1210 Airline Checkable

iNetVu®
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu 1210 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 7024 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 1210 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.

* Patent Pending

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TECHNICAL SPECIFICATIONS

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 Deply Speed	Variable 5° /sec typ
Peaking Speed	0.2 /sec

Motors

Electrical Interface	24 VDC 10A Max.

Warranty

Standard	1 year

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 7024 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°	29-25 Log Θ dBi
	20°<Θ<26.3°	-3.5 dBi
	26.3°<Θ<48°	32-25 Log Θ dBi
	48°<Θ	-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

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