Ka-74G

TECHNICAL SPECIFICATIONS

iNetVu®
by C-COM Satellite Systems Inc.

The iNetVu® Ka-74G Drive-Away Antenna is a 74 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.

3W-XRE

Approved On Eutelsat Konnect Services

Features

- One-Piece, high surface accuracy, offset feed, steel reflector
- Heavy duty feed arm capable of supporting up to 5 kg (10 lbs) RF Tranceiver
- Designed to work with the iNetVu® 7715 Controller
- Works seamlessly with the world's emerging commercial Ka modems and services
- 2 or 3 Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires Ka-band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Supports Global Invacom & Gilat Ka-band Transceivers
- Standard 2 year warranty

EUTELSAT characterized for broadband services

Application Versatility

If you operate in Ka-band, the Ka-74G 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.

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www.c-comsat.com

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TECHNICAL SPECIFICATIONS

Mechanical

Reflector	74cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna
	Compass ± 2°
	Tilt sensor ± 0.1°
Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 90°
Polarization	Circular, Auto-switching (RH or LH)
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 501.4/502.4, High/Low Temperatures
Vibration Test per MIL-STD-810F, Annex A, Category 4, Truck/Trailer/Tracked
Shock Test per IEC 60068-2-27, Appendix A,Water Ingress per IP-66

Electrical

Rx & Tx Cable	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	Transmit
3W-XRE	17.30 - 20.20	28.4455 - 28.9455 & 29.50 - 30.00
3W-XRF	17.80 - 20.20	29.00 - 30.00
Konnect 3W-XRF	17.70 - 20.20	29.00 - 30.00
(Optional) 3W - TRX0121	18.10 - 20.20	29.00 - 30.00
(Optional) 4W - AN8025	17.70 - 20.20	29.00 - 30.00
(Optional) 4W - AN8023	17.70 - 20.20	28.10 - 29.10
(Optional) 2 Port CP feed	19.20 - 21.20	29.00 - 31.00
Feed Interface (Circular)	RG6	RG6
Midband Gain (+-0.5 dBi)	41.6 @19.2 GHz	45.3 @29.0 GHz
Antenna Noise Temp. (K)	30° EL= 50 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	> 23 dB	> 25 dB
VSWR	1.3:1	

RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U from Transceiver to Base Connector

Physical

Mounting Plate	L: 131 cm	(51.6")
	W: 45 cm	(17.7")
Stowed Reflector Ext. Dims	L: 155 cm	(61")
	W: 76 cm	(29.9")
	H: 30 cm	(11.8")
Deployed Height	133 cm	(52")
Platform Weight	52 kg	(115 lbs)

Motors

Electrical Interface	24VDC	8 Amp (Max.)

Shipping Weights & Dimensions*

System, with controller and standard set of cables, accessories
Crate (including Reflector, Feed/Transceiver):
185.5 cm × 112 cm × 68.5 cm (73" × 44" × 27"), 127 kg (280 lbs)
Crate (no Reflector, no Feed/Transceiver):
185.5 cm × 112 cm × 68.5 cm (73" × 44" × 27"), 118 kg (260 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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