

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

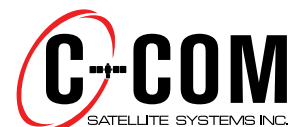
Features

- 1.2m Offset, prime focus, thermoset-molded reflector with back cover or optional Carbon Fibre Reflector
- Low stow height, high-precision
- 35 dB crosspol for large carrier uplinking
- Patented sleek aerodynamic form (Patent # D696649 & D696650)
- Designed to work with the iNetVu® 7710 Controller
- Supports hand cranks when required
- 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 or Carbon
- 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



TECHNICAL SPECIFICATIONS

Mechanical

Reflector Size & Material	1.2m Glass fibre reinforced polyester ⁽¹⁾
Optional	Carbon Reflector
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 60° C (-22° to 140° F)
Survival	-40° to 70° C (-40° to 158° 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	L: 203 cm (79.9")	W: 124 cm (48.8")
(without pod)	H: 35 cm (13.8")	
Stowed Dimensions	L: 225 cm (88.5")	W: 135 cm (53.2")
(with pod)	H: 35 cm (13.8")	
Reflector Weight - SMC	16 kg (35.2 lbs)	
Carbon	7.9 kg (17.4 lbs)	
Total Platform Weight - SMC	82 kg (180 lbs)	
Carbon	74 kg (163 lbs)	
Total Platform Weight - SMC	88 kg (193 lbs)	
(with pod)		

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)	42.20	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 1 dB 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"), 12 kg (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