

# AVL TECHNOLOGIES

## MODEL 2460 Manual Tripod 2.4M Portable Troposcatter Antenna

Reflector	2.4 m, 9 piece Carbon Fiber
Optics	Offset, Prime Focus, 0.8 f/D
Feed	C-Band LP 2-port
Positioner Type	Ultra Lightweight Manual with Integral Base and Extending Stabilizer Legs
Drive System	Unique Azimuth Mechanism and Elevation ACME Screw Manual Actuators Allow Full Range of Motion for Both Coarse and Fine Adjustment Elevation over Azimuth
Mount Geometry	
Polarization	Manual Rotation of Feed



**Buy Now!**



### Mechanical

#### Travel

Azimuth		
Coarse		360° Continuous
Fine		±10°
Elevation		
Coarse		-5 – 90° (With Tropo Spacer)
Fine		-5 – 90° (With Tropo Spacer)
Polarization (Ku)		± 95°
Stowed Configuration		
Positioner, Boom, Struts		Positioner 37" X 18" X 9", 80 lbs. In One Transit Case: 60" X 36" X 26", 120 lbs. max 26" x 24" x 60", 60 lbs. Not including ballast required in center column. In One Transit Case: 30" X 27" X 63", 174 lbs. max Two Cases, 38" x 38" x 22", 120 lbs. each One Case, 43" x 28" x 21", 70 lbs.
Tripod		
Reflector		
Feed		
Set-up Time		Less than 15 minutes
RF Interface		
BUC Mounting		Feed Boom, Rear of Reflector, Or Remote
Coax		Two connectors at Amplifiers
Electrical Interface		Connectors at Amplifiers

### Environmental

#### Wind

Operational		
Without anchoring		25 mph
With anchoring		30 mph gusting to 45 mph
Survival (anchored)		80 mph in zenith (90° elevation) position
Pointing Loss in Operational Wind		
C-band Receive		0.8 dB typical, 2.0 dB max
Temperature		
Operational		-40° to 155° F (-40° to 68° C)
Survival		-60° to 160° F (-51° to 71° C)

---

## Electrical

### C-Band

Polarization

Frequency Range (GHz)

Gain (Midband) (dBi)

VSWR

Beamwidth (-3 dB)

Radiation Pattern Compliance

Ant Noise Temperature @ 20° EI,  
midband

Cross Pol Isolation, on-axis

Cross Pol Isolation, within pointing cone

Power Handling Capability

### Receive

Linear orthogonal

4.4 - 5.0

39.4

1.30:1

1.9°

1<sup>st</sup> sidelobe < -20dB, 2<sup>nd</sup> < -25dB

49° K

35 dB

28 dB standard

### Transmit

4.4 – 5.0

39.4

1.30:1

1.9°

1<sup>st</sup> sidelobe < -20dB, 2<sup>nd</sup> < -25dB

35 dB

30 dB standard

1000 watts per port

### Options

BUC/LNB mounting

Waveguide interconnect options

Wind Anchoring options – ground stakes, sand bags

Computer Assisted Pointing (CAP)



**Digisat International Inc.**  
4195 W. New Haven Ave., Suite 15  
Melbourne, FL 32904  
USA  
+1-321-676-5250  
Email: [sales@digisat.org](mailto:sales@digisat.org)  
<http://www.digisat.org>