

# Ka-1200+V



## TECHNICAL SPECIFICATIONS

The iNetVu® Ka-1200+V 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 ViaSat or KA-SAT 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 ViaSat/General Dynamics 1.2m Ka antenna
- Compliant with commercial Ka Services (Exede & Tooway™)
- Standard 2 year warranty

#### Application Versatility

The Ka-1200+V 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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# iNetVu®

by C-COM Satellite Systems Inc.

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### Mechanical

Reflector Size & Material	1.2m Glass fibre reinforced polyester <sup>(1)</sup>
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°
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	Single IFL, 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
Coaxial	RG6U F Type

### Physical

Stowed dimensions	L: 204.4 cm (80.5")	W: 124 cm (48.8")
	H: 41.2 cm (16.2")	
Reflector Weight (including back cover)	16 kg (35.2 lbs)	
Total Platform Weight	100 kg (220 lbs)	

### Ka-Band

	Receive	Transmit
Frequency (GHz)	19.70 - 20.20	29.50 - 30.00
Midband Gain Co-Pol (± 0.2dBi)	46.50	49.60
G/T	23.6 dB/K	
Antenna Noise Temp. (K)	20° EL = 107 / 40° EL = 89	
Sidelobe Envelope, Co-Pol (dBi)		
1.5° < $\Theta$ < 20°	29-25 Log $\Theta$	
20° < $\Theta$ < 26.3°	-3.5	
26.3° < $\Theta$ < 48°	32-25 Log $\Theta$	
48° < $\Theta$ < 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"), 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 General Dynamics



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Specifications are subject to change

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