

# Kraken

## Multichannel Receiver



### Intuitive User Interface

Spectrum and waterfall displays provide real-time display and control of the full receiver bandwidth, as well as the sub-channel demodulators, and the ability to intuitively program or load search banks, signals of interest lists, and pass lists.

### High Speed

- Embedded FPGAs remove the need for PC processing
- Gigabit ethernet and PCI Express high-speed data interfaces

### Future Proof

- SDR architecture allows for field software upgrades to enhance capability
- Modular mechanical design with easily removable slots allows for field maintenance and hardware upgrades

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## Versatile WB Scan & Direction Finding

- Eight channels of simultaneous receive from 2MHz to 6GHz
- Each channel supports 50 MHz instantaneous bandwidth
- Configurable for phase-coherent or independent frequency operation, enabling direction finding capabilities
- Supports four separate direction finding heads simultaneously, one for each slot

## Rugged & Tactical

- Designed for balanced battery life, size, weight, and power (SWaP), and performance
- Meets MIL-STD environmental requirements
- Can be powered off 5590 series batteries or wide input range of 9 – 36 VDC with reverse polarity

## Wideband Record Option

- High-speed record with tactical storage drive that connects directly to SATA port for 100MHz of WB recording or 50MHz of record via USB 3.0 on front panel

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## Specifications

Number of Receivers	8
Simultaneous NB Demodulators Per Slot	8
Receive Frequency Range	2 MHz – 6 GHz
Receive Modes	WFM, NFM, SFM, WAM, AM, NAM, USB, LSB, CW, DMR, APCO 25, NXDN, LTE, CDMA, WCDMA, GSM, WiFi, CUAS*
RX Frequency Resolution	10 Hz minimum
Transmit	All four slots Tx capable (2MHz – 6GHz) with option for internal or external PA
Antenna Connector	8 x SMA
Impedance	50 ohms
Input Voltage	9 – 36 VDC
Battery Life	12 hours
Operating Temperature	-30 to 55 degrees (C)
Dimensions	7.4 (W) x 8.8 (L) x 3.9 (D) (in)
Weight	15 lbs. (receiver & battery)
Chassis	Rugged machined metal

Part Number	Description	Includes
MD1001-0001-01	Kit, Kraken Standard Ground System	Flat Dark Earth Kraken, DF antenna, wideband record, pelican transport case, survey antennas, mounts and cables, ancillary power and data cables, rugged laptop
MD1001-0003-01	Kit, Kraken Standard Maritime System	Black Kraken, DF antenna (black), wideband record, pelican transport case, maritime survey antennas, mounts and cables, ancillary power and data cables, rugged laptop
MD1001-0006-01	Kit, Kraken Non-Standard Maritime System	Black Kraken, DF antenna (white), wideband record, pelican transport case, maritime survey antennas, mounts and cables, ancillary power and data cables, rugged laptop

\*indicates feature that is currently in development.

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