especially useful in instances when the PocketHound-Pro operator cannot watch over the measurements for long periods of time but needs to verify that contraband devices are being used nearby. A typical setup involves PocketHound-Pro scanning unsupervised but powered in its charging cradle for a few hours or even overnight. If the watermark was set to manual mode, the user would see an indication of cellular activity while they were gone even if it was simply a cell phone in standby mode pinging a cellular base station for a second. In an environment where all cell phone activity is unauthorized or illegal, this would indicate that someone was in possession of a contraband phone.



Battery Screen

This screen indicates current battery capacity. If you are experiencing noticeably shorter run times for your PocketHound-Pro, navigate to this screen and follow the instructions. If battery issues persist, contact BVS support at 732-548-3737 or support@bvsystems.com.



Product Info/Splash Screen

This screen displays the current firmware and serial number of your PocketHound-Pro unit. Visit www.bvsystems.com to check for firmware updates and follow instructions from there. If you are contacting sales or support with any questions, navigate to this screen to verify your serial number.

Thank you for your purchase, we look forward to supporting you and your team.

Customer Support

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