

SIGNAL DETECTORS

Pioneering solutions to identify
a signal's frequency, power,
& time characteristics

Well designed and constructed signal detectors ensure effective operations in a congested spectrum. They reliably find, capture, and help flag signals of interest (SOI). They help avoid false positives and missed signals. And they help increase the probability of intercept and geolocation accuracy in TDoA and 3D TDoA.

BENEFITS

- If a signal characteristic is unknown, time and frequency can still be measured and captured
- Find a true intelligence picture - never miss a signal
- Detect unknown signals - build signal libraries
- Backhaul optimization for TDoA – Pulse Detector retrieval needs to be 0.5-2 Mbps per Node (10MHz IBW I/Q data stream needs 400Mbps per Node)
- Detectors can be easily licensed per RFeye and run on Node 40-8, 100-8, 100-18, 100-40 and legacy Node 50-8



**If a signal is a fingerprint,
detectors are fingerprint scanners**

**Fine-tuned detectors can find
any given SOI characteristic**

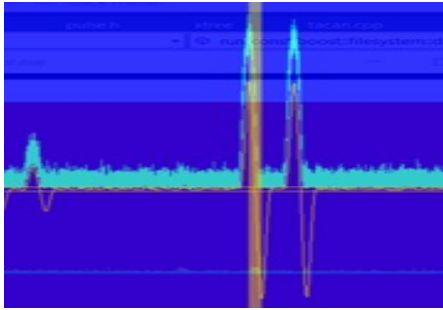


**Out-of-the-box detectors that
trigger based on preset signals**

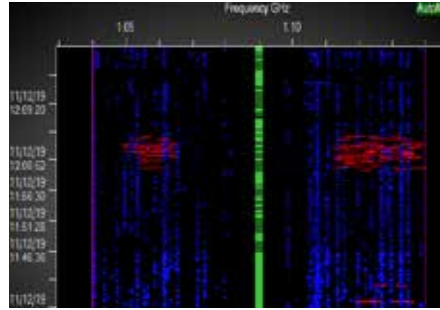
APPLICATIONS

- Direction Finding (DF)
- TDoA
- 3D TDoA
- AoA
- Real-time signal analysis
- Machine learning
- Build signal libraries
- Inform ISR

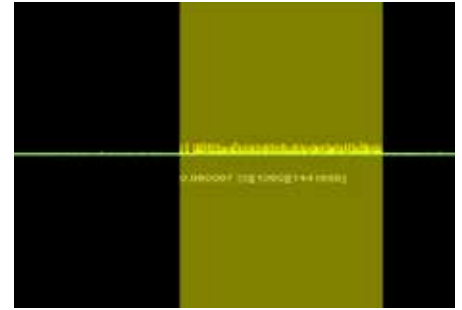
PRODUCT CODE	DETECTOR	DESCRIPTION	DECODE	CONFIGURABLE
AIR NAVIGATION				
EMB-OPD0003	ADS-B	ADS-B detector	Geolocation	No
EMB-OPD0002	TACAN	TACAN / DME detector	No	No
EMB-OPD0007	IFF-SSR	IFF-SSR (Mode A, C) detector	No	No
EMB-OPD0017	IFF-Mode4	IFF-Mode 4 detector	No	No
EMB-OPD0020	Air Defense Bundle	General Pulse, Energy, ADS-B, TACAN, IFF-SSR, I FF-Mode4	ADS-B	Pulse, Energy
MARINE BAND				
EMB-OPD0012	AIS	AIS detector	Geolocation	No
CONSUMER ELECTRONICS				
EMB-OPD0008	Wi-Fi	Wi-Fi detector	No	No
EMB-OPD0009	Bluetooth	Bluetooth detector	No	No
CONFIGURABLE PULSE DETECTORS				
EMB-OPD0005	General Pulse + Energy Detector	General pulses, fully configurable for user signals	No	Yes



TACAN/DME pulse detections



Air navigation band – 1090MHz



ADSB

CRFS SOFTWARE SUITE



You can use our software products individually or the whole software suite in accordance with your operating requirements. Talk to your CRFS account manager or contact support@crfs.com



RFeye® Mission Manager

Schedule and automate spectrum monitoring in multi-user environments



RFeye® Site

Real-time spectrum monitoring and geolocation of signals of interest



RFeye® DeepView

Forensic signal analysis with 100% probability of intercept (POI)



**EXTRAORDINARY
RF TECHNOLOGY**

CRFS is an RF technology specialist for the defense industry, national security agencies, and systems integration partners. We provide advanced capabilities for real-time spectrum monitoring, situational awareness, and electronic warfare support to help our customers understand and exploit the electromagnetic environment.



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