

iNetVu[®]

by C-COM Satellite Systems Inc.

980+

STEP

ELECTRONICS

A Division of Av-Comm



TECHNICAL SPECIFICATIONS

The iNetVu[®] 980+ Drive-Away Antenna is a 98 cm Ku-band auto-acquire satellite antenna system which can be mounted on the roof of a vehicle for Broadband Internet Access over any configured satellite. The system works seamlessly with the iNetVu[®] 7024C Controller providing fast satellite acquisition within minutes, anytime anywhere.



980+ Stowed (with pod option)

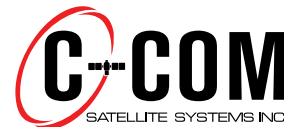
Field Upgradable to Ka-98G or Ka-98V

Features

- One-Piece high surface accuracy, offset feed, SMC reflector
- Heavy duty feed arm capable of supporting up to 5Kg (10 lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu[®] 7024C Controller
- Works seamlessly with the world's most popular commercially available Ku modems and services
- Field Upgradable to Ka-98G or Ka-98V
- 3 Axis motorization
- Supports manual control when desired
- Supports hand cranks when required
- One button, auto-pointing controller acquires any Ku satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Based on GD 98 cm reflector with cross-pol feed
- Available with pod option
- Standard 2 year warranty

Application Versatility

If you operate in Ku, the 980+ 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. The system is also field upgradable to Ka-band. Ideally suited for industries such as Oil & Gas Exploration, Military Communications, Disaster Management, SNG, Emergency Communications Backup, Cellular Backhaul and many others.





TECHNICAL SPECIFICATIONS

Mechanical

Reflector	98 cm Antenna SMC reflector, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass ± 2° Tilt sensor ± 0.1°
Azimuth	Full 360° in overlapping 200° sectors
Polarization	±90°
Elevation	0 - 90°
Elevation Deploy Speed	Variable, 10%/sec typ.
Azimuth Deploy Speed	Variable, 10%/sec typ.
Peaking Speed	0.1%/sec

Environmental

Survival	
Wind Deployed	160 km/h (100 mph)
Wind Stowed	225 km/h (140 mph)
Temperature	-40°C to 65°C (-40°F to 150°F)
Operational	
Wind	72 km/h (45 mph)
Temperature	-30°C to 55°C (-22°F to 130°F)

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, Water Ingress per IP-66

RF Interface

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

Physical

Mounting Plate	L: 156 cm (61.5")	W: 45 cm (17.7")
Stowed Reflector Ext. Dims (without pod)	L: 173 cm (68.0") H: 33.4 cm (13.1")	W: 99 cm (39.0")
Stowed Reflector Ext. Dims (with pod)	L: 185 cm (73.2") H: 33.4 cm (13.1")	W: 114.5 cm (45")
Deployed Height	151 cm (59.5")	
Platform Weight	54 kg (119 lbs)	
Pod weight alone	6.8 kg (15lbs)	
Platform Weight (without pod)	54 kg (119lbs)	
Platform Weight (with pod)	60.8 kg (134lbs)	

Electrical

Rx & Tx Cables	2 RG6 cables -10 m (33 ft) each
Control Cables	
Standard	10 m (33 ft) Ext. Cable
Optional	up to 60 m (200 ft) available

Ku-band (Linear)

Transmit Power	1 to 200 Watt
Receive Frequency (GHz)	10.70 - 12.75 ⁽¹⁾
Transmit Frequency (GHz)	13.75 - 14.50
Midband Gain (±0.2 dB)	
(Rx)	39.80@12.00 GHz
(Tx)	41.30@14.30 GHz
Antenna Noise Temp. (K)	10° EL=53 20° EL= 39 30° EL= 32 Max.

Sidelobe Envelope, Co-Pol (dBi)	
100λ/D < Ø < 20°	29 - 25 Log Ø
20° < Ø < 26.3°	-3.5
26.3° < Ø < 48°	32 - 25 Log Ø
48° < Ø < 180°	-10 (typical)

Cross-Polarization

Standard feed:	
Within 1 dB contour:	-30dB (Max.)
Any Angle off Axis:	-25 dB (Max.)
Optional Eutelsat Feed:	
Within 1 dB contour	< 30dB (Min.)
VSWR Rx	1.3:1
VSWR Tx	1.3:1

Motors

Electrical Interface	24VDC	8 Amp (Max.)
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Shipping Weights & Dimensions*

iNetVu 980+ system, controller and standard set of cables, accessories
 Mount Crate: 186 cm × 112 cm × 69 cm (73" × 44" × 27"), 136 kg (300 lbs)
 POD box: 127cm × 41cm × 127cm (50" × 16" × 50"), 23 kg (50 lbs)
 Total Weight with POD: 159kg (350lbs)

*The shipping weights/dims can vary for particular shipments depending on actual system configuration, quantity, packaging materials and special requirements

Note:

⁽¹⁾ LNB PLL Type required with stability better than ± 25 KHz

