

Ka-1200+G

iNetVu®

by C-COM Satellite Systems Inc.

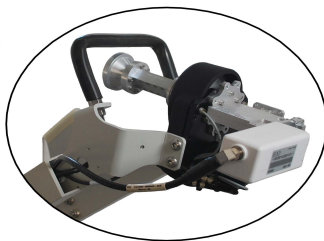
TECHNICAL SPECIFICATIONS

The iNetVu® Ka-1200+G Drive-Away antenna system is a sleek, simple to operate auto-deploy VSAT terminal which can be mounted on the roof of a vehicle. All three motorized axes have very low backlash and work together seamlessly with sophisticated integral sensors and the iNetVu® 7715 Controller to ensure excellent pointing accuracy.

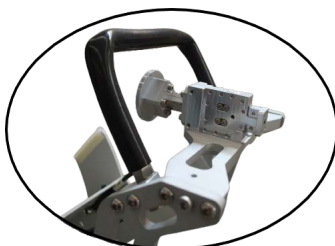
Field Upgradable to Ku-Band

Features

- 1.2m Offset, prime focus, thermoset-molded reflector with back cover
- Optional: Carbon Fiber Reflector
- Low stow height, high-precision
- Designed to work with the iNetVu® 7715 Controller
- Supports hand cranks when required
- One button, auto-pointing controller acquires any Ka-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 GD 1.2m antenna, Models 1132/3122
- Compliant with Eutelsat and Intelsat
- Standard 2 year warranty



2 Port Ka-band feed option



2 Port Q-band feed option



Application Versatility

The Ka-1200+G 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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TECHNICAL SPECIFICATIONS

Mechanical

Reflector Size & Material	1.2m Glass fibre reinforced polyester ⁽¹⁾
Optional Reflector	Carbon Fiber
Platform Geometry	Elevation over Azimuth
Offset Angle	17.35°
Antenna Optics	One-piece offset feed, prime focus
Azimuth Travel	± 200°
Elevation Look Angle	0° to 90°
Polarization Travel	± 45° (LH/RH CP)
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-810H, Methods 501.7/502.7 High/Low Temperatures
Vibration Test per MIL-STD-810H, Method 514.8 Procedure I, Category 4, Truck/
Trailer/Tracked
Shock Test per IEC 60068-2-27 Edition 4.0
Dust and Water Ingress IP65 per IEC 60529 Edition 2.2

Electrical

Rx & Tx Cables	2 RG6 Cables - 10 m (33 ft) each
Control Cables	
Standard	10 m (33 ft) Extension Cable
Optional	Up to 60 m (200 ft) available

RF Interface

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

Physical

Stowed dimensions	L: 204.4 cm (80.5") W: 124 cm (48.8")
	H: 41.2 cm (16.2")
Platform Weight	83.4 kg (184 lbs)
Carbon Reflector Weight	7.9 kg (17.4 lbs)
SMC Reflector Weight	16 kg (35.2 lbs)
(incl back cover)	

Ka-Band

	Receive	Transmit
Frequency (GHz)		
3W-XRC	19.20 - 20.20	29.50 - 30.00
(Optional) 3W-XRF	17.80 - 20.20	29.00 - 30.00
(Optional) 3W-TRX0121	18.10 - 20.20	29.00 - 30.00
(Optional) 4W-AN8025	17.70 - 20.20	29.00 - 30.00
(Optional) 4W-AN8023	17.70 - 20.20	28.10 - 29.10
(Optional) 2 Port CP feed	19.20 - 21.20	29.00 - 31.00
(Optional) 2 Port CP Q feed	38.00 - 40.00 ⁽²⁾	38.00 - 40.00
Midband Gain (±2dB)	46.5	49.9
EIRP (Normal)	54 dBW @ 29.75 GHz	
G/T (Normal)	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 contour	>22 dB	
VSWR	1.3:1 (Max)	

Ka-Band (R/O Circular)

	Receive
Frequency (GHz)	17.0 - 22.2
Feed Interface	WR42

Shipping Weights & Dimensions*

Platform Crated: 211 cm x 41 cm x 61 cm (83" x 16" x 24"), 140 kg (308 lbs)
Reflector Crate: 142 cm x 15 cm x 130 cm (56" x 6" x 51"), 22 kg (48 lbs)
Total Weight: 162 kg (356 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)

* 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 GD, Models 1132/3122
- (2) Stated Midband Gain do not apply to Q-band Feed

C-COM
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Specifications are subject to change

Draft

Jul 2026