# **SeeHawk<sup>™</sup> Monitor**

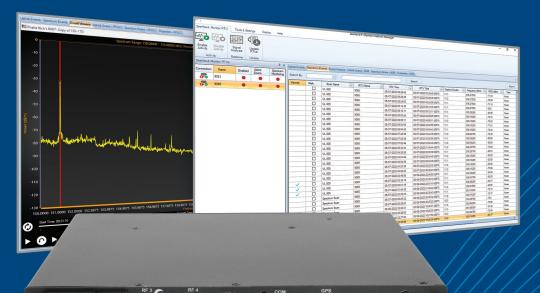












COMING SOON!

Monitor 4G/5G
network downlink
performance

## SPECTRUM MONITORING FOR CRITICAL COMMUNICATIONS

- Monitor RF spectrum for noise and interference
- Detect and characterize service-impacting issues
- Real-time spectrum analyzer

## AUTOMATED IN-BUILDING UPLINK TESTING

- Enhances the PCTEL® Public Safety Network Testing Solution
- Grid-based coverage testing for local code compliance
- Network commissioning and FCC compliance testing





## **One System - Two Applications**

### SPECTRUM MONITORING

Save time and improve network quality by immediately detecting interference issues and captured spectrum data with SeeHawk™ Monitor.

- Continuously monitor spectrum across multiple radio sites
- Rapidly detect under-detected service impacting problems
- Characterize the potential source of the problem
- Troubleshoot with real-time spectrum analysis
- Easily manage Remote Test Units (RTUs) from one software platform

### **How Spectrum Monitoring Works**



## (1) (

### **CONFIGURE**

User configures Remote Test Unit (RTU) monitoring, including noise thresholds and other parameters in the SeeHawk Monitor Platform Manager software





### **MEASURE**

RTU located at site detects spectrum anomaly on the network (noise floor rise, intermittent spike, etc.), records and sends event data to Platform Manager via the cloud





#### **NOTIFY**

Platform Manager notifies the user of new events via email





### **REPLAY**

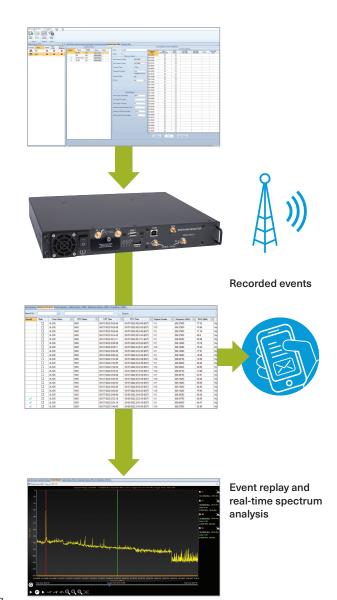
User replays event in Platform Manager with spectrum analyzer for analysis





### **INVESTIGATE**

Real-time spectrum analysis aids in identifying ongoing issues



## **AUTOMATED IN-BUILDING UPLINK TESTING**

SeeHawk<sup>™</sup> Monitor's uplink testing feature makes it easy to ensure in-building systems meet critical communications coverage requirements and are commissioned correctly to avoid interference with the outdoor radio network.

- Automate two types of tests: grid-based coverage and in-building system commissioning
- · Verify compliance with FCC regulations, NFPA and IFC model codes, and locally enforced codes
- Prevent interference with the outdoor network before it happens
- Objectively measure P25 uplink signal quality (BER and SINR) and channel power for any technology
- Easily schedule testing for multiple radio sites on the SeeHawk™ Monitor Platform Manager

## **How Uplink Testing Works**



## **PRFPARF**

Remotely schedule uplink testing on SeeHawk Monitor (no on-site support required)





### TAP & TALK TO TEST UPLINK

A single technician conducts on-site testing with the PCTEL® Public Safety Network Testing Solution and creates the uplink test signal with a test radio



Remote Test Unit at radio site automatically measures the uplink signal, records the results, and sends data back to Platform Manager



Authorized user exports uplink data from Platform Manager to the PCTEL Public Safety Network **Testing Solution** 





SeeHawk® Touch automatically synchronizes data from SeeHawk Monitor and generates reports

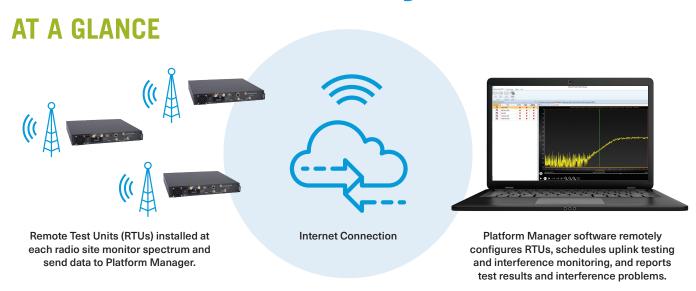




## **SHARE (OPTIONAL)**

Users share and track grid test results online with the SeeHawk™ Central cloud platform

## **SeeHawk™ Monitor System**



#### COMPLETE YOUR SOLUTION

Gain visibility and insight into your wireless network with real-world data and easy-to-use testing solutions.

#### Public Safety Network Testing Solution

Verify and document critical communications coverage



## SeeWave® Interference Locating System

Accelerate interference hunting for improved network performance



#### CW Transmitter (OP712) 23.5 MHz - 6 GHz

Portable CW transmitter for CW testing and commissioning tests



#### SeeHawk<sup>™</sup> Central

Cloud reporting and automation platform for grid-based in-building critical communications network testing



#### **Solving Complex Wireless Challenges**

PCTEL is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for over 25 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



PCTEL, Inc.

For more information on SeeHawk™ Monitor, contact your sales representative or visit

> pctel.com/monitor

T: +1 301 515 0036 | pctel.com | NASDAQ: PCTI