

# 981

# iNetVu®

by C-COM Satellite Systems Inc.

## TECHNICAL SPECIFICATIONS

The iNetVu® 981 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.

### Field Upgradable to Ka-98H, Ka-98G or Ka-98V



### Features

- One-Piece high surface accuracy, offset feed, steel reflector
- Heavy duty feed arm capable of supporting up to 13.5kg (30 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-band
- 3 Axis motorization
- Supports manual control when desired
- One button, auto-pointing controller acquires any Ku or X-band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Based on Skyware Global 98 cm reflector with cross-pol feed
- Uses long focal length feed for low cross-pol performance
- Available with pod option
- Standard 2 year warranty



981 Stowed (with pod option)

### Application Versatility

If you operate in Ku-band (or X-band), the 981 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.

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SATELLITE SYSTEMS INC.

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	98 cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1^\circ$
Azimuth	Full 360° in overlapping 200° sectors
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

### 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	
	<b>Ku-band (Linear)</b>	<b>X-band (Circular)</b>
Transmit Power	1 to 200 Watt	
Receive Frequency (GHz)	10.70 - 12.75 (1)	7.25 - 7.75
Transmit Frequency (GHz)	13.75 - 14.50	7.90 - 8.40
Midband Gain ( $\pm 0.2$ dB)		
(Rx)	39.70@12.00 GHz	35.70
(Tx)	41.20@14.30 GHz	36.70
Antenna Noise Temp. (K)	10° EL=53 20° EL= 39 30° EL= 32 Max.	10° EL=53 20° EL= 48 30° EL= 45 Max.
Sidelobe Envelope, Co-Pol (dBi)		
1.8° < $\theta$ < 20°	29 - 25 Log $\theta$	29 - 25 Log $\theta$
20° < $\theta$ < 26.3°	-3.5	-3.5
26.3° < $\theta$ < 48°	32 - 25 Log $\theta$	32 - 25 Log $\theta$
48° < $\theta$ < 180°	-10 (typical)	-10 (typical)
Cross-Polarization		
Within 1 dB contour	> -30 dB in 1 dB Contour	
VSWR Rx	1.5:1	1.25:1
VSWR Tx	1.3:1	1.25:1

### RF Interface

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

### Physical

Mounting Plate	L: 161 cm (63.5")	W: 45 cm (17.7")
Stowed Reflector Ext. Dims (without reflector pod)	L: 164.8 cm (64.9")	W: 100 cm (39.5")
H: 30 cm (11.8")		
Stowed Reflector Ext. Dims (with reflector pod)	L: 178.8 cm (70.4")	W: 113 cm (44.5")
H: 30 cm (11.8")		
Deployed Height	151 cm (59.5")	
Platform Weight	54 kg (119 lbs)	
Reflector back cover	2.27 kg (5 lbs)	
Pod alone	6.8 kg (15 lbs)	
Total Platform Weight (without reflector pod)	56.3 kg (124 lbs)	
Total Platform Weight (with reflector pod)	63 kg (139 lbs)	

### Motors

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

iNetVu 981 system, with POD, controller and standard set of cables, accessories  
 Mount Crate: 186 cm x 112 cm x 69 cm (73" x 44" x 27"), 136 kg (300 lbs)  
 POD box: 127 cm x 41 cm x 127 cm (50" x 16" x 50"), 23 kg (50 lbs)  
 Total Weight with POD: 159 kg (350 lbs)

\*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  $\pm 25$  KHz

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