

# Ka-98V



## TECHNICAL SPECIFICATIONS

The iNetVu® Ka-98V 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® 7715 Controller providing fast satellite acquisition within minutes, anytime anywhere.

### Eutelsat Type Approved for Broadband Services



### Features

- One-Piece high surface accuracy, offset feed, SMC reflector
- Heavy duty feed arm supports new eTRIA Transceiver
- Designed to work with the iNetVu® 7715 Controller
- Works seamlessly with the world's emerging commercial ViaSat / KA-SAT satellite Surfbeam II modems
- Eutelsat Type Approved for Broadband Services\*
- Auto beam select on KA-SAT Tooway services
- 2 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 Global Inacom 98cm Ka antenna
- Available with pod option
- Standard 2 year warranty



Stowed (with pod option)

### Application Versatility

If you operate in Ka-band, the Ka-98V 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. This next generation mobile Ka terminal delivers affordable broadband Internet services (High-speed access, Video & Voice over IP, file transfer, e-mail or web browsing). 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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## TECHNICAL SPECIFICATIONS

### Mechanical

|                        |   |
|------------------------|---|
| Reflector              | 98 cm Elliptical Antenna, offset feed                               |
| Platform Geometry      | Elevation over Azimuth  |
| Deployment Sensors     | GPS antenna<br>Compass $\pm 2^\circ$<br>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>Receive</b>                  | <b>Transmit</b>  |
| Frequency (GHz)                | 18.30 - 20.20                   | 28.10 - 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)                   |                  |
| 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: 170 cm (66.9")   | W: 100 cm (39.5") |
| Stowed Reflector Ext. Dims (with reflector pod)    | L: 178.8 cm (70.4") | 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)  
7715 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

