

eKraken

Wideband Multichannel Receiver

eKraken is a modular and scalable electronic intelligence (ELINT) solution that provides detection, identification/classification, and geolocation of wideband radar signals. eKraken builds on Mastodon's flagship Kraken hardware platform, resulting in a unit virtually incomparable in system size, weight, power consumption, and cost (SWaP-C) compared to other tactical ELINT systems.



High Data Throughput

A fast 2x40GbE ethernet interface provides means for raw sample (CDIF, BDIF) and PDW output streams. JICD 4.2 capability provides support for collaborative signals intelligence (SIGINT) operations.

Rugged & Tactical

eKraken's remarkably small size specifically lends itself for use in SWaP-C-constrained applications, while its robust feature set is valuable in a variety of mobile, air, maritime, and dismount operations. eKraken meets MIL-STD environmental requirements and can be powered off 5590 series batteries or a wide input range of 9 to 36 VDC with reverse polarity.

Multi-Mission Support

Designed to operate multiple mission sets simultaneously, the eKraken system supports both intercept and direction finding (DF) for traditional and frequency-modulated continuous wave (FMCW) radars. Eight channels of simultaneous receive from 2 GHz to 18 GHz support 500 MHz of instantaneous bandwidth for a total of four GHz of coverage.

For more information or to purchase, contact:

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High Speed

eKraken employs state-of-the-art system-on-chip processors as well as highly efficient asynchronous multi-core processors, enabling high-performance detection and processing of modern threat radars to include airborne surveillance and high elevation-based systems.

Intuitive User Interface

Using Mastodon's Ice Bucket application for Windows® PC or tablet, users have access to advanced programming and functionality in an easily navigable interface. Spectrum and waterfall displays provide real-time information and control of the full receiver bandwidth and sub-channel demodulators, as well as the ability to intuitively program or load search banks, signals of interest lists, and pass lists.

Future Proof

Mastodon continually invests in adding capabilities and enhancements to this hardware platform. Integrating customer feedback and technological advancements, eKraken will adapt as your mission requirements change.

A Comprehensive Electronic Intelligence Solution

Providing low RCS DF capabilities for eKraken and Kraken systems, Mastodon's exclusive ELINT DF Head is an integral part of radar location missions. ELINT is comprised of two 6-element cavity-backed spiral arrays, the first at 2 to 18GHz and the second at 18 to 40GHz. The 18 to 40 GHz array features integrated down-converters that translate the 18 to 40 GHz range to 2 to 18 GHz for low loss transmission over the coaxial connections to the receiver. Supporting intercept and DF simultaneously in a single low-profile head, this unit is easily portable and ruggedized for use in a multitude of operations and environments.



- 16" W x 8.75" H
- 11.5 lbs (without cabling)

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Specifications

Number of Receivers	8
Receive Frequency Range	500 kHz – 18 GHz
Receive Modes	ELINT detection of conventional and modern radar waveforms
RX Frequency Resolution	10 Hz minimum
Antenna Connector	8 x SMA
Impedance	50 ohms
Input Voltage	9-36 VDC
Operating Temperature	-30 to 55 degrees (C)
Dimensions	7.4" W x 8.8" L x 3.9" D
Weight	~16 lbs w/battery

Part Number	Description	Includes
MD1017-0001-01	eKraken Kit	eKraken, ELINT DF antenna, and associated accessories/cables

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