

Extended capabilities for  
technical surveillance  
countermeasures with



**thinkRF**

## Monitor

more locations for  
improved security

## Detect

devices designed to  
evade traditional sweeps

## Analyze

signals to quickly locate  
and remove devices



## Advanced Performance Beyond Traditional Sweeps

Technical surveillance countermeasures (TSCM) is a specialized industry that's growing in importance as governments, enterprises, and other organizations recognize the need to protect sensitive information and intellectual property from theft and espionage. TSCM is a critical component in maintaining physical security, controlling information, and keeping day-to-day operations safe from internal and external threats.

TSCM presents a unique challenge because users are often unsure what signals to look for, or if signals are present at all. And as malicious actors become more advanced and have access to better equipment, they are taking steps to avoid detection during traditional sweeps. With devices transmitting data intermittently, outside of regular working hours, and for shorter periods of time, it is now far more difficult to identify signals and locate the source.

## Applications and Requirements

TSCM users require a solution that is:

Capable of detecting low powered, intermittent, and unknown signals of interest

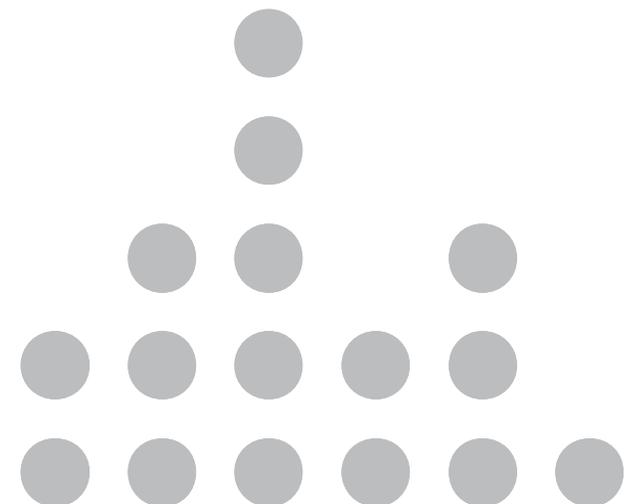
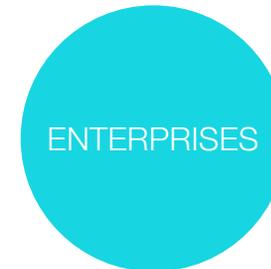
Remote deployable in complex signal environments such as large office buildings

Compact and portable to be used with traditional bug sweeping techniques

Able to pinpoint the location of a signal to find hidden devices

Easy to integrate with leading software applications for advanced capabilities

### DESIGNED FOR





## Keep Your Facilities Secure

ThinkRF Software-Defined Spectrum Analysis solutions are built on innovative and highly optimizable software-defined radio (SDR) technologies. This approach gives users a compact, remote deployable, and versatile solution that extends their capabilities beyond traditional bug sweeps to significantly improve the likelihood of detecting malicious listening devices or jammers.

These solutions have been designed for spectrum monitoring applications such as TSCM from the start. Fewer hardware components means units are compact, lightweight, and portable, while purpose built networking capabilities allow them to be deployed remotely for continuous and distributed monitoring. Software-defined spectrum analysis equipment can be easily upgraded without replacing the hardware itself, allowing for greater flexibility and extending the useful life of the equipment.



ThinkRF Software-Defined Spectrum Analysis solutions enable users to:

Detect short duration, low powered, or infrequent signals that are designed to evade traditional sweeps

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Protect valuable, confidential information from falling into the hands of competitors, rival governments, or individuals

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Maintain the physical security of facilities against intentional or inadvertent threats

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Integrate with leading TSCM software for improved signal detection

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## The ThinkRF R5500 Real-Time Spectrum Analyzer Features

Purpose built networking capabilities with standard GigE interface and streaming rates of 360 Mbit/s for in place and continuous monitoring capabilities

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Compact form factor (10.58" x 6.81" x 2.4") and PC-Driven for increased portability during traditional sweeps

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Real-time analysis across 27 GHz of frequency range, up to 100 MHz of instantaneous bandwidth and rapid sweep speeds up to 28 GHz/s

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## Multi-Vendor Capabilities for Improved Detection

TSCM users can seamlessly integrate the ThinkRF R5500 analyzer with leading TSCM software, including the powerful Kestrel TSCM Professional Software from Professional Development TSCM Group Inc.

The combined solution features:

Intuitive, operator centric, and work-flow based graphical user interface (GUI) that's easy to use

Ability to display, search, and analyze any number of independent spectral range windows

Multiple receiver operation to deploy distributed or remote spectrum analyzers for continuous coverage

Sophisticated artificial intelligence to detect RF threats and categorize them by type and harmonic relationship

## ABOUT THINKRF

ThinkRF is the leader in software-defined spectrum analysis solutions that monitor, detect and analyze complex waveforms in today's rapidly evolving wireless landscape. Built on patented technology and quality by design principles, the ThinkRF platform offers greater versatility, better performance and additional capabilities for 5G, monitoring, signals intelligence (SIGINT), technical surveillance countermeasures (TSCM), and test and measurement applications. Aerospace and defense companies, spectrum regulators and wireless communications providers use the remotely deployable, PC-driven and easily-upgraded platform to replace traditional lab equipment for wireless spectrum analysis.

To learn more, please visit [thinkrf.com](https://thinkrf.com), or contact [sales@thinkrf.com](mailto:sales@thinkrf.com) to discuss your unique requirements.

