Ka-98G

iNetVu®
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu® Ka-98G Drive-Away Antenna is a 98 cm 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.

Stowed (with pod option)

Features

- One-Piece high surface accuracy, offset feed, steel reflector
- Heavy duty feed arm capable of supporting up to 5kg (10 lbs) RF transceiver
- Designed to work with the iNetVu® 7024C Controller
- Works seamlessly with the world's most popular commercially available Ka modems and services
- 2 Axis motorization (3 Axis Optional)
- Supports manual control when required
- One button, auto-pointing controller acquires any Ka-band satellite within 2 minutes
- Field upgradable to Ku-band
- Locates satellites using the most advanced satellite acquisition methods
- Supports Skyware Global 98 cm Ka antenna and 3W transceiver
- Avanti approved; also compliant with Gilat (SkyEdge) Ka services
- Available with pod option
- Standard 2 year warranty

avanti Approved Compatibility

Application Versatility

If you operate in Ka-band, the Ka-98G 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 industries such as Oil & Gas Exploration, Military Communications, Disaster Management, SNG, Emergency Communications Backup, Cellular Backhaul and many others.

C-COM SATELLITE SYSTEMS INC.

613-745-4110 | 1- 877-463-8886
www.c-comsat.com

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Mechanical

Reflector	98 cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass ± 2º Tilt sensor ± 0.1º
Azimuth	Full 360º in overlapping 200º sectors
Elevation	0 - 90º
Polarization	LHCP/RHCP (Motorized Option Available)
Elevation Deploy Speed	Variable 2º/sec typ.
Azimuth Deploy Speed	Variable 15º/sec Max.,10º/sec typ.
Peaking Speed	0.1º/sec

Environmental

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

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

	Receive	Transmit
Frequency (GHz)	19.20 - 20.20	29.50 - 30.0
Feed Interface (Circular)	RG6	RG6
Midband Gain (+-0.2 dBi)	43.50 @19.75 GHz	46.60 @29.75 GHz
Antenna Noise Temp. (K)	30º EL= 62 Max.	
Sidelobe Envelope Co-Pol (dBi)		
100λ / D < Ø < 20º	29 - 25 Log Ø	
20º < Ø < 26.3º	-3.5	
26.3º < Ø < 48º	32-25 Log Ø	
48º < Ø < 180º	-10 (typical)	
Cross-Polarization	> -24 dB	> -22 dB
VSWR	1.3:1	

RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U from Transceiver to Base Connector

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") H: 29 cm (11.5")	W: 100 cm (39.5")
Stowed Reflector Ext. Dims (with reflector pod)	L: 178.8 cm (70.4") H: 29 cm (11.5")	W: 113 cm (44.5")
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.)

Shipping Weights & Dimensions

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

Total weight without pod: 117 kg (258 lbs)

Pod inside shipping box:
33 cm x 127 cm x 127 cm (13" x 50" x 50"), 16.1 kg (35.5 lbs)

Transportable Case includes Platform (Optional):
Platform Case: 183 cm x 109 cm x 47 cm (72" x 43" x 18.5"), 133.5 kg (294 lbs)

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