1202

iNetVu®
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu® 1202 Drive-Away antenna system is a sleek, simple to operate auto-deploy VSAT terminal which can be mounted on the roof of a vehicle. It is suitable for the most demanding applications. Its reflector optics feature a long focal length for excellent cross-pol performance. All three motorized axes have very low backlash and work together seamlessly with sophisticated integral sensors and the iNetVu® 7710 Controller to ensure excellent pointing accuracy.

Field Upgradable to Ka-Band

Features

- 1.2m Offset, prime focus, thermoset-molded reflector with back cover
- Low stow height
- Patented sleek aerodynamic form (Patent # D696649 & D696650)
- Designed to work with the iNetVu® 7710 Controller
- Supports hand cranks
- One button, auto-pointing controller acquires any Ku-band satellite within 2 minutes (<3 minutes with Beacon Receiver)
- Optimal high-precision antenna pointing
- Includes jog controller functions
- Remote access and operation via network, web and other interfaces
- Modular design makes all major aspects of the antenna field serviceable
- Supports Skyware 1.2m antenna, Type 125
- Wind deflector pod (optional)
- 2-piece thermoset-molded reflector (optional)
- Compliant with Eutelsat* and Intelsat
- Standard 2 year warranty

Application Versatility

The 1202 drive-away 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 SNG, Disaster Management, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services.

* Static performance: http://www.eutelsat.com/files/contributed/support/pdf/RF_Characterisation.pdf
Auto-pointing performance: http://www.eutelsat.com/files/contributed/satellites/pdf/Autopointing_Antennas.pdf

C-COM SATELLITE SYSTEMS INC.

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www.c-comsat.com

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Mechanical

Reflector Size & Material	1.2m Glass fibre reinforced polyester (1)
Platform Geometry	Elevation over Azimuth
Offset Angle	16.97°
Antenna Optics	One-piece offset feed, prime focus
Azimuth Travel	± 200°
Elevation Look Angle	0° to 90°
Polarization Travel	± 95°
Elevation Deploy Speed	2°/sec
Azimuth Deploy Speed	6°/sec
Peaking Speed	0.2°/sec
Motor Voltage	24 VDC 10 Amp (Max.)

Environmental

Wind loading	
Operational	75 km/h (46.5 mph)
Survival	
Deployed	112 km/h (70 mph)
Stowed	225 km/h (140 mph)
Temperature	
Operational	-30° to 55° C (-22° to 131° F)
Survival	-40° to 65° C (-40° to 149° F)
Solar Radiation	360 BTU/h/sq. ft.
Rain	1.3 cm/h (0.51 in/h)
Humidity	0-100% (condensing)

Thermal Test per MIL-STD-810F, Method 501.4, High/Low Temperatures
Vibration Test per MIL-STD-810F, Annex A, Category 4, Truck/Trailer/Tracked
Shock Test per IEC 60068-2-27

Electrical

Rx & Tx Cables	2 RG6 Cables - 10 m (33 ft) each
Control Cables	
Standard	10 m (33 ft) Extension Cable
Optional	Up to 30 m (100 ft) available

RF Interface

Radio Mounting	Feed arm/Inside vehicle
Coaxial	RG6U F Type
	N Type (optional)
Axis transition	Twist-Flex Waveguide

Physical

Stowed dimensions (without pod)	L: 203 cm (79.9")	W: 124 cm (48.8")
	H: 35 cm (13.8")	
Stowed Dimensions (with pod)	L: 225 cm (88.5")	W: 135 cm (53.2")
	H: 35 cm (13.8")	
Reflector Weight (including back cover)	16 kg (35.2 lbs)	
Total Platform Weight (without pod)	82 kg (180 lbs)	
Total Platform Weight (with pod)	88 kg (193 lbs)	

Ku (Linear)

Transmit Power	1 to 200 watt (2)	
Feed	2 Port XPol	
	Receive	**Transmit**
Frequency (GHz)	10.70 - 12.75 (3)	13.75 - 14.50
(Optional)	10.70 - 11.70	12.75 - 14.50
Feed Interface	WR75	WR75
Midband Gain Co-Pol (± 0.2dBi)	41.80	43.30
Antenna Noise Temp. (K)	10° EL = 45 / 30° EL = 24	
Sidelobe Envelope, Co-Pol (dBi)		
1.5°<Θ<20°	29-25 Log Θ	
20°<Θ<26.3°	-3.5	
26.3°<Θ<48°	32-25 Log Θ	
48°<Θ<180°	-10 (Typical)	
Cross-Polarization on Axis	> 35 dB	
Within 1dB Beamwidth	> 30 dB	
Tx/Rx Isolation	> 40 dB	90 dB
VSWR	1.3:1	1.3:1

Shipping Weights & Dimensions*

Platform Crated: 211 cm x 41 cm x 61 cm (83" x 16" x 24"), 121 kg (267 lbs)
Reflector Crate: 142 cm x 15 cm x 130 cm (56" x 6" x 51"), 22 kg (48 lbs)
Pod: 160 cm x 15 cm x 140 cm (63" x 6" x 55",) 12kg (27 lbs)

Total Weight without pod: 143 kg (315 lbs)
Total Weight with pod: 155 kg (342 lbs)

Transportable Case Options:
Platform: 211 cm x 65 cm x 45 cm (83" x 25.75" x 17.75")132 kg (290 lbs)
Reflector: 1- piece:
127 cm x 122 cm x 20 cm (50" x 48" x 8"), 45.5 kg (100 lbs)
Reflector: 2- piece: (Optional)
132 cm x 31 cm x 76 cm (52" x 12" x 30"), 34 kg (74 lbs)

* The shipping weights/dims can vary for particular shipments depending on actual system configuration, quantity, packaging materials and special requirements

Notes:
(1) Antenna based on Skyware, Model 125
(2) Depending on size and weight for feed arm mounting limitation, Eutelsat Characterized up to 40 watt BUC with Tx XPD >25 dB within 1 dB Contour
(3) LNB PLL Type required with stability better than ± 25 KHz

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