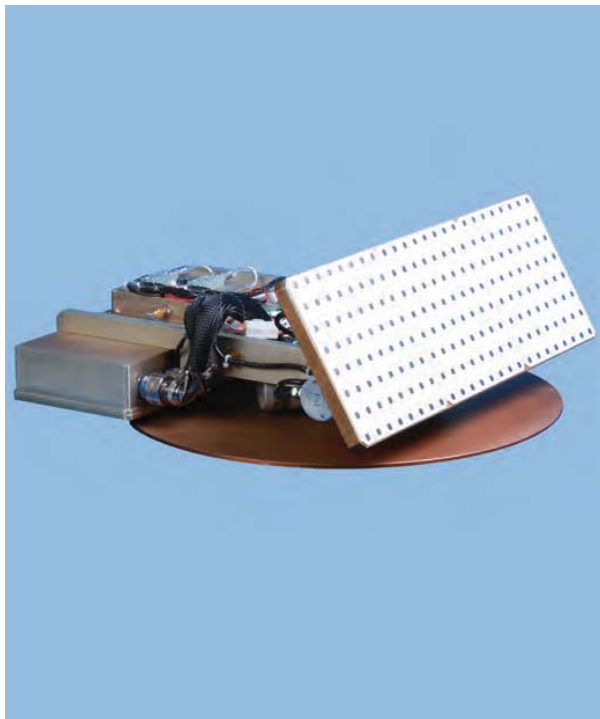




RVT-3100 Remote Video Terminal



STANDARD FEATURES:

- Low Profile (9 inches high)
- Remote Video Terminal for OSRVT
- High Gain & Large Instantaneous Bandwidth
- Ruggedized, High-Dynamic 2-Axis Positioner
- Built-In ACU, Servo & Power Supply
- Flexible Command & Status Interface
- Rugged & Lightweight – 15-min. Setup Time
- Microstrip Panel Antennas Available for L-, C- & Ku-Bands

SYSTEM OPTIONS:

- On-the-Move Operation for Extended-Range Data Collection
- Transmit Capabilities for 2-Way Communication Links
- Frequency Scalable to Other Operational Bands such as S and X
- Second Elevation Axis for 2-Band Configuration
- Adjustable Tripod Available for Ground Slope Variation
- Transit Cases

APPLICATIONS/PLATFORMS:

- Remote Video Terminal
- Medium-Range Ground Data Terminal (GDT)
- Fixed and COTM Operations
- Homeland Security/Border Surveillance, Data Relay
- Shadow 200, Hunter, Predator, Pioneer, Raven, ER/MP, Watchkeeper & Firescout Unmanned Air Systems

The RVT-3100 Remote Video Terminal is a new addition to the family of TECOM datalink products intended to serve military tactical units. The system features a ruggedized antenna-positioner assembly suitable for the harsh tactical environment. The flat panel array allows this system to provide high gain in a low-profile (9-inch height) configuration for Ku-Band Tactical Common Data Link (TCDL) capabilities.

The RVT-3100 antenna system includes integrated servo- and control-systems electronics, low-noise amplifiers, and radome. Setup time is less than 15 minutes, and the system weighs 25 lbs.

Optional upgrades for the RVT-3100 include other components such as diplexers, SSPAs, and multi-channel rotary joints so the system can provide 2-way communications between the ground and airborne system. The system also accommodates the integration of GPS, compass and inclinometer for Communication On The Move (COTM). The combination of small size, rapid deployment, high gain, large instantaneous bandwidth and dynamic capabilities directly benefit the tactical user by providing a scalable datalink for wideband line-of-site and beyond-line-of-site secure communication at high data rates.

Antenna Performance*	
Frequency L-Band C-Band (CONUS/OCONUS) Ku-Band	1710–1850 MHz 4.4–5.85 GHz 14.4–15.35 GHz
Aperture Gain (measured at LNA input) L-Band C-Band Ku-Band	+9 dBi (min) +13 dBi (min) +22 dBi (min)
Polarization L-Band C-Band Ku-Band	Linear, vertical Linear, vertical RHCP
Beamwidth (3dB): L-Band C-Band Ku-Band	75° EL / 25° AZ 36° EL / 12° AZ 10° EL / 3° AZ
Dynamic Capability Velocity Acceleration	30°/sec AZ, 60°/sec EL 60°/sec ²
Positioning Range Elevation Azimuth	-5° to +95° 360° (continuous)
Antenna Pointing Accuracy	0.15°
System Weight	25 lbs.
Size	9" height x 22.9" diameter
Communication Interface	RS-422 standard (other options: RS-232, RS-485, fiber optic, Ethernet)
Power Interface	10-30 VDC; 70W peak, 20 avg.

* Specifications subject to change

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