



# FLYAWAY SUMMARY

## Features

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

Designed for worldwide transmit and receive operations, the versatile family of FlyAway Antennas can be easily transported to any place in the world via domestic or international carrier. These portable antennas consist of a lightweight support structure with superior stiffness and high performance under wind loading conditions. Built compact and sturdy, each fly-away is lightweight and efficiently packed in rugged cases that double as a wheeled carrier that can be maneuvered with ease.

The versatile FlyAway Antennas provide broadcast quality transmissions from any remote location. Designed for field locations installation, set up time is simple and fast allowing broadband content to be transmitted and received any time, any where.

## Applications

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

# Specifications: FlyAway Antenna Systems Summary

1.8 C/Ku-Band Offset Tx/Rx Antenna Specifications						2.4 C/Ku-Band Offset Tx/Rx Antenna Specifications					
<b>GENERAL</b>						<b>GENERAL</b>					
Type	1.8 Meter Air Transportable (Baggage)					Type	2.4 Meter (13 Piece )Air Transportable (Baggage)				
Mount Type	Tripod El/Az Carrier					Mount Type	Tripod El/Az Carrier				
Feed Type	Multi-Mode Prime Focus					Feed Type	Multi-Mode Prime Focus				
Polarization Control	Manual Remote					Polarization Control	Manual Remote				
<b>RF</b>						<b>RF</b>					
Operating Frequency						Operating Frequency					
Ku-Band	14.0 - 14.5 GHz				10.95 - 12.75 GHz	Ku-Band	14.0 - 14.5 GHz				10.95 - 12.75 GHz
Gain @ midband	46.7 dB				45.4 dB	Gain @ midband	49.2 dB				47.6 dB
3dB Beamwidth	0.9°				1.0°	3dB Beamwidth	0.61°				0.70°
VSWR (max)	1.3:1				1.3:1	VSWR (max)	1.3:1				1.3:1
Feed Flange	WR-75				WR-75	Feed Flange	WR-75F				WR-75F
Cross Pol, On-Axis	30dB Min				30dB Min	Cross Pol, On-Axis	30dB Min				30dB Min
Transmit Power	750 W CW (Max)				n/a	Transmit Power	1KW (Max)				n/a
<b>C-Band</b>						<b>C-Band</b>					
Ku-Band	5.9 - 6.4 GHz				3.7 - 4.2 GHz	Ku-Band	5.85 - 6.4 GHz				3.65 - 4.2 GHz
Gain @ midband	35.5 dB				35.5 dB	Gain @ midband	42.0 dB				38.0 dB
3dB Beamwidth	1.8°				2.9°	3dB Beamwidth	1.5°				2.3°
VSWR (max)	1.3:1				1.3:1	VSWR (max)	1.3:1				1.3:1
Feed Flange	CPR-137G				PR-229G	Feed Flange	CPR-137G				PR-229G
Cross Pol, On-Axis	30dB Min				30dB Min	Cross Pol, On-Axis	30dB Min				30dB Min
Transmit Power	1KW (Max)				n/a	Transmit Power	1KW (Max)				n/a
<b>Sidelobe Envelope</b>						<b>Sidelobe Envelope</b>					
Antenna Noise Temperature	CCIR, INTELSA					Antenna Noise Temperature	CCIR, INTELSA				
3.65-4.2 GHz	28° K @ 20° EI					3.65-4.2 GHz	30° K @ 20° EI				
10.95-12.75 GHz	37° K @ 20° EI					10.95-12.75 GHz	37° K @ 20° EI				
<b>Environmental</b>						<b>Environmental</b>					
Operating Wind	50 mph					Operating Wind	30 mph				
Survival Wind	75 mph					Survival Wind	60 mph				
Operating Temperature	-40 to 130° F					Operating Temperature	-40 to 130 F				
<b>Shipping Information</b>						<b>Shipping Information</b>					
(3 Cases)	<b>L</b>	<b>x</b>	<b>W</b>	<b>x</b>	<b>H</b>	<b>TOTAL</b>	<b>WEIGHT</b>				
Panels	33"		21"		26"	80"	115 lbs				
Hub & Parts	25¾"		24¼"		22½"	72½"	100 lbs				
Mount/Carrier	52"		15¾"		12¼"	80"	115 lbs				
<b>Shipping Information</b>						<b>Shipping Information</b>					
(6 Cases)	<b>L</b>	<b>x</b>	<b>W</b>	<b>x</b>	<b>H</b>	<b>TOTAL</b>	<b>WEIGHT</b>				
Panels (2 Cases)	28.0"		40.5"		11.5"	80"	100 lbs				
Hub	33.0"		33.0"		14.0"	80"	100 lbs				
Mount	59.0"		10.5"		10.5"	80"	95 lbs				
Mount	49.0"		15.5"		15.5"	80"	95 lbs				
Mount	71.0"		4.5"		4.5"	80"	0 lbs				

35" INMARSAT Collapsible Antenna Specifications										
<b>GENERAL DESCRIPTION</b>			<b>ELECTRICAL</b>							
Mechanical (Mount Option)	Antenna pointing 0° to 360° azimuth. Bubble level reference is provided. Angular scales provided for pointing. Antenna may be removed from housing for service and can be ordered separately					Frequency Range	1530-1647.5 MHz			
Polarization	Right-Hand Circular					Gain	20.6 dBic (decibels referred to a circular isotrope), minimum (at feed connector)			
Connector	SMA Female or Type 'N'					Axial Ratio	2dB, on axis, maximum			
<b>ENVIRONMENTAL</b>						Operating Power	60 watts CW			
Operating Humidity	100%					VSWR	1.6 maximum			
Operating Temperature	-40° to +160°F					Sidelobe Envelope requirements	Meets INSMARSAT SES			
Operating Wind	30 MPH									
Net Weights	Reflector				8 lbs					
	Antenna w/ mount				35 lbs					
	Carrying Bag				6 lbs					

