

## TECHNICAL SPECIFICATIONS

The iNetVu 1200 airline checkable antenna system is a highly portable unit with a 6-piece carbon fibre reflector that can fit in a suitcase. It includes the auto-pointing 7000B controller, cables and another electronic device such as a modem, beacon receiver or PowerSmart that come in a second case.



- 1.2m 6-Piece carbon fibre reflector
- 3rd Axis Motorization
- Two case solution
- Supports manual control when required
- Airline checkable
- One button, auto-pointing controller acquires any Ku band satellite within 2 minutes
- Captive hardware / fasteners
- No tools required for assembly / disassembly
- Set-up time less than 10 minutes, One person job
- Leveling capability for uneven surfaces
- Optimal high-precision antenna pointing
- Includes jog controller functions
- Remote access and operation via network, web and other interfaces

### **Application Versatility**

The 1200 airline checkable system is easily configured to provide instant access to satellite communications for any application that requires reliable and/or remote connectivity in a rugged environment. Ideally suited for applications that require a quick, simple set-up typically for industries such as Disaster Management, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services.

## Mechanical

Reflector	1.2m Offset Feed
Mount Geometry	Elevation over Azimuth
Offset Angle	15°
Antenna Optics	Single Offset

## Environmental

Wind loading	
Operational	
With Ballast / Anchors	50 km/h
Survival	145 km/h
Temperature	
Operational	-22° to 131° F (-30° to 55° C)
Survival	-40° to 149° F (-40° to 65° C)
Solar Radiation	360 BTU/h/sq. ft.
Rain	1.3cm/h

## Electrical

Rx & Tx Cables	2 RG6 Cables (10m each)
Control Cables	
Standard	10m Ext. Cable
Optional	Upto 30m available

## Maximum Mount Rotation

Azimuth	200°
Elevation	5° - 90°
Polarization	± 95°
Elevation Deploy Speed	Variable 2° /sec typ
Azimuth Deploy Speed	Variable 5° /sec typ
Peaking Speed	0.2 /sec

## Motors

Electrical Interface	24 VDC 10A Max.
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## Warranty

Standard	1 year
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## RF Interface

Radio Mounting	Back of Reflector
Axis Transition	Rigid + Twist-flex Guide
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U F Type
	N Type (optional)

## Packaging Cases

Case1	6-piece antenna platform 48.5x71x39cm; 32kg
Case 2	2U rack mount including iNetVu 7000B controller + feed + cables 48.5x71x39cm; 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
Feed - 2Port XPol	

	Receive	Transmit
Feed Interface	WR75	WR75
Efficiency	70%	70%
Midband Gain	41.5 dBi	43.5 dBi
Antenna Noise Temp.		
10° Elevation	45°K	
30° Elevation	24°K	
Sidelobe better than	1.5°<θ<20° 20°<θ<26.3° 26.3°<θ<48° 48°<θ	29-25 Log θ dBi -3.5 dBi 32-25 Log θ dBi -10 dBi Typical
Cross-Polarization on Axis	-30 dB	-35 dB
Within 1dB Beamwidth	-25 dB	-30 dB
Return Loss	17.7 dB typ.	20dB typ.
Insertion Loss	0.3 dB typ.	0.1 dB typ.
Tx/Rx Isolation	40 dB	90 dB
VSWR	1.3:1	1.3:1