



communications
Communication Systems-West

Predator Remote Video Suite Receive-only

SATCOM Surface Terminals

The Predator UAV SATCOM Terminal receives reconnaissance data anywhere in the Satellite broadcast beam. This will greatly enhance the usefulness of Predator, providing valuable data to tactical commanders and users in the field. L-3 Communications' terminal, uses low-cost commercial off the shelf (COTS) components, including a personal computer, a satellite antenna, and RF electronics.

PRODUCT DESCRIPTION

The Predator Satellite Data Terminal (SDT) nominally consists of a commercial SATCOM antenna system and a terminal. The antenna system contains all the components necessary to receive, amplify, and convert the signal to an Intermediate Frequency (IF) feed to the terminal. The terminal, housed in a Personal Computer, contains the demodulator, demultiplexer, and decompression capability needed to output data. Data is available on the PC screen as either a video



image or a Synthetic Aperture Radar (SAR) Waterfall display, depending on the Predator's sensor output. The terminal automatically detects the imagery content and com-



pression mode and adjusts its output to ensure an accurate display. Electrical signal data is also available out of the PC terminal in the form of video (RS-170, for input to an external monitor or an annotation station), parallel 8-bit SAR data (for input to a SAR processor), and RS-422 serial telemetry data (for processing by an external Payload/Pilot Operating station).

KEY FEATURES AND BENEFITS

Features

- COTS Personal Computer Host
- Compatible with 2.4 or larger satellite antennas
- Video or SAR Waterfall Windowed Display on PC
- Electrical outputs for Video, SAR, and Telemetry

Benefits

- Low Cost, Compact and Versatile
- Customer may supply antenna. The SDT inputs 70 MHz IF
- Quick verification of reception without an external monitor or SAR processor
- Outputs for remote viewing or annotation

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SPECIFICATIONS

Predator Remote Video Suite - Receive-only

PHYSICAL CHARACTERISTICS

Antenna System:

Commercial 2.4m dish standard, options for larger apertures available, or customer may provide a 70 MHz IF feed from their own antenna

SPECIAL FEATURES

- Remote Video Suite (SATCOM)
- Data availability anywhere in Satellite beam
- Personal computer architecture - office and lab environments
- Industrial grade or military PCs - field applications
- Real-time video
- SAR output
- External telemetry port allows correlation of video/SAR with position, heading, altitude

PERFORMANCE CHARACTERISTICS

Input Power

- 115VAC, 60Hz

Terminal Compatibility

- Predator T1 return link data transmission format; adaptable for 2T, and ATC radio configurations

Video Output

- RS-170

Telemetry

- RS-422 Serial (38.4 Ku-band)

SAR

- 8-bit parallel interface to SAR processor (RS-422)

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For further information on Predator Satellite contact:

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