

Ka-98G



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 Broadband Internet 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.

<http://www.avantiplc.com/avanti-approved-compatibility>

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INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change

May 2016

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Intellisystem
TECHNOLOGIES

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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°
Polarization	LHCP/RHCP (Motorized Option Available)
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)

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	
Frequency (GHz)	Receive 19.20 - 20.20	Transmit 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)	30° EL= 62 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	> -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")	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*

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)

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

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