

# Ka-98H/Jup



## TECHNICAL SPECIFICATIONS

The iNetVu® Ka-98H/Jup 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® 7710 Controller providing fast satellite acquisition within minutes, anytime anywhere.

**"Approved for operation on Hughes JUPITER System"**



### 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) or transceiver
- Designed to work with the iNetVu® 7710 Controller
- Adapted to operate on HNS Jupiter based Network Technology
- 2 or 3 Axis motorization
- 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 GD/HNS 98cm Ka antenna
- Works with HNS Jupiter (NA)(1), YAHSAT (MENA)(1) and Avanti(1)
- Standard 2 year warranty

**HUGHES.**

### Application Versatility

If you operate in Ka-band, the Ka-98H/Jup 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.



613-745-4110 | 1-877-463-8886 (1-877-iNetVu6)  
www.c-comsat.com

Specifications are subject to change

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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 $\pm 0.1$
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

IFL Cable	1 RG6 cable - 10 m (33 ft)	
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)	19.20 - 20.20	29.50 - 30.00
Feed Interface (Circular)	RG6	RG6
Midband Gain ( $\pm 0.2$ dBi)	43.50 @19.75 GHz	46.60 @29.75GHz
Antenna Noise Temp. (K)	30° EL= 62 Max.	
Sidelobe Envelope, Co-Pol (dBi)		
$100\lambda / D < \theta < 20^\circ$	29 - 25 Log $\theta$	
$20^\circ < \theta < 26.3^\circ$	-3.5	
$26.3^\circ < \theta < 48^\circ$	32-25 Log $\theta$	
$48^\circ < \theta < 180^\circ$	-10 (typical)	
Cross-Polarization	> -24 dB	> -22 dB
VSWR	1.3:1	

### RF Interface

Radio Mounting	Feed Arm <sup>(1)</sup>
Coaxial	RG6U from Transceiver to Base Connector

### Physical

Mounting Plate	L: 151 cm (59.5")	W: 45 cm (17.7")
Stowed Reflector Ext. Dims	L: 173 cm (68.1")	W: 100 cm (39.5")
	H: 30 cm (11.8")	
Deployed Height	151 cm (59.5")	
Platform 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 (115 lbs)  
Platform: 54 kg (119 lbs)  
7710 Controller: 6 kg (13 lbs)  
Cables: 5 kg (11 lbs)

Total weight: 117 kg (258 lbs)

Transportable Case Option:

Base 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

Notes:

(1) Supported Radios: Jupiter Radios motorized with Rotary Joint



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