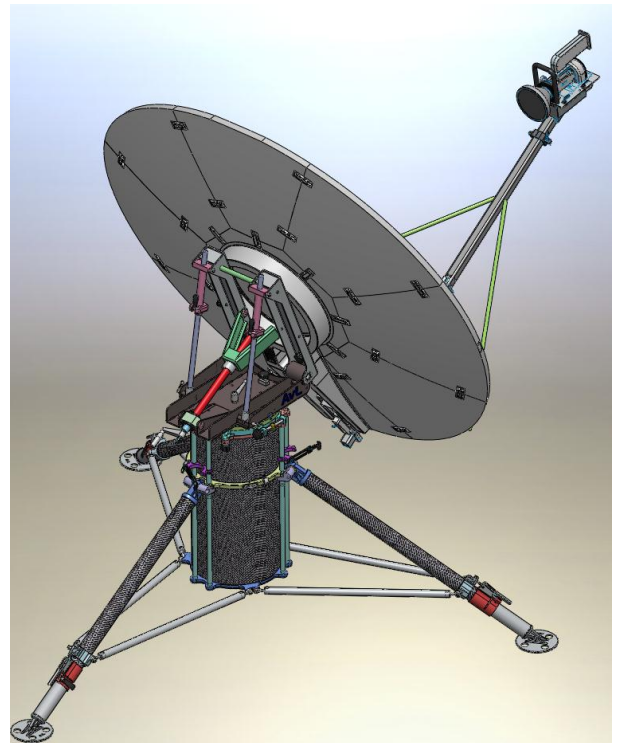


AvL TECHNOLOGIES

MODEL 2460 Manual Tripod 2.4M Portable Satcom 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	Azimuth Mechanism and Elevation ACME Screw Manual Actuators Allow Full Range of Motion for Both Coarse and Fine Adjustment
Mount Geometry	Elevation over Azimuth
Polarization	Manual Rotation of Feed



Mechanical

Travel

Azimuth	
Coarse	360° Continuous
Fine	±10°
Elevation	
Coarse	0 – 90°
Fine	0 – 90°
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
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Temperature

Operational	-40° to 155° F (-40° to 68° C)
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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

Receive

Linear orthogonal

4.4 - 5.0

39.4

1.30:1

1.9°

1st sidelobe < -20dB, 2nd < -25dB

49° K

Transmit

4.4 – 5.0

39.4

1.30:1

1.9°

1st sidelobe < -20dB, 2nd < -25dB

Cross Pol Isolation, on-axis

35 dB

Cross Pol Isolation, within pointing
cone

28 dB standard

35 dB

30 dB standard

Power Handling Capability

1000 watts per port

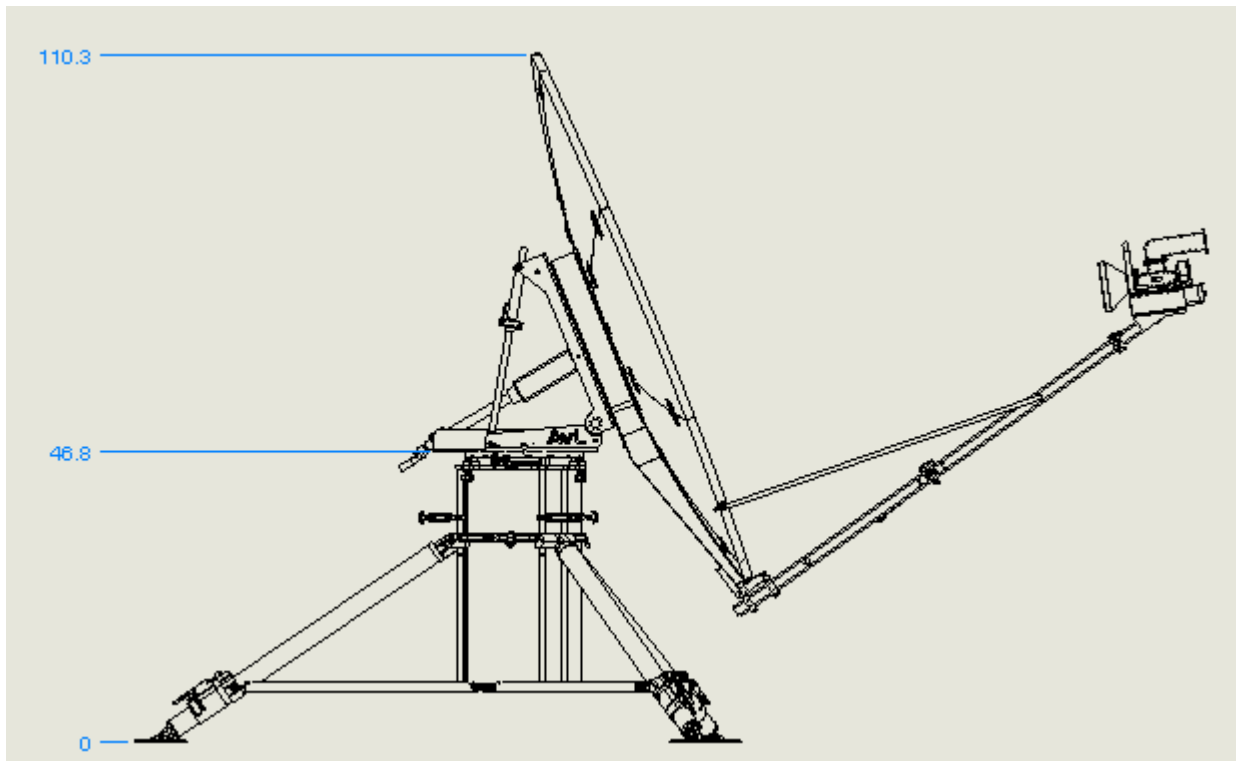
Options

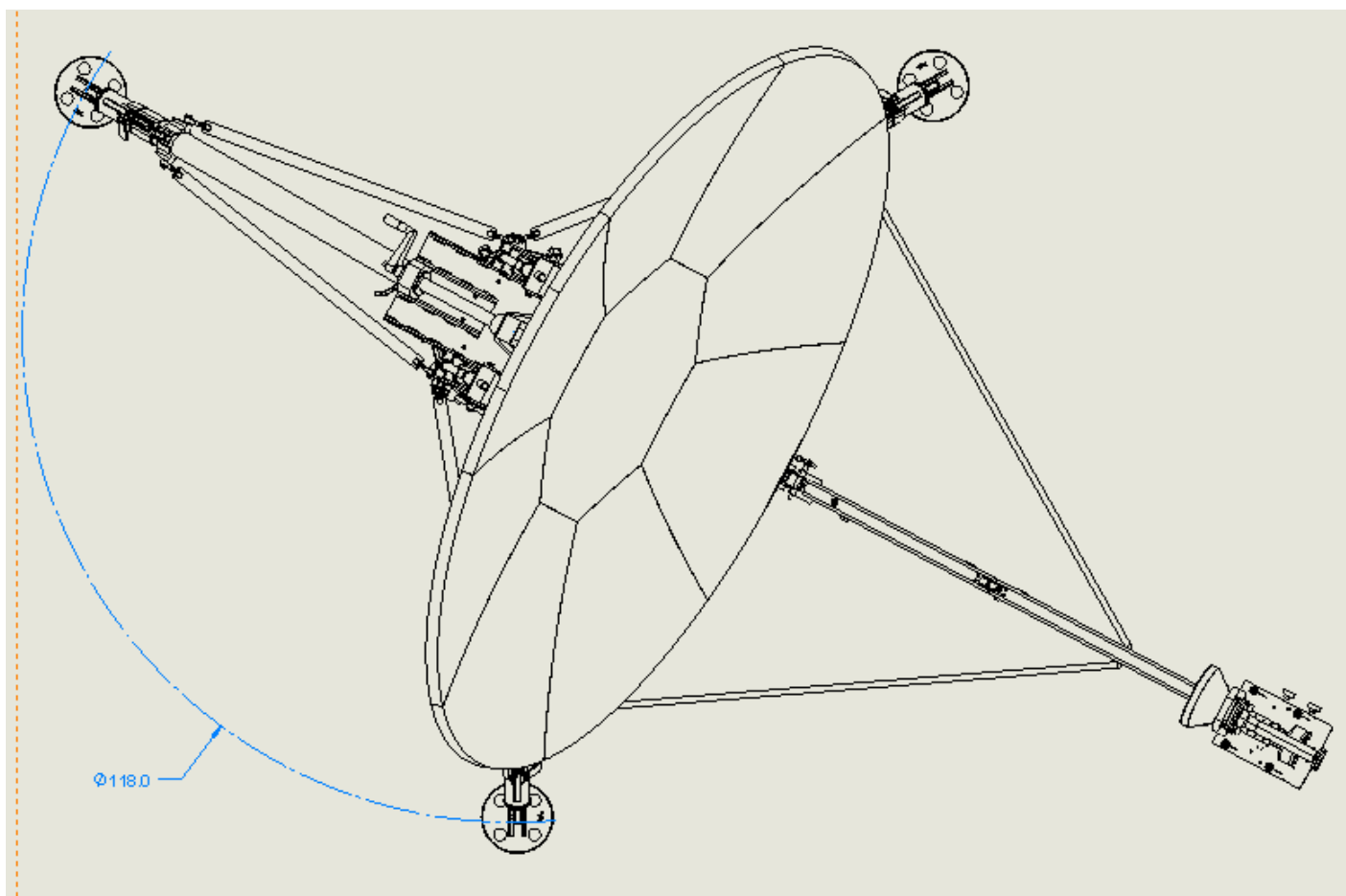
BUC/LNB mounting

Wind Anchoring options – ground stakes, sand bags

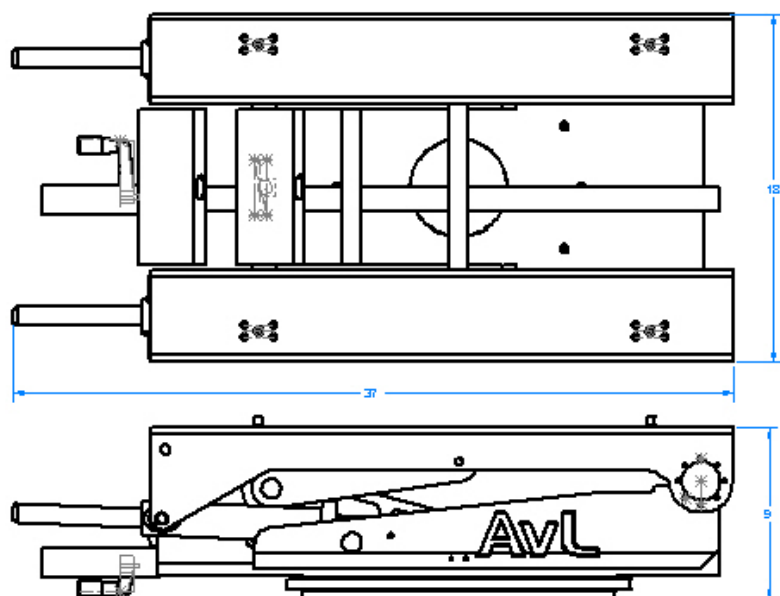
Waveguide interconnect
options

Computer Assisted Pointing (CAP)

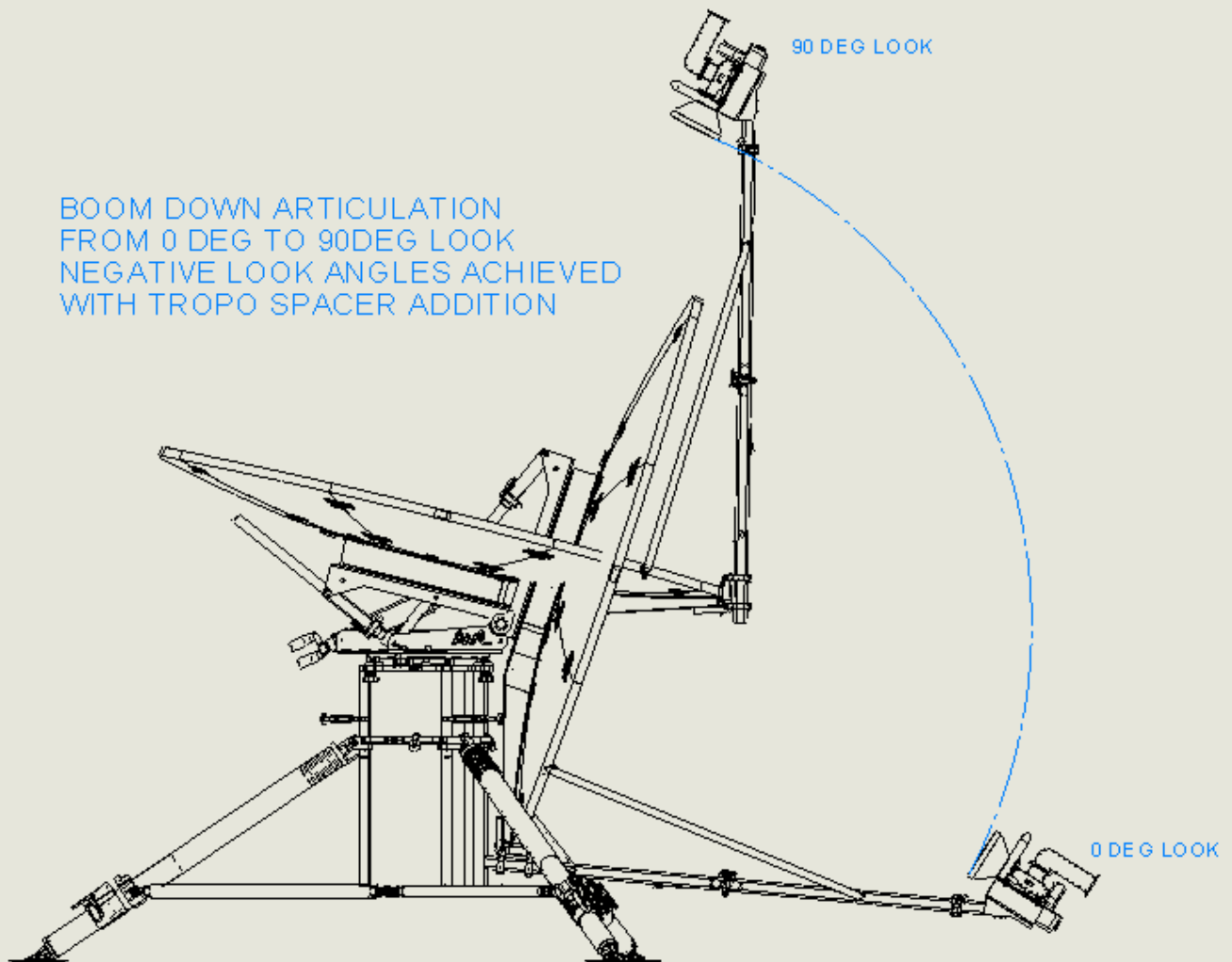




2.4M MANUAL POSITIONER STOWED



BOOM DOWN ARTICULATION
FROM 0 DEG TO 90DEG LOOK
NEGATIVE LOOK ANGLES ACHIEVED
WITH TROPO SPACER ADDITION



TRIPOD SIMPLY FOLDS UP
WITH NO LOOSE PARTS.
LEGS ARE HELD IN
POSITION WITH SNAP LOCK
AND STRAPS

