

Ka-1202V

iNetVu[®]
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu[®] Ka-1202V 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 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
- 2-piece thermoset-molded reflector (optional)
- Compliant with commercial Ka Services (Exede & tooway[™])
- Standard 2 year warranty



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Application Versatility

The Ka-1202V 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 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 | 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 | Single IFL, RG6 cable - 10 m (33 ft) |
| 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 |

Physical

| | | |
|--|---------------------------------------|-------------------|
| Stowed dimensions | L: 203 cm (79.9") H: 35 cm (13.8") | W: 124 cm (48.8") |
| Reflector Weight (including back cover) | 16 kg (35.2 lbs) | |
| Total Platform Weight | 82 kg (180 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° < 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