

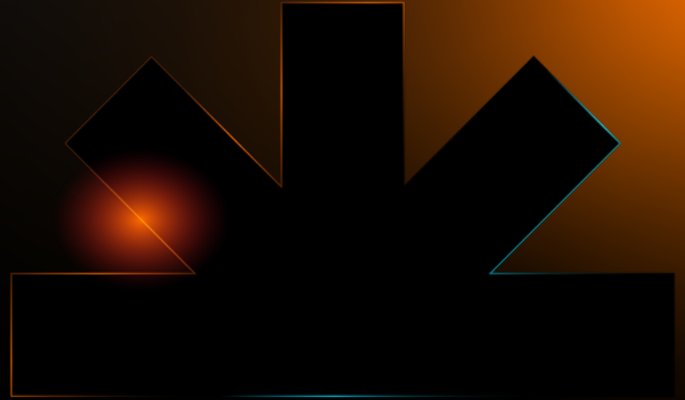


# Sentrycs Horizon

The widespread use of DIY drones poses significant global security challenges.

Affordable and easy to assemble, these drones utilize generic components and standard RF protocols, often employing techniques like frequency hopping to evade traditional detection methods. Many avoid transmitting their location, relying instead on video signals or other communication methods, complicating counter-drone efforts.

As DIY drone capabilities advance, the need for adaptive counter-drone solutions has never been more urgent.



## Sentrycs' Horizon: A Transformative Leap into Self-Learning Counter-Drone Technology

### A Future-Proof, Non-Library-Based Solution (Advanced Detection Capabilities)



Sentrycs' Horizon marks the first pivotal step in its evolution to become a self-learning counter-drone system. This groundbreaking technology currently focuses on the real-time detection of all types of transmitting drones, including those previously undetectable.

While its primary capability is detection, Sentrycs Horizon lays the foundation for a system that will ultimately address the entire DTIM cycle, including detecting, tracking, identifying, and mitigating drone threats even for devices previously not included in the system's library.

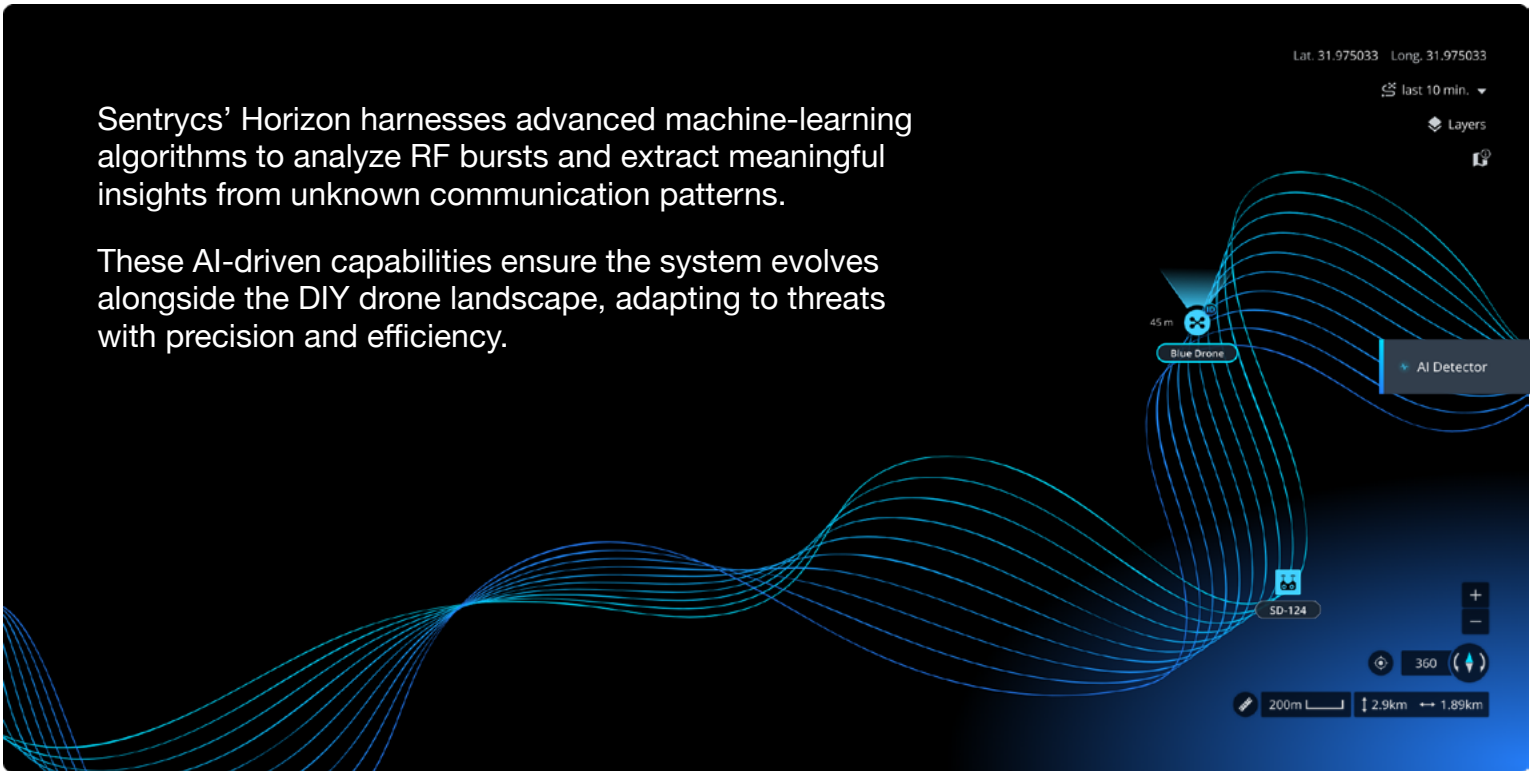
Sentrycs Horizon analyzes the RF environment, identifying signal bursts that match the characteristics of datalinks emitted by drones, remote controls, or other communication devices. When a match is found, the system generates a signal detection alert.

The system supports all transmission types. This unique capability transforms the system into a future-proof, non-library-based solution. Sentrycs Horizon provides an early-warning mechanism and actionable intelligence by detecting transmissions that might otherwise go unnoticed. This signal intelligence often serves as the first indication of a nearby threat, enabling further counter-drone actions such as radar scanning, jamming, or other mitigation techniques.

With an intuitive graphical user interface (GUI), operators can configure the system to scan specific frequency bands, ensuring seamless adaptability to rapidly changing scenarios. This flexibility makes it a vital tool in dynamic environments where quick adjustments are essential.

Sentrycs' Horizon harnesses advanced machine-learning algorithms to analyze RF bursts and extract meaningful insights from unknown communication patterns.

These AI-driven capabilities ensure the system evolves alongside the DIY drone landscape, adapting to threats with precision and efficiency.



## A glimpse into the Future

Sentrycs is actively advancing counter-drone technology to expand beyond current capabilities. Building on the AI detection capabilities, the system is being developed into a fully self-learning DTIM (Detection, Tracking, Identification, and Mitigation) engine. This next-generation solution will address all DIY drones, regardless of type or transmission technology, ensuring comprehensive protection and operational efficiency.

### Unique Capabilities:



Identifying new datalink protocols



Extracting & analyzing critical data



Updating the system's library in real time

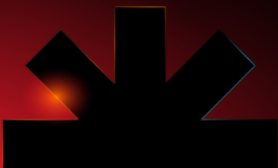


Consolidating communication protocols from the same drone



Enabling the operational ecosystem to adapt swiftly to emerging threats

With its forward-thinking approach and innovative use of artificial intelligence, Sentrycs' technology will support all communication protocols and autonomously add new ones. As it evolves, it will implement preventive measures, empowering users to make informed decisions and respond proactively to emerging threats.



There are many factors to consider when thinking of your counter-UAS solution. To discuss your situation in depth or if you would simply like more information on anything in this guide, please visit [www.sentrycs.com](http://www.sentrycs.com) or reach out: [info@sentrycs.com](mailto:info@sentrycs.com)