

1201

iNetVu®
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu® 1201 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® 7024C Controller to ensure excellent pointing accuracy.



Features

- 1.2m Offset, prime focus, thermoset-molded reflector with back cover
- Low stow height
- Sleek aerodynamic form, patent pending
- Designed to work with the iNetVu® 7024C Controller
- Supports hand cranks
- One button, auto-pointing controller acquires any Ku-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 Skyware 1.2m antenna, Type 125
- Wind deflector pod (optional)
- Eutelsat and Intelsat compliant
- Standard 2 year warranty

Application Versatility

The 1201 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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Specifications are subject to change

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Mechanical

Reflector Size & Material	1.2m Glass fibre reinforced polyester ⁽¹⁾
Mount Geometry	Elevation over Azimuth
Offset Angle	16.97°
Antenna Optics	One-piece offset feed, prime focus
Azimuth Travel	± 180°
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	100 km/h (62 mph)
Stowed	150 km/h (93 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)

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 (without reflector pod)	L: 203 cm (79.9") H: 34 cm (13.4")	W: 124 cm (48.8")
Stowed Dimensions (with-reflector pod)	L: 225 cm (88.5") H: 34 cm (13.4")	W: 135 cm (53.2")
Reflector Weight (including back cover)	16 kg (35.2 lbs)	
Total Platform Weight (without reflector pod)	82 kg (180 lbs)	
Total Platform Weight (with reflector pod)	88 kg (193 lbs)	

Ku (Linear)

Transmit Power ⁽²⁾	1 to 200 watt	
Feed	2 Port XPol	
	Receive	Transmit
Frequency (GHz)	10.70 - 12.75	13.75 - 14.50
Feed Interface	WR75	WR75
Midband Gain Co-Pol (± 0.2dBi)	41.80	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 1dB Beamwidth	> 30 dB	
Tx/Rx Isolation	> 40 dB	90 dB
VSWR	1.3:1	1.3:1

Shipping Weights & Dimensions

Mount Crate: 211 cm × 41 cm × 61 cm (83" × 16" × 24"), 121 kg (267 lbs)
Dish Box: 142 cm × 15 cm × 130 cm (56" × 6" × 51"), 22 kg (48 lbs)
POD: 160 cm × 15 cm × 140 cm (63" × 6" × 55"), 12kg (27 lbs)

Total Weight without POD: 143 kg (315 lbs)
Total Weight with POD: 155 kg (342 lbs)

Note:

⁽¹⁾Antenna based on Skyware, Model 125

⁽²⁾ Depending on size and weight for feed arm mounting limitation

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