

Satellite Earth Station Antennas

FlyAway Antenna 1.8m



Features

- Air Craft Baggage Shippable
- Fast Response, Dependable
- Portable, Light-Weight Antenna that Maneuvers Easily
- Easy Deployment, Fast Field Assembly
- Compact and Sturdy Portable Antenna



Summary

A totally new concept in C and Ku-Band fly-away antennas for quick satellite communication response. The 1.8 Meter Fly-Away antenna is aircraft baggage shippable, with a total packed weight of 330 lbs. Packed in three cases, the mount case doubles as a wheeled carrier for the two reflector cases. One person can maneuver the entire unit through airports with ease. The system can be field assembled by one person in less than one hour, with all necessary hand tools provided. All hardware is captive.

The 1.8 Fly-Away system provides broadcast quality transmissions from any remote location. Designed for field location installation, set up time is simple and fast allowing broadband content to be transmitted and received any time, anywhere.

Applications

- Broadcasting
- Satellite News Gathering
- Government and Military Communications
- Remote Business Applications

Specifications: 1.8m FlyAway Antenna

Electrical Frequency C-Band

Receive: 3.7 - 4.2 GHz
 Transmit: 5.9 - 6.4 GHz

Ku-Band

Receive: 10.95 - 12.75 GHz
 Transmit: 14.0 - 14.5 GHz

Gain (Midband) C-Band Ku-Band

Receive:	35.4 dBi	45.4 dBi
Transmit:	39.3 dBi	47.0 dBi

Antenna Efficiency

Receive:	63%	70%
Transmit:	63%	70%

Beamwidth (-3 dB)

Receive:	2.95°	0.98°
Transmit:	1.89°	0.82°

Noise Temp

10° Elevation		
Receive:	40°	37°
Transmit:	40°	37°
30° Elevation		
Receive:	30°	30°
Transmit:	30°	30°
50° Elevation		
Receive:	27°	27°
Transmit:	27°	27°

Cross-Pol	Receive:	30dBi	30dBi
Isolation Transmit:		30dBi	30dBi

Feed Port Isolation:

(Tx/Rx) Transmit:	60dBi	60dBi
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First Sidelobe Level

(Tx) Transmit:	-20 dB	-20 dB
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Mechanical

Antenna Diameter 1.8 Meters/5.9 Feet

Antenna Focal Length 107.9 cm/42.5 Inches

Antenna F/d Ratio 0.6

Antenna Type Prime Focus w/Offset Feed
 Number of Pieces 1

Mount Type Non-Penetrating
 Elevation/Azimuth

Other Mounts Available

Elevation Arc Coverage 10° - 90°

Azimuth Arc Coverage 360°

Feed Interface/Receive WR - 75

Feed Interface/Transmit WR - 75

Shipping Information

Shipping Specifications (weight, dimensions, and volume) vary w/ith configuration type.

Environmental

Wind Loading- Operational 96.6 km/h / 60 mph

Wind Loading-Survival 201.2 km/h / 125 mph