

# 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 direct broadband access over any configured satellite. The system works seamlessly with the iNetVu® 7024C Controller providing fast satellite acquisition within minutes, anytime anywhere.



### Features

- One-Piece high surface accuracy, offset feed, steel 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-band
- 3 Axis motorization
- Supports manual control when desired
- One button, auto-pointing controller acquires any Ku-band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Based on Skyware Global 98cm reflector with cross-pol feed
- Uses long focal length feed for low cross-pol performance
- Standard 2 year warranty

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

### Application Versatility

If you operate in Ku-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.

# melcom

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Specifications are subject to change

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## TECHNICAL SPECIFICATIONS

**Mechanical**

Reflector	98 cm Elliptical Antenna, offset feed
Mount 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 2°/sec typ.
Azimuth Deploy Speed	Variable 15°/sec Max., 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)

**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>Receive</b>	<b>Transmit</b>
Frequency (GHz)	10.70-12.75	13.75-14.50
Feed Interface	WR-75	WR-75
Midband Gain ( $\pm 0.2$ dBi)	39.70@12.00 GHz	41.20@14.30 GHz
Antenna Noise Temp. (K)	10° EL=53 / 20° EL= 39 / 30° EL= 32 Max.	
Sidelobe Envelope Co-Pol (dBi)		
1.8° < $\theta$ < 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-Polarization	> -30 dB in 1 dB Contour	
VSWR	1.5:1	1.3:1

**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 Dish Ext. Dims	L: 164.8 cm (64.9") W: 100 cm (39.5") H: 29 cm (11.5")
Deployed Height	151 cm (59.5")
Max. Weight	54 kg (119 lbs)

**Motors**

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

Crate: 183 cm x 109 cm x 66 cm (72" x 43" x 26"), 52 kg (114 lbs)  
 Mount: 54 kg (119 lbs)  
 7024C Controller: 6 kg (13 lbs)  
 Cables: 5 kg (11 lbs)

Total weight: 117 kg (258 lbs)