The STINGER MB is a fully-integrated ground terminal system for long-range data links based upon L3 ROVER® technology. This system supports simultaneous transmit and receive capability in UHF, L, S, C and Ku frequency bands. It is the only tracking antenna system capable of fully realizing the multi-mission flexibility provided by the ROVER® 6 Transceiver and multi-band radio frequency equipment.

**System Key Features**

- Bidirectional video, voice and data
- Extends CDL range in excess of 100 nm¹
- Supports automatic telemetry tracking
- Supports L, S, C, Ku bands and UHF option
- Includes auto-acquisition feature
- Heavy-duty continuous rotating pedestal
- Built-in dual-GPS INS with auto-alignment
- Universal power 100 to 240 VAC
- Rear-panel local controller with touch screen
- Integrated with modem software for full control

**Product Description**

L3’s STINGER MB mobile bidirectional ground terminal is extremely rugged and easy to deploy, requiring no tools for setup or tear down. Two-man setup can be accomplished in less than 15 minutes. Once assembled, the terminal’s embedded dual GPS/INS automatically aligns the antenna tracker to true north (+/- 0.5˚). This eliminates the need for magnetic calibration or time consuming setup routines.

The user-friendly interface and familiar L3 software simplifies long distant ISR, networking and full-motion video, using L3’s proven modem technology. A single PC application is the only connection required to control the entire system. The system is backward-compatible with legacy L3 products and supports a wide range of L3’s current modems and power modules. STINGER MB is forward-compatible, allowing new modems and power modules to be integrated with minimal effort as they become available. The antenna system features a heavy-duty, continuously rotating pedestal, universal power from 100 VAC to 240 VAC and an Ethernet control interface with an integrated rear-panel touch screen controller used to turn, test and display antenna functionality.

Designed for air, surface and maritime use, L3’s ROVER® 6 family of transceivers provides real-time, full-motion video (FMV) and other data for situational awareness, targeting, battle damage assessment (BDA), surveillance, relay, convoy overwatch operations and other situations where eyes-on-target are required. Transceiver options for U.S. Government Type 1 encryption or exportable configurations are available. The ROVER® 6 Transceiver has added the DDL Raven® and emerging CDL waveforms to increase its interoperability with large airframes and virtually all UAVs and targeting pods. ROVER® 6 is able to receive in two different channels, in one or two different frequency bands, from a single data source. This frequency diversity provides link redundancy, robust reception and resiliency to platform shadowing, multi-path interference, line-of-sight blockages, RF interference and supports long range NET-T capabilities.
STINGER MB

Product Description (continued)

L3’s radio frequency equipment (RFE) is designed for airborne and surface operations as the signal amplifier between the transceiver and the antenna (for both transmit and receive paths) ensuring extended range performance, link diversity, blockage and interference mitigation. Our RFE features integrated heat exchangers with fans to assist in cooling and have all been designed to MIL-STD-810F environmental requirements. The minimum transmit output power is 10 W in all bands. Other L3 RFEs and amplifiers can be used, such as the RPM K10, RPM K40 and GaN amplifier.

Data contained within this document are summary in nature, addressing general capabilities and subject to change without notice at any time at L3 Technologies’ sole discretion.

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