

MRS-2000M

All Digital Man-Pack Receiving System



Overview

The latest generation MRS-2000M is an all-digital, ruggedized, transportable intelligence system for precise, 3-D situation awareness picture build-up of the battlefield, providing an "over-the-hill" view of the enemy while avoiding danger of exposure.

By bringing mission-critical information to the front, the MRS enables all armed forces to make the most of real-time information -while assuring greater accuracy and safety.

Used either as an integral system or an add-on to a UAS or C4I system, the MRS-2000M receives, processes and displays real-time video images and telemetry data arriving from a variety of airborne platforms and generates an intuitive & correlated image to map display with UAS & payload information vital to the operator in the field.

Main Applications

- Intelligence gathering
- C⁴I for ground and naval forces
- Artillery targeting and ranging
- Border surveillance
- Security for high-risk sites and sensitive facilities

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Main Features

- Portable man-pack, vehicular or RDT configuration
- Reception and display of real-time AV/UAS imagery and telemetry; adaptable to various image sources and data links
- Extraction of telemetry data to any user for Situation Picture
- Image processing and video enhancement capabilities
- Graphic overlays and frozen image storage facility
- Automatic target generation and artillery correction capabilities
- Optional Auto-Track antenna capabilities (RDT)
- Optimum Versatility: Multi-Mission Functionality; All Map Formats
- Can be coupled with Every Existing UAS and other Airborne Payloads

Technical Specifications

Communication

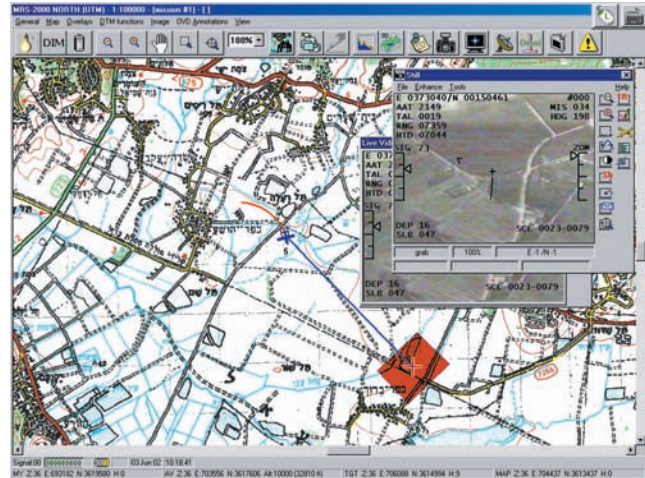
- Reception Band: C or S Band as well as L-Band options
- Antennae: Both integral planner Directional & Omni antennae
- Range:

	Reception Band	Omni Annt.	Direct. Annt.
1	C	8km	35km
2	L/S	12km	50Km

- Video input standards: RS-170A/NTSC/CCIR/PAL
- UAS Telemetry: Searcher, Hermes, Ranger, Pioneer and others may be ordered

Capabilities

- Map coverage –Standard formats including NIMA CADRG, TIFF 5 and other options
- Image Archive Capacity: Limited only by the Hard Disc capacity
- Video Archive Capacity: up to 30 minutes sessions – Limited only by the Hard Disc capacity.
- Imagery /Map Overlays: tactical symbols, text, lines graphics
- Data Dissemination (Optional)–Using internal propriety Communication Controller for Tactical Situation, Overlays, Frozen imagery and E-mails can be send over tactical Radios
- Operating Time on batteries: +3.5 Hours of continuous use



Environmental

- Operating temperature:-5°C to 50°C
- Storage temperature:-20°C to 60°C
- Shock &Vibration: Per Mil-Std 810D/E ground mobile
- Water Sealing: Rainproof IP65

External interfaces:

- Power input: 18-24VDC
- LAN: 10/100 BaseT TCP/IP connectivity.
- USB: 2 ports
- Composite Video In & Out

Physical dimensions

- Total weight: 12 Kg (System +harness)
- Tripod weight: 3 Kg