



VISLINK
Technologies



datasheet

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Mantis LT

Ultra-lightweight Satellite Antenna

The design of the highly portable, ultra-lightweight, Mantis LT satellite system allows rapid deployment.

The 90 or 120cm reflector, coupled with the lightweight design, make this the ideal solution for secure and non-secure satellite communications for a variety of applications.



Key Features

- Ku Band
- 90 or 120cm Reflector
- Man Portable Design
- Less than 5 minute Set-up time
- ITAR Free

Typical Applications

- Satellite News-gathering
- Secure Military Communications
- First on Scene Broadcast
- Emergency Services
- Disaster Recovery



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KU-Band

Tx Frequency Band:
• 13.75-14.5 GHz

Rx Frequency Band:
• 10.7-12.75 GHz

Polarization:
• Tx - Linear H/V
• Rx - Orthogonal to Tx

X-Polar:
• 30 dB

(90cm Version)

Tx Gain @ 14.125 GHz:
• 40.6 dBi

Typical G/T @ 11.7 GHz:
• 16.8 dB/K*
*Using SMW Q-PLL Type-C LNB.

(120cm Version)

Tx Gain @ 14.125 GHz:
• 43.1 dBi

Typical G/T @ 11.7 GHz:
• 19.3 dB/K*
*Using SMW Q-PLL type-C LNB.

Physical Specification

Transportability:
• One airline checkable case

Packing:
• Optional Rucksack or rugged carry case in one or two box solution depending on reflector size

Weight (90cm version):
• 10.5 kg (<23lbs) (without carry case)

(120 cm version):
• 14.5 kg (<31lbs) (without carry case)
• IATA compliant

Environmental Specification

Operating Temperature:
• -20°C to 60°C (-40°F to 140°F)

Storage Temperature:
• -40°C to 80°C (-40°F to 176°F)

Operating Altitude:
• 3000 m (9842 ft.)

Survival Altitude:
• 4500 m (14763 ft.)

Operating Wind Speed (No ballast):
• 25mph

Operating Wind Speed (With ballast):
• 45mph

Shock:
• MIL-810F Method 513.5 procedure IV

Vibration:
• MIL-810F Method 514.1 procedure I

Sand/Dust:
• DEF STAN 00-35, Pt 3, Iss 4, Test CL25

Water Ingress:
• DEF STAN 00-35, Pt 3, Iss 4, Test CL27