

# TECHNICAL SPECIFICATIONS



The 1.2 m Flyway Autopointing Antenna System with the iNetVu 7000 controller has the following Key Features:

- One Button Auto-Pointing Controller
- 3 Axis Motorization
- Supports Manual Control
- Airline Checkable
- Captive Hardware/Fasteners
- No Tools Required for Assembly/Disassembly
- Setup Time Less than 15 Minutes, One Person
- Leveling capability for Uneven Surfaces
- 2 Pieces Dual Skin Metal Reflector
- Supports Ku Band

## RF Interface

Radio Mounting	Feed Arm
Axis Transition	Twist-Flex Waveguide
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U from Feedhorn to Base Connector

## Environmental

Wind Load	
Operational	
No Ballast or Anchors	40 km/hr
With Ballast or Anchors	72 km/hr
Survival (with Ballast/Anchors)	145 km/hr
Solar radiation	360 BTU/h/sq. ft
Temperature (Survival)	-40° F to 149° F (-40° C to 65° C)
Temperature (Operational)	-22° F to 131° F (-30° C to 55° C)
Rain	1.3 cm/h

## Maximum Mount Rotation

Azimuth	± 80°
Elevation	5°- 80°
Polarization	± 95°
Elevation Deploy Speed	Variable 2° /sec typ
Azimuth Deploy Speed	Variable 15° /sec Max. Variable 10° /sec typ
Peaking Speed	0.2° /sec

## Motors

Electrical Interface	12 VDC 15A Max.
----------------------	-----------------

## Warranty

Standard	1 year
----------	--------

**Note:** <sup>(1)</sup> Antenna based on Patriot, Model TXFLY-120

## Mechanical

Reflector	1.2 m Offset Feed <sup>(1)</sup>
Mount Geometry	Elevation over Azimuth
F/D Ratio	0.635
Offset Angle	22.0°
Antenna Optics	Single Offset

## Electrical

Rx & Tx Cables	2 RG6 cables (10m each)
Control cables	
Standard	10m Ext. Cable
Optional	upto 75m available

## Packaging Cases:

- Case1: 2 piece reflector, 137.8 x 29.2 x 75 cm; 40 kg
- Case2: Feed arm with elevation actuator, 123.8 x 49.5 x 22.2 cm; 23 kg
- Case 3: Tripod , 118.7 x 45 x 40.6 cm; 36 kg
- Case 4: 6U rack mount with iNetVu 7000 controller + cables; 32 kg

## Ku-Band (Linear)

Transmit Power	1 to 200 Watt	
Transmit (Tx) Frequency	13.75 - 14.50 GHz	
Receive (Rx) Frequency	10.70 - 12.75 GHz	
	<b>Receive</b>	<b>Transmit</b>
Feed Interface	WR75	WR75
Efficiency	70%	70%
Midband Gain	41.8 dBi	43.5 dBi
Antenna Noise Temperature		
10° Elevation	58 K	
30° Elevation	53 K	
Sidelobe better than	100λ/D < Ø < 20°	29 - 25 Log Ø dBi
	20° < Ø < 26.3°	-3.5 dBi
	26.3° < Ø < 48°	32-35 Log Ø dBi
	48° < Ø	-10 dBi
Cross-Polarization on Axis	30 dB	35 dB
Within 1 dB Beamwidth	22 dB	26 dB
Return Loss	17.7 dB typ	20 dB typ
Insertion Loss	0.3 dB typ	0.1 dB typ
Tx/Rx Isolation	40 dB	80 dB
Feed - 2 Port XPol		