AVL TECHNOLOGIES

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

1.2 m, 6 piece Carbon Fiber Reflector Offset, Prime Focus, 0.8 f/D **Optics** 2-Port Ku-Linear Polarization Feed

Ultra Lightweight Manual with Integral Positioner Type Base and Extending Stabilizer Legs

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

Drive System

Travel

Azimuth

Coarse 360° Continuous Fine 360° Continuous

Elevation

Coarse $+10 - 95^{\circ}$ Fine $+10 - 95^{\circ}$ Polarization (Ku) \pm 95 $^{\circ}$

Stowed Configuration

Total weight: 23 lbs. Positioner 18.3" x 13.4" x 6.8"

> Total weight: 16.5 lbs 12.9" x 12.1" x 28.4"

Tripod

Total weight: 53 lbs*

*(includes: tripod, positioner, reflector, boom, Ku feed) Ku Antenna 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

80 mph in zenith (90° elevation) position Survival (anchored)

Pointing Loss in Wind

Ant Noise Temperature @ 20° EI,

G/T with 50° LNB, midband, clear

Cross Pol Isolation, within pointing

Feed Port Isolation – TX to RX (dB)

Cross Pol Isolation, on-axis

Power Handling Capability

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 **Receive Transmit** Polarization Linear orthogonal standard, optional co-pol Frequency Range (GHz) 10.95 - 12.75 13.75-14.50 Gain (Midband) (dBi) 41.6 43.1 **VSWR** 1.30:1 1.30:1 Beamwidth (-3 dB) 1.5° 1.2° Radiation Pattern Compliance FCC 25.209, ITU-R S.580-6, IESS 208 FCC 25.209, ITU-R S.580-6, IESS 208

54° K

21.3 dB/° K 35 dB

28 dB standard
35 80 (includes filter)
500 watts per port

Controller

midband

horizon

cone

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

35 dB

Toc

Options

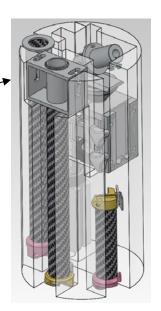
Buc/LNB mounting

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