

AVL TECHNOLOGIES

MODEL 1260 Manual Fly Away 1.2M Ku-Band Portable Antenna



Reflector	1.2 m, 6 piece Carbon Fiber
Optics	Offset, Prime Focus, 0.8 f/D
Feed	2-Port Ku-Linear Polarization
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
Mount Geometry	Elevation over Azimuth
Polarization	Manual Rotation of Ku Feed

Mechanical

Travel

Azimuth		
Coarse		360° Continuous
Fine		360° Continuous
Elevation		
Coarse		+10 – 95°
Fine		+10 – 95°
Polarization (Ku)		± 95°
Stowed Configuration		
Positioner		Total weight: 23 lbs. 18.3" x 13.4" x 6.8"
Tripod		Total weight: 16.5 lbs 12.9" x 12.1" x 28.4"
Ku Antenna		Total weight: 53 lbs* *(includes: tripod, positioner, reflector, boom, Ku feed) Case Integration: Antenna fits into 2 Impact transport cases

Note: BUC and LNB are CFE

Set-up Time	Less than 5 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	20 mph
With anchoring	30 mph gusting to 45 mph
Survival (anchored)	80 mph in zenith (90° elevation) position

Pointing Loss in Wind

Ku-band Receive, Operational winds 0.8 dB typical, 2.0 dB max

Temperature

Operational -22° to 125° F (-30° to 52° C)
Survival -40° to 140° F (-40° to 60° C)

Ku-Band

Polarization
Frequency Range (GHz)
Gain (Midband) (dBi)
VSWR
Beamwidth (-3 dB)
Radiation Pattern Compliance
Ant Noise Temperature @ 20° EI, midband
G/T with 50° LNB, midband, clear horizon
Cross Pol Isolation, on-axis
Cross Pol Isolation, within pointing cone
Feed Port Isolation – TX to RX (dB)
Power Handling Capability

Receive

Linear orthogonal standard, optional co-pol
10.95 - 12.75
41.6
1.30:1
1.5°
FCC 25.209, ITU-R S.580-6, IESS 208
54° K
21.3 dB/° K
35 dB
28 dB standard
35

Transmit

13.75-14.50
43.1
1.30:1
1.2°
FCC 25.209, ITU-R S.580-6, IESS 208
35 dB
30 dB standard
80 (includes filter)
500 watts per port

Controller

Various Options Available such as the RC300 Flyaway Companion Satellite Acquisition Tool

Options

BUC/LNB mounting

Beacon receiver

Waveguide interconnect options

Wind Anchoring options – ground stakes, sand bags

Computer Assisted Pointing (CAP)



BOOM & FEED STOW IN C.F. BARREL ALSO USED TO BALLAST ANTENNA WITH SAND OR WATER

