



# MASTODON

d e s i g n

## Beast

### Dismount Multi-Channel Receiver

#### Versatile WB Scan

- 2 Channels of simultaneous receive from 500KHz to 6GHz
- Each channel supports 80 MHz instantaneous bandwidth
- Configurable for phase coherent or independent frequency operation enabling direction finding capabilities

#### Rugged & Tactical

- Designed for balanced battery life, SWaP, and performance
- Meets MIL-STD environmental requirements
- Can be powered off PRC-148, PRC-152 or 2590/5590 series batteries
- USB 3.0 external data interface for high speed data connectivity.

#### Wideband Record Option

- Ability to record and playback spectrum with optional SSD WB Record Device

\*indicates feature that is currently in development.

\*\*each Beast system includes DF antenna, EUD, and associated accessories/cables.



**Multi-Function:** The Beast performs survey, drive test, and surveillance of multiple push to talk and cellular protocols.

**Cost Effective & Future Proof:** The Beast's design utilizes the latest FPGA and processor technology to allow for rapid and efficient capability enhancements. Hardware architecture based on the Kraken Multi-Channel manpack ensures that capability enhancements on one system are available on the other.

**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. The Beast can be controlled any one of three ways:

#### LCD Front Panel

- Basic functionality and programming directly on the device multi-function alphanumeric keypad
- Backlit, daylight readable front panel allows for quick access to spectral and frequency information

#### Android Device or Windows PC

- Advanced programming and functionality with any COTS android device (ATAK) or Windows PC connected via USB
- Operator can play, pause, and rewind (DVR) any of the SOIs within the bandwidth of the receivers (up to 16) simultaneously

Beast Specifications	
Number of Receivers	2
Simultaneous NB Demodulators Per Slot	8
Receive Frequency Range	500 kHz - 6 GHz
Receive Modes	WFM, NFM, SFM, WAM, AM, NAM, USB, LSB, CW, DMR, P25, NXDN, LTE*, WCDMA*, CDMA*, GSM, WiFi*, CUAS
RX Frequency Resolution	10 Hz minimum
Antenna connector	2 x TNC
Impedance	50 ohms
Input Voltage	9-18 VDC (PRC-148/PRC-152 Battery)
Battery Life	8-11 hours
Operating Temperature	-30 to 55 degrees (C)
Dimensions	2.9 (W) x 9.3 (H) x 2.0 (D) (in) with battery
Weight	2.6 lbs. with battery
Chassis	Rugged Machined Metal

Part Number	Description	Includes
MD1007-0001-01	Beast , Standard	1x Beast system**
MD1007-0010-01	Kit, Beast	3x Beast systems**
MD1007-0011-01	Kit, Networked Beast	3x Beast systems*, 3 x TW-400 radios