Ka-1202G

TECHNICAL SPECIFICATIONS

iNetVu®
by C-COM Satellite Systems Inc.

The iNetVu® Ka-1202G 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. All 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 Ku-Band

Features

- 1.2m Offset, prime focus, thermoset-molded reflector with back cover
- Low stow height
- Designed to work with the iNetVu® 7710 Controller
- Supports hand cranks
- One button, auto-pointing controller acquires Ka-band satellite within 2 minutes
- 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 General Dynamics 1.2m Ka antenna
- 2-piece thermoset-molded reflector (optional)
- Compliant with commercial Ka Services (Avanti/Gilat)
- Optional 3W & 5W transceivers; higher BUCs also supported
- Standard 2 year warranty

Application Versatility

The Ka-1202G 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.

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Mechanical

Reflector Size & Material	1.2m Glass Fibre Reinforced Polyester SMC [1]
Platform Geometry	Elevation over Azimuth
Offset Angle	N/A
Antenna Optics	One-piece offset feed, prime focus
Azimuth Travel	± 200°
Elevation Look Angle	0° to 90°
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	72 km/h (45 mph)
Survival	
Deployed	112 km/h (70 mph)
Stowed	160 km/h (100 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
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

Physical

Stowed dimensions	L: 203 cm (79.9")	W: 124 cm (48.8")
	H: 34 cm (13.4")	
Reflector Weight (including back cover)	16 kg (35.2 lbs)	
Total Platform Weight	82 kg (180 lbs)	

Ka (Circular)

Feed Interface	RG6 F Type	
	Receive	**Transmit**
Frequency (GHz)	19.20 - 20.20	29.50 - 30.00
Midband Gain Co-Pol (± 0.2dBi)	46.50	49.60
G/T	23.6 dB/K @ 19.95 GHz	
Antenna Noise Temp. (K)	20° EL = 107 / 40° EL = 89	
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-Pol Within 1dB BW	>22.0 dB	>22.0 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)

Total Weight: 143 kg (315 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 General Dynamics/Skyware Global

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