

iNetVu® Spec Sheets











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TECHNICAL SPECIFICATIONS

NEW GIEN KA Driveaway Antennas









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

Specifications are subject to change





TECHNICAL SPECIFICATIONS

The iNetVu[®] Ka-75V Drive-Away Antenna is a 75 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.

"Authorized for use on ViaSat Exede® Enterprise and on KA-SAT NEWSSPOTTER NEWSGATHERING service by Eutelsat"



Features

One-Piece, high surface accuracy, offset feed, steel reflector

ciNetVu[®]

by C-COM Satellite Systems Inc.

- Heavy duty feed arm now supports both type of Transceivers: Standard Tria and new eTRIA
- Designed to work with the iNetVu® 7024C Controller
- Works seamlessly with the world's emerging commercial ViaSat/KA-SAT satellite Surfbeam II/PRO Auto-acquire modems
- Auto beam select on KA-SAT Tooway services
- 2 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 Skyware Global 75 cm Ka antenna
- Standard 2 year warranty



Application Versatility

If you operate in Ka-band, the Ka-75V 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.

http://www.eutelsat.com/files/contributed/support/pdf/Eutelsat_Broadband_Services.pdf (p.12) http://www.eutelsat.com/files/contributed/products/pdf/KA-SAT-SNG-terminals.pdf



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Specifications are subject to change

Ma<u>y 2016</u>

Ka-75V

TECHNICAL SPECIFICATIONS

Mechanical

Reflector Platform Geometry Deployment Sensors

Azimuth Elevation Polarization Elevation Deploy Speed Azimuth Deploy Speed Peaking Speed

Environmental

Survival Wind Deployed Wind Stowed Temperature Operational Wind Temperature

160 km/h (100 mph) 225 km/h (140 mph) -40°C to 65°C (-40°F to 150°F)

75cm Elliptical Antenna, offset feed

Full 360° in overlapping 200° sectors

Elevation over Azimuth

Circular, Auto-switching

Variable, 10°/sec typ.

Variable 5°/sec typ.

GPS antenna Compass $\pm 2^{\circ}$ Tilt sensor $\pm 0.1^{\circ}$

0 - 90°

0.1º/sec

72 km/h (45 mph) -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

Receive

17.5 dB/K

48.4 dBWi

RG6

18.30 - 20.20

Electrical

Rx & Tx Cable Control Cables Standard Optional

Frequency (GHz) Feed Interface (Circular) Nominal G/T Nominal EIRP 2 RG6 cables - 10 m (33 ft) each

10 m (33 ft) Ext. Cable up to 60 m (200 ft) available

> **Transmit** 28.10 - 30.00 RG6

RF Interface

Radio Mounting Coaxial Feed Arm RG6U from Transceiver to Base Connector

Physical

Motors

Electrical Interface

Mounting Plate	L: 131 cm	(51.6")
	W: 45 cm	(17.7″)
Stowed Reflector Ext. Dims	L: 145 cm	(57")
	W: 76 cm	(29.9")
	H: 30 cm	(11.8″)
Deployed Height	122 cm	(48")
Platform Weight	52 kg	(115 lbs)

24VDC

ciNetVu°

by C-COM Satellite Systems Inc.

8 Amp (Max.)

Shipping Weights & Dimensions*

System, with controller and standard set of cables, accessories Crate (including Reflector, Feed/Transceiver): 185.5 cm \times 112 cm \times 68.5 cm (73" \times 44" \times 27"), 127 kg (280 lbs) Crate (no Reflector, no Feed/Transceiver): 185.5 cm \times 112 cm \times 68.5 cm (73" \times 44" \times 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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Specifications are subject to change

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.



Features

• One-Piece high surface accuracy, offset feed, steel reflector

ciNetVu°

by C-COM Satellite Systems Inc.

- · 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





Stowed (with pod option)

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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Specifications are subject to change

Ka-98G

TECHNICAL SPECIFICATIONS

Mechanical

Reflector Platform Geometry **Deployment Sensors**

Azimuth Flevation Polarization **Elevation Deploy Speed** Azimuth Deploy Speed Peaking Speed

Elevation over Azimuth GPS antenna Compass ± 2° Tilt sensor ± 0.1° Full 360° in overlapping 200° sectors 0 - 90° LHCP/RHCP (Motorized Option Available) Variable 2°/sec typ. Variable 15°/sec Max., 10°/sec typ. 0.1º/sec

98 cm Elliptical Antenna, offset feed

Environmental

Survival Wind Deployed Wind Stowed Temperature Operational Wind Temperature

160 km/h (100 mph) 225 km/h (140 mph) -40°C to 65°C (-40°F to 150°F)

72 km/h (45 mph) -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

Receive

RG6

-3.5

1.3:1

19.20 - 20.20

29 - 25 Log Ø

32-25 Log Ø

-10 (typical)

> -24 dB

Electrical

Rx & Tx Cables Control Cables Standard Optional

2 RG6 cables -10 m (33 ft) each

10 m (33 ft) Ext. Cable up to 60 m (200 ft) available

Frequency (GHz) Feed Interface (Circular) Midband Gain (+-0.2 dBi) Antenna Noise Temp. (K) Sidelobe Envelope Co-Pol (dBi) $100\lambda / D < \emptyset < 20^{\circ}$ 20° < Ø < 26.3° 26.3° < Ø < 48° 48° < Ø < 180° Cross-Polarization VSWR

Transmit 29.50 - 30.0 RG6 43.50 @19.75 GHz 46.60 @29.75 GHz 30° EL= 62 Max.

> -22 dB

RF Interface

Radio Mounting Coaxial

Feed Arm RG6U from Transceiver to Base Connector

ciNetVu°

by C-COM Satellite Systems Inc.

Physical

Mounting Plate Stowed Reflector Ext. Dims (without reflector pod) Stowed Reflector Ext. Dims (with reflector pod) Deployed Height Platform Weight Reflector back cover Pod alone **Total Platform Weight** (without reflector pod) **Total Platform Weight** (with reflector pod)

W: 45 cm (17.7") L: 161 cm (63.5") L: 164.8 cm (64.9") W: 100 cm (39.5") H: 30 cm (11.8") L: 178.8 cm (70.4") W: 113 cm (44.5") H: 30 cm (11.8") 151 cm (59.5") 54 kg (119 lbs) 2.27 kg (5 lbs) 6.8 kg (15 lbs) 56.3 kg (124 lbs) 63 kg (139 lbs)

Motors

Electrical Interface

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)

24VDC

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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Specifications are subject to change

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® 7024C Controller providing fast satellite acquisition within minutes, anytime anywhere.



Features

• One-Piece high surface accuracy, offset feed, steel reflector

ciNetVu°

by C-COM Satellite Systems Inc.

- Heavy duty feed arm now supports both type of Transceivers: Standard Tria and new eTRIA
- Designed to work with the iNetVu[®] 7024C 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 Skyware Global 98 cm Ka antenna and 4W transceiver
- · 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.

* http://www.eutelsat.com/files/contributed/support/pdf/Eutelsat_Broadband_Services.pdf (P.15)



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Specifications are subject to change

Ka-98V

TECHNICAL SPECIFICATIONS

Mechanical

Reflector Platform Geometry **Deployment Sensors**

Azimuth Elevation **Elevation Deploy Speed** Azimuth Deploy Speed Peaking Speed

Environmental

Survival Wind Deployed Wind Stowed Temperature Operational Wind Temperature

160 km/h (100 mph) 225 km/h (140 mph) -40°C to 65°C (-40°F to 150°F)

98 cm Elliptical Antenna, offset feed

Full 360° in overlapping 200° sectors

Variable 15°/sec Max., 10°/sec typ.

Elevation over Azimuth

Variable 2°/sec typ.

GPS antenna Compass ± 2° Tilt sensor ± 0.1°

0 - 90°

0.1º/sec

72 km/h (45 mph) -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

Receive

29 - 25 Log Ø

32-25 Log Ø

-10 (typical)

RG6

-3.5

1.3:1

Electrical

Rx & Tx Cables Control Cables Standard Optional

2 RG6 cables -10 m (33 ft) each

10 m (33 ft) Ext. Cable up to 60 m (200 ft) available

Frequency (GHz) Feed Interface (Circular) Midband Gain (+-0.2 dBi) Antenna Noise Temp. (K) Sidelobe Envelope Co-Pol (dBi) $100\lambda / D < \emptyset < 20^{\circ}$ 20° < Ø < 26.3° 26.3° < Ø < 48° 48° < Ø < 180° VSWR

Transmit 18.30 - 20.20 28.10 - 30.0 RG6 43.50 @19.75 GHz 46.60 @29.75 GHz 30° EL= 62 Max.

RF Interface Radio Mounting

Coaxial

Feed Arm RG6U from Transceiver to Base Connector

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by C-COM Satellite Systems Inc.

Physical

Mounting Plate Stowed Reflector Ext. Dims (without reflector pod) Stowed Reflector Ext. Dims (with reflector pod) Deployed Height Platform Weight Reflector back cover Pod alone **Total Platform Weight** (without reflector pod) **Total Platform Weight** (with reflector pod)

W: 45 cm (17.7") L: 161 cm (63.5") L: 164.8 cm (64.9") W: 100 cm (39.5") H: 30 cm (11.8") L: 178.8 cm (70.4") W: 113 cm (44.5") H: 30 cm (11.8") 151 cm (59.5") 54 kg (119 lbs) 2.27 kg (5 lbs) 6.8 kg (15 lbs) 56.3 kg (124 lbs)

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)

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



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Specifications are subject to change

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Ка-98Н

TECHNICAL SPECIFICATIONS

The iNetVu® Ka-98H 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.



Application Versatility

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



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Specifications are subject to change

Ka-98H

TECHNICAL SPECIFICATIONS

Mechanical

Reflector Platform Geometry **Deployment Sensors**

Azimuth Elevation **Elevation Deploy Speed** Azimuth Deploy Speed Peaking Speed

Environmental

Survival Wind Deployed Wind Stowed Temperature Operational Wind Temperature

160 km/h (100 mph) 225 km/h (140 mph) -40°C to 65°C (-40°F to 150°F)

98 cm Elliptical Antenna, Offset feed

Full 360° in overlapping 200° sectors

Variable 15°/sec Max., 10°/sec typ.

Elevation over Azimuth

GPS antenna

Compass ± 2° Tilt sensor ± 0.1

Variable 2°/sec typ.

0 - 90°

0.1º/sec

72 km/h (45 mph) -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

Receive

RG6

Electrical

Rx & Tx Cables Control Cables Standard Optional

2 RG6 cables - 10 m (33 ft) each

10 m (33 ft) Ext. Cable up to 60 m (200 ft) available

Frequency (GHz)		
Feed Interface (Circular)		
Midband Gain $(\pm 0.2 \text{ dBi})$		
Antenna Noise Temp. (K)		
Sidelobe Envelope, Co-Pol (dBi)		
100λ / D < Ø < 20°		
20° < Ø < 26.3°		
26.3° < Ø < 48°		
48° < Ø < 180°		
Cross-Polarization		
VSWR		

Transmit 19.20 - 20.20 29.50 - 30.00 RG6 43.50 @19.75 GHz 46.60 @29.75GHz 30° EL= 62 Max.

32-25 Log Ø -10 (typical) > -22 dB

Notes:

⁽¹⁾ Supported Radios: Spaceway or Jupiter. Please specify which radio being used when ordering. http://www.avantiplc.com/avanti-approved-compatibility

29 - 25 Log Ø -3.5

> -24 dB

1.3:1

RF Interface

Radio Mounting Coaxial

RG6U from Transceiver to Base Connector

Physical

Mounting Plate	L: 161 cm (63.5")	W: 45 cm (17.7")
Stowed Reflector Ext. Dims	L: 164.8 cm (64.9")	W: 100 cm (39.5")
(without reflector pod)	H: 30 cm (11.8")	
Stowed Reflector Ext. Dims	L: 178.8 cm (70.4")	W: 113 cm (44.5")
(with reflector pod)	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)	

24VDC

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Feed Arm⁽¹⁾

Motors

Electrical Interface

8 Amp (Max.)

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) 7024C 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



Specifications are subject to change

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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"

iNetVu

by C-COM Satellite Systems Inc.

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.



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Specifications are subject to change

Ka-98H/Jup

TECHNICAL SPECIFICATIONS

Mechanical

Reflector Platform Geometry **Deployment Sensors**

Azimuth Elevation **Elevation Deploy Speed** Azimuth Deploy Speed Peaking Speed

Environmental

Survival Wind Deployed Wind Stowed Temperature Operational Wind Temperature

160 km/h (100 mph) 225 km/h (140 mph) -40°C to 65°C (-40°F to 150°F)

98 cm Elliptical Antenna, Offset feed

Full 360° in overlapping 200° sectors

Variable 15°/sec Max., 10°/sec typ.

Elevation over Azimuth

GPS antenna

Compass ± 2° Tilt sensor ± 0.1

Variable 2º/sec typ.

0 - 90°

0.1º/sec

72 km/h (45 mph) -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 10 m (33 ft) Ext. Cable Standard Optional up to 60 m (200 ft) available

Freque Feed In Midbar Antenr Sidelok Cross-F VSWR

	Receive	Transmit
ncy (GHz)	19.20 - 20.20	29.50 - 30.00
nterface (Circular)	RG6	RG6
nd Gain (± 0.2 dBi)	43.50 @19.75 GHz	46.60 @29.75GHz
na Noise Temp. (K)	30° EL= 62 Max.	
be 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)	
Polarization	> -24 dB	> -22 dB
	1.3:1	

Notes:

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

RF Interface

Radio Mounting Coaxial

RG6U from Transceiver to Base Connector

Physical

Mounting Plate	L: 161 cm (63.5")	W: 45 cm (17.7")
Stowed Reflector Ext. Dims	L: 164.8 cm (64.9")	W: 100 cm (39.5")
	H: 30 cm (11.8″)	
Deployed Height	151 cm (59.5″)	
Platform Weight	54 kg (119 lbs)	

24VDC

ciNetVu°

by C-COM Satellite Systems Inc.

Feed Arm⁽¹⁾

Motors

Electrical Interface

8 Amp (Max.)

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



Specifications are subject to change

May 2016

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Ka-1202V

TECHNICAL SPECIFICATIONS

The iNetVu[®] Ka-1202V Drive-Away antenna system is a sleek, simple to operate auto-deploy VSAT terminal which can be mounted on the roof of a vehicle. It is suitable for the most demanding applications. All axes have very low backlash and work together seamlessly with sophisticated integral sensors and the iNetVu[®] 7710 Controller to ensure excellent pointing accuracy.



Field Upgradable to Ku-Band

<u>ciNetVu</u>°

by C-COM Satellite Systems Inc.

Features

- 1.2m Offset, prime focus, thermoset-molded reflector with back cover
- Low stow height
- Designed to work with the iNetVu® 7710 Controller
- Supports hand cranks
- One button, auto-pointing controller acquires ViaSat or KA-SAT Ka-band satellite within 2 minutes
- · Optimal high-precision antenna pointing
- · Includes jog controller functions
- Remote access and operation via network, web and other interfaces
- Modular design makes all major aspects of the antenna field serviceable
- Supports ViaSat/General Dynamics 1.2m Ka antenna
- 2-piece thermoset-molded reflector (optional)
- Compliant with commercial Ka Services (Exede & toowayTM)
- Standard 2 year warranty



Application Versatility

The Ka-1202V drive-away 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 applications that require a quick, simple set-up typically for industries such as SNG, Disaster Management, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services.



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Specifications are subject to change

Ka-1202V

TECHNICAL SPECIFICATIONS

Mechanical

Reflector Size & Material Platform Geometry Offset Angle Antenna Optics Azimuth Travel Elevation Look Angle Elevation Deploy Speed Azimuth Deploy Speed Peaking Speed Motor Voltage 1.2m Glass Fibre Reinforced Polyester SMC⁽¹⁾ Elevation over Azimuth N/A One-piece offset feed, prime focus ± 200° 0° to 90° 2°/sec 6°/sec 0.2°/sec 24 VDC 10 Amp (Max.)

Environmental

Wind loading Operational Survival Deployed Stowed Temperature Operational Survival Solar Radiation Rain Humidity

72 km/h (45 mph)

112 km/h (70 mph) 160 km/h (100 mph)

-30° to 55° C (-22° to 131° F) -40° to 65° C (-40° to 149° F) 360 BTU/h/sq. ft. 1.3 cm/h (0.51 in/h) 0-100% (condensing)

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 Control Cables Standard Optional Single IFL, RG6 cable - 10 m (33 ft)

10 m (33 ft) Extension Cable Up to 30 m (100 ft) available

RF Interface

Radio Mounting

Feed arm/Inside vehicle

Physical

Stowed dimensions

Reflector Weight (including back cover) Total Platform Weight H: 35 cm (13.8″) 16 kg (35.2 lbs)

L: 203 cm (79.9")

W: 124 cm (48.8")

82 kg (180 lbs)

ciNetVu°

by C-COM Satellite Systems Inc.

Ka (Circular)

RG6 F Type	
Receive	Transmit
19.70 - 20.20	29.50 - 30.00
46.50	49.60
23.6 dB/K	
20° EL = 107 / 40° EL	. = 89
29-25 Log Θ	
-3.5	
32-25 Log Θ	
-10 (Typical)	
>22.0 dB	>22.0 dB
1.3:1	1.3:1
	RG6 F Type Receive 19.70 - 20.20 46.50 23.6 dB/K 20° EL = $107 / 40^{\circ}$ EL 29-25 Log Θ -3.5 32-25 Log Θ -10 (Typical) >22.0 dB 1.3:1

Shipping Weights & Dimensions*

Platform Crated: 211 cm x 41 cm x 61 cm (83" x 16" x 24"), 121 kg (267 lbs) Reflector Crate: 142 cm x 15 cm x 130 cm (56" x 6" x 51"), 22 kg (48 lbs)

Total Weight: 143 kg (315 lbs)

Transportable Case Options:

Platform: 211 cm x 65 cm x 45 cm (83" x 25.75" x 17.75")132 kg (290 lbs) Reflector: 1- piece:

127 cm x 122 cm x 20 cm (50" x 48" x 8"), 45.5 kg (100 lbs) Reflector: 2- piece: (Optional)

132 cm x 31 cm x 76 cm (52" x 12" x 30"), 34 kg (74 lbs)

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

Notes: (1) Antenna based on General Dynamics



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Ka-1202G

TECHNICAL SPECIFICATIONS

The iNetVu® Ka-1202G Drive-Away antenna system is a sleek, simple to operate auto-deploy VSAT terminal which can be mounted on the roof of a vehicle. It is suitable for the most demanding applications. All axes have very low backlash and work together seamlessly with sophisticated integral sensors and the iNetVu® 7710 Controller to ensure excellent pointing accuracy.



Field Upgradable to Ku-Band

<u>ciNetVu</u>°

by C-COM Satellite Systems Inc.

Features

- 1.2m Offset, prime focus, thermoset-molded reflector with back cover
- Low stow height
- · Designed to work with the iNetVu® 7710 Controller
- Supports hand cranks
- One button, auto-pointing controller acquires Ka-band satellite within 2 minutes
- · Optimal high-precision antenna pointing
- · Includes jog controller functions
- Remote access and operation via network, web and other interfaces
- Modular design makes all major aspects of the antenna field serviceable
- Supports General Dynamics 1.2m Ka antenna
- 2-piece thermoset-molded reflector (optional)
- Compliant with commercial Ka Services (Avanti/Gilat)
- Optional 3W & 5W transceivers; higher BUCs also supported
- Standard 2 year warranty

Application Versatility

The Ka-1202G drive-away 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 applications that require a quick, simple set-up typically for industries such as SNG, Disaster Management, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services.



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Specifications are subject to change Draft

Ka-1202G

TECHNICAL SPECIFICATIONS

Mechanical

Reflector Size & Material Platform Geometry Offset Angle Antenna Optics Azimuth Travel Elevation Look Angle Elevation Deploy Speed Azimuth Deploy Speed Peaking Speed Motor Voltage 1.2m Glass Fibre Reinforced Polyester SMC ⁽¹⁾ Elevation over Azimuth N/A One-piece offset feed, prime focus ± 200° 0° to 90° 2°/sec 6°/sec 0.2°/sec 24 VDC 10 Amp (Max.)

Environmental

Wind loading Operational Survival Deployed Stowed Temperature Operational Survival Solar Radiation Rain Humidity

72 km/h (45 mph)

112 km/h (70 mph) 160 km/h (100 mph)

-30° to 55° C (-22° to 131° F) -40° to 65° C (-40° to 149° F) 360 BTU/h/sq. ft. 1.3 cm/h (0.51 in/h) 0-100% (condensing)

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 Control Cables Standard Optional 2 RG6 cables

10 m (33 ft) Extension Cable Up to 30 m (100 ft) available

RF Interface

Radio Mounting

Feed arm/Inside vehicle

Physical

Stowed dimensions

Reflector Weight (including back cover) Total Platform Weight H: 35 cm (13.8") 16 kg (35.2 lbs)

L: 203 cm (79.9")

W: 124 cm (48.8")

82 kg (180 lbs)

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Ka (Circular)

Feed Interface	RG6 F Type	
	Receive	Transmit
Frequency (GHz)	19.20 - 20.20	29.50 - 30.00
Midband Gain Co-Pol (± 0.2dBi)	46.50	49.60
G/T	23.6 dB/K @ 19.95 GH	lz
Antenna Noise Temp. (K)	20° EL = 107 / 40° EL	. = 89
Sidelobe Envelope, Co-Pol (dBi)		
1.5°<Θ<20°	29-25 Log Θ	
20°<Θ<26.3°	-3.5	
26.3°<Θ<48°	32-25 Log Θ	
48°<Θ<180°	-10 (Typical)	
Cross-Pol Within 1dB BW	>22.0 dB	>22.0 dB
VSWR	1.3:1	1.3:1

Shipping Weights & Dimensions*

Platform Crated: 211 cm x 41 cm x 61 cm (83" x 16" x 24"), 121 kg (267 lbs) Reflector Crate: 142 cm x 15 cm x 130 cm (56" x 6" x 51"), 22 kg (48 lbs)

Total Weight: 143 kg (315 lbs)

Transportable Case Options:

Platform: 211 cm x 65 cm x 45 cm (83" x 25.75" x 17.75")132 kg (290 lbs) Reflector: 1- piece:

127 cm x 122 cm x 20 cm (50" x 48" x 8"), 45.5 kg (100 lbs) Reflector: 2- piece: (Optional)

132 cm x 31 cm x 76 cm (52" x 12" x 30"), 34 kg (74 lbs)

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

Draft

Notes:

⁽¹⁾ Antenna based on General Dynamics/Skyware Global

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Specifications are subject to change





TECHNICAL SPECIFICATIONS

by C-COM Satellite Systems Inc.







SOTM Ka Terminal

Features

- Ka SOTM Antenna Terminal Operates while vehicle is moving
- Automatic satellite acquisition and tracking
- Operates in emerging Ka-band services worldwide
- Provides affordable broadband connectivity via Satellite to mobile ground platforms (Land mobile)
- Low Profile Antenna < 33 cm in height with Look angles 10°-90°
- Compliant with FCC and ITU for Mobile VSAT (FCC 25.222, 25.138 VMES)
- Affordable, Rugged and Highly Reliable
- Operational wind speed of 180 km/h or better
- Compliant with ViaSat HTS and similar Ka-band networks

Application Versatility

The inMotion Ka SOTM Antenna provides an "always-on" broadband connectivity directly to any vehicle. Ideally suited for SNG, First Responders, Disaster Management, Trains, Public Transportation, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services.



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inMotion

PRELIMINARY

TECHNICAL SPECIFICATIONS

ciNetVu[®]

by C-COM Satellite Systems Inc.

Mechanical

Platform Size Platform Geometry Azimuth Travel Elevation Look Angle Polarization Elevation Speed Azimuth Speed Acceleration Max. Acquisition Time Re-Acquisition Time 1.3m diameter Elevation over Azimuth 0° to 360° Continuous 10° to 90° Dual Circular (Electronic Switching) 100°/sec 100°/sec 200°/sec² < 60 sec (Initial) < 20 sec (Depending on Modem)

Environmental

Wind loading Operational Survival Temperature Operational Survival Humidity IP Protection Vibration Shock

180 km/h (112 mph) 250 km/h (156 mph)

-30° to 60° C (-22° to 140° F) -40° to 70° C (-40° to 158° F) 0-100% (condensing) IP66 on Connectors, IP65 on Electronic Parts per MIL-STD-810F, Truck/Trailer/Tracked per IEC 60068-2-27

Physical

Antenna Dimensions

Weight Mounting L: 130 cm (51.2") W: 130 cm (51.2") H: 33 cm (13") < 40 kg (88 lbs) Directly on Roof or Roof Racks

Ka (Circular)

 Transmit Power
 3 W ⁽¹⁾ Transmit Power

 Feed
 2 Port XPC

 Receive
 Receive

 Frequency (GHz)
 18.30 - 20.

 G/T
 > 13.5 dB/

 EIRP Spectral Density Pattern
 Compliant

 25.226, 25
 EIRP

 43 dB at 1
 1

3 W ⁽¹⁾ Tranceiver 2 Port XPol **Receive Transmit** 18.30 - 20.20 28.10 - 30.00 > 13.5 dB/K at 45° Elev. Compliant with FCC 25.138, 25.222, 25.226, 25.227 for VMES 43 dB at 1dB Compression & 45° Elev.

Shipping Weights & Dimensions*

Platform Crate : 138cm x138cm x 52cm (54.3" x 54.3" x 20.5"); 90 kg (198.4 lbs)

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

Electrical

Rx & Tx Cables Control Cables Voltage / Power 2 RG6 Cables - 10 m (33 ft) each 10 m (33 ft) 24V DC or 120 VAC



Notes: (1) Configurable for higher watt radios



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May 2016

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Specifications are subject to change



FLY-75V

TECHNICAL SPECIFICATIONS

The iNetVu® FLY-75V Flyaway Antenna is a 75 cm satellite antenna system which is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu® 7710 Controller providing fast satellite acquisition within minutes, anytime anywhere. It can be assembled in 10 minutes by one person.

"Authorized for use on ViaSat Exede[®] Enterprise and on KA-SAT NEWSSPOTTER NEWSGATHERING service by Eutelsat*"



Features

One-Piece, high surface accuracy, offset feed, steel reflector

ciNetVu°

by C-COM Satellite Systems Inc.

- Heavy duty feed arm now supports both type of Transceivers: Standard Tria and new eTRIA
- Designed to work with the iNetVu[®] 7710 Controller
- Works seamlessly with the world's emerging commercial ViaSat/KA-SAT satellite Surfbeam II/PRO Auto-acquire modems
- Auto beam select on KA-SAT Tooway services
- 2 Axis motorization
- · Supports manual control when required
- One button, auto-pointing controller acquires Ka-band satellite within 2 minutes
- Captive hardware / Fasteners
- 10 minute assembly by one person, no tools required
- Compact packaging; 2 ruggedized cases
- Supports Skyware Global 75 cm Ka antenna
- Standard 2 year warranty



Application Versatility

If you operate in Ka-band, the FLY-75V 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 Flyaway 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.

* http://www.eutelsat.com/files/contributed/support/pdf/Eutelsat_Broadband_Services.pdf (p.14)



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Specifications are subject to change

RF Interface

Coaxial

Physical

Motors

Electrical Interface

Radio Mounting

Case 1: Tripod/Reflector

Case 2: Controller/AZ/EL

FLY-75V

TECHNICAL SPECIFICATIONS

Mechanical

Reflector Platform Geometry Deployment Sensors

Azimuth Elevation Polarization Elevation Deploy Speed Azimuth Deploy Speed Peaking Speed

Environmental

Wind loading Operational (no ballast) Operational (with ballast) Temperature Operational Survival

50 km/h (30 mph) 72 km/h (45 mph)

-30° to 60° C (-22° to 140° F) -40° to 65° C (-40° to 149° F)

Single IFL, RG6 cable - 10 m (33 ft)

75cm Elliptical Antenna, offset feed

Elevation over Azimuth

Circular, Auto-switching

Variable, 3°/sec typ.

Variable 3°/sec typ.

GPS antenna Compass $\pm 2^{\circ}$ Tilt sensor $\pm 0.1^{\circ}$

±175°

0 - 90°

0.1º/sec

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 Rating: IP-66

48.4 dBWi

Electrical

Rx & Tx Cable Control Cables Standard Optional

Frequency (GHz) Feed Interface (Circular) Nominal G/T Nominal EIRP up to 60 m (200 ft) available **Receive Transmit** 18.30 - 20.20 28.10 - 30.00 RG6 RG6 17.5 dB/K

10 m (33 ft) Ext. Cable

Shipping Weights & Dimensions*

Case 1: 85 cm x 85 cm x 29 cm (33.5" x 33.5" x 11.5"); 32 kg

Case 2: 44.5 cm x 80 cm x 38 cm (17.5" x 31.5" x 15.5"); 32 kg

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

24VDC

ciNetVu°

by C-COM Satellite Systems Inc.

Feed Arm

L: 85 cm (33.5")

H: 29 cm (11.5")

L: 44.5 cm (17.5")

H: 38 cm (15.5")

RG6U from transceiver to tripod base

W: 85 cm (33.5")

W: 80 cm (31.5")

8 Amp (Max.)

32 Kg

32 Kg





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Specifications are subject to change

FLY-98G

TECHNICAL SPECIFICATIONS

The iNetVu® FLY-98G Flyaway Antenna is a 98 cm satellite antenna system which is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu® 7710 Controller providing fast satellite acquisition within minutes, anytime anywhere. It can be assembled in 10 minutes by one person.



Compliant for use on Avanti Hylas Ka Satellite Services

ciNetVu[®]

by C-COM Satellite Systems Inc.

Features

- One-Piece, high surface accuracy, offset feed, steel reflector
- Heavy duty feed arm capable of supporting up to 5kg (10lbs) Ka transceiver
- Designed to work with the iNetVu® 7710 Controller
- Works seamlessly with the world's emerging commercial Ka modems and services
- 2 Axis motorization (Optional motorized 3rd axis)
- · Supports manual control when required
- One button, auto-pointing controller acquires Ka-band satellite within 2 minutes
- Field upgradable to Ku-band
- Captive hardware / Fasteners
- 10 minute assembly by one person, no tools required
- · Compact packaging; 3 ruggedized cases
- Supports Skyware Global 98 cm Ka antenna
- Standard 2 year warranty

Application Versatility

If you operate in Ka-band, the FLY-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. This next generation Flyaway 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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Specifications are subject to change

FLY-98G

TECHNICAL SPECIFICATIONS

Mechanical

Reflector **Platform Geometry Deployment Sensors**

Azimuth Elevation Polarization **Elevation Deploy Speed** Azimuth Deploy Speed Peaking Speed

Environmental

Wind loading Operational (no ballast) Operational (with ballast) Temperature Operational Survival Water Ingress Rating

50 km/h (30 mph) 72 km/h (45 mph)

-30° to 60° C (-22° to 140° F) -40° to 65° C (-40° to 149° F) IP-66

98 cm Elliptical Antenna, offset feed

Elevation over Azimuth

± 45°, Circular Auto

Variable, 3°/sec typ.

Variable 3º/sec typ.

GPS antenna Compass ± 2° Tilt sensor ± 0.1°

± 175°

0 - 90°

0.1º/sec

Electrical

Rx & Tx Cables Control Cables Standard Optional

2 RG6 cables -10 m (33 ft) each

10 m (33 ft) Ext. Cable up to 60 m (200 ft) available

Rocoivo

	neccive	manann
Frequency (GHz)	19.20 - 20.20	29.50 - 3
Feed Interface (Circular)	RG6	RG6
Midband Gain (+-0.2 dBi)	43.50 @19.75 GHz	46.60 @2
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	

Transmit 9.50 - 30.0 RG6 6.60 @29.75 GHz

ciNetVu°

by C-COM Satellite Systems Inc.

RF Interface

Radio Mounting Coaxial

Feed Arm RG6U F Type to tripod base

Physical

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.5″)
)

Motors

Electrical Interface

8 Amp (Max.)

Shipping Weights & Dimensions*

Skid: 132 cm x 137 cm x 121.9 cm (52" x 54" x48") 23.1 Kg (51lbs) Total weight of system in cases: 90.3 Kg (199 lbs) Total weight of system in cases on skid: 113.4 Kg (250 lbs)

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

24VDC



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FLY-98V

TECHNICAL SPECIFICATIONS

The iNetVu® FLY-98V Flyaway Antenna is a 98 cm satellite antenna system which is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu® 7710 Controller providing fast satellite acquisition within minutes, anytime anywhere. It can be assembled in 10 minutes by one person.

"Compliant for use on ExedeSM Ka Service by ViaSat and on KA-SAT NEWSSPOTTER NEWSGATHERING service by Eutelsat"



Features

• One-Piece, high surface accuracy, offset feed, steel reflector

ciNetVu®

by C-COM Satellite Systems Inc.

- Heavy duty feed arm capable of supporting up to 5kg (10lbs) Ka transceiver
- Designed to work with the iNetVu[®] 7710 Controller
- Works seamlessly with the world's emerging commercial ViaSat /KA-SAT satellite Surfbeam II/PRO Auto-acquire modems
- Auto beam select on KA-SAT Tooway services
- · 2 Axis motorization
- · Supports manual control when required
- One button, auto-pointing controller acquires Ka-band satellite within 2 minutes
- Field upgradable to Ku-band
- Captive hardware / Fasteners
- · 10 minute assembly by one person, no tools required
- Compact packaging; 3 ruggedized cases
- Supports Skyware Global 98 cm Ka antenna
- · Standard 2 year warranty

Application Versatility

If you operate in Ka-band, the FLY-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 Flyaway 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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Specifications are subject to change

FLY-98V

TECHNICAL SPECIFICATIONS

Mechanical

Reflector Platform Geometry **Deployment Sensors**

Azimuth Elevation Polarization **Elevation Deploy Speed** Azimuth Deploy Speed Peaking Speed

Environmental

Wind loading Operational (no ballast) Operational (with ballast) Temperature Operational Survival Water Ingress Rating

Electrical

Rx & Tx Cable Control Cables Standard Optional

50 km/h (30 mph) 72 km/h (45 mph)

-30° to 60° C (-22° to 140° F) -40° to 65° C (-40° to 149° F) IP-66

98 cm Elliptical Antenna, offset feed

Elevation over Azimuth

Circular, Auto-switching

Variable, 3°/sec typ.

Variable 3°/sec typ.

GPS antenna Compass ± 2° Tilt sensor ± 0.1°

±175°

0 - 90°

0.1º/sec

Single IFL, RG6 cable - 10 m (33 ft)

10 m (33 ft) Ext. Cable up to 60 m (200 ft) available

Frequency (GHz) Feed Interface (Circular) Midband Gain (+-0.2 dBi) Antenna Noise Temp. (K) Sidelobe Envelope Co-Pol (dBi) $100\lambda / D < \emptyset < 20^{\circ}$ 20° < Ø < 26.3° 26.3° < Ø < 48° 48° < Ø < 180° VSWR

18.30 - 20.20 28.10 - 30.00 RG6 43.50 @19.75 GHz 46.60 @29.75 GHz 30° EL= 62 Max. 29 - 25 Log Ø

Transmit

-3.5 32-25 Log Ø -10 (typical) 1.3:1

Receive

RG6

Radio Mounting Coaxial

RG6U F Type to tripod base

Feed Arm

ciNetVu°

by C-COM Satellite Systems Inc.

Physical

RF Interface

Case 1: Reflector L: 109 cm (43") W: 109 cm (43") H: 29 cm (11.5") 28.6 Kg (63 lbs) Case 2: Tripod/Feed arm L: 122 cm (48") W: 58 cm (23") H: 28cm (11") 27.7 Kg (61 lbs) Case 3: Controller/AZ/EL L: 44.5 cm (17.5") W: 80 cm (31.5") H: 38 cm (15.5") 34 Kg (75 lbs)

24VDC

Motors

Electrical Interface

8 Amp (Max.)

Shipping Weights & Dimensions*

Skid: 132 cm x 137 cm x 121.9 cm (52" x 54" x48") 23.1 Kg (51lbs) Total weight of system in cases: 90.3 Kg (199 lbs) Total weight of system in cases on skid: 113.4 Kg (250 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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Specifications are subject to change

FLY-98H

TECHNICAL SPECIFICATIONS

The iNetVu® FLY-98H Flyaway Antenna is a 98 cm satellite antenna system which is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu® 7710 Controller providing fast satellite acquisition within minutes, anytime anywhere. It can be assembled in 10 minutes by one person.



Compliant for use on Avanti & Yahsat Satellite Services

ciNetVu[®]

by C-COM Satellite Systems Inc.

Features

- One-Piece, high surface accuracy, offset feed, steel reflector
- Heavy duty feed arm capable of supporting up to 5kg (10lbs) Ka transceiver
- Designed to work with the iNetVu® 7710 Controller
- Works seamlessly with the world's emerging commercial Ka modems and services
- 2 Axis motorization
- · Supports manual control when required
- One button, auto-pointing controller acquires Ka-band satellite within 2 minutes
- Captive hardware / Fasteners
- 10 minute assembly by one person, no tools required
- Compact packaging; 3 ruggedized cases
- Supports Skyware Global 98 cm Ka antenna
- Works with Yahsat (MENA)⁽¹⁾ and Avanti (Europe)⁽¹⁾
- Standard 2 year warranty

Application Versatility

If you operate in Ka-band, the FLY-98H 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 Flyaway 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.

⁽¹⁾ Uses JUPITER Radio



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Specifications are subject to change

May <u>2016</u>

FLY-98H

TECHNICAL SPECIFICATIONS

Mechanical

Reflector Platform Geometry Deployment Sensors

Azimuth Elevation Polarization Elevation Deploy Speed Azimuth Deploy Speed Peaking Speed

Environmental

Wind loading Operational (no ballast) Operational (with ballast) Temperature Operational Survival Water Ingress Rating

Electrical

Rx & Tx Cables Control Cables Standard Optional 50 km/h (30 mph) 72 km/h (45 mph)

-30° to 60° C (-22° to 140° F) -40° to 65° C (-40° to 149° F) IP-66

98 cm Elliptical Antenna, offset feed

Elevation over Azimuth

± 45°, Circular Manual

Variable, 3°/sec typ.

Variable 3°/sec typ.

GPS antenna Compass $\pm 2^{\circ}$ Tilt sensor $\pm 0.1^{\circ}$

±175°

0 - 90°

0.1º/sec

2 RG6 cables -10 m (33 ft) each

10 m (33 ft) Ext. Cable up to 60 m (200 ft) available

Receive

Frequency (GHz)	19.20 - 20		
Feed Interface (Circular)	RG6		
Midband Gain (+-0.2 dBi)	43.50@1		
Antenna Noise Temp. (K)	30° EL= 6		
Sidelobe Envelope Co-Pol (dBi)			
100λ / D < Ø < 20°	29 - 25 Lo		
20° < Ø < 26.3°	-3.5		
26.3° < Ø < 48°	32-25 Log		
48° < Ø < 180°	-10 (typic		
Cross-Polarization	> -24 dB		
VSWR	1.3:1		

19.20 - 20.20 29.50 - 30.0 RG6 RG6 43.50 @19.75 GHz 46.60 @29.75 GHz 30° EL= 62 Max. 29 - 25 Log Ø -3.5 32-25 Log Ø -10 (typical)

Transmit

> -22 dB

RF Interface Radio Mounting

Coaxial

RG6U F Type to tripod base

Feed Arm

Physical

 Case 1: Reflector
 L: 109 cm (43")
 W: 109 cm (43")

 H: 29 cm (11.5")
 28.6 Kg (63 lbs)

 Case 2: Tripod/Feed arm
 L: 122 cm (48")
 W: 58 cm (23")

 H: 28cm (11")
 27.7 Kg (61 lbs)

 Case 3: Controller/AZ/EL
 L: 44.5 cm (17.5")
 W: 80 cm (31.5")

 H: 38 cm (15.5")
 34 Kg (75 lbs)

24VDC

ciNetVu°

by C-COM Satellite Systems Inc.

Motors

Electrical Interface

8 Amp (Max.)

Shipping Weights & Dimensions*

Skid: 132 cm x 137 cm x 121.9 cm (52" x 54" x48") 23.1 Kg (51lbs) Total weight of system in cases: 90.3 Kg (199 lbs) Total weight of system in cases on skid: 113.4 Kg (250 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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FLY-1202V

TECHNICAL SPECIFICATIONS

The new iNetVu® 1.2m Flyaway Ka-band Antenna System is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu® 7710 Controller and can be assembled in less than 15 minutes by one person. The antenna features a 2-piece segmented glass fibre reinforced reflector with compact pedestal and is designed to be cost-effective while providing exceptional performance in a light weight package.



Field Upgradable to Ku

ciNetVu[®]

by C-COM Satellite Systems Inc.

Features

- · One button auto-pointing controller
- 2 Axis motion Ka-band
- Airline transportable
- Supports manual control when required
- Designed to work with the iNetVu® 7710 Controller
- · Captive hardware / fasteners
- 1.2m offset, prime focus, 2-piece thermoset molded reflector
- Supports General Dynamic 1.2m antenna
- · No tools required for assembly / disassembly
- Less than 15 minutes assembly time, one person job
- Elevation-over-azimuth pedestal provides excellent stiffness characteristics and convenience for the user
- ViaSat/Eutelsat compliant
- Compact packaging, 4 ruggedized shipping cases
- · Minimal maintenance required
- Can be easily converted to support Ku-band
- Standard 2 year warranty

Application Versatility

If you operate in Ka-band, the FLY-1202V Flyaway 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 Disaster Management, Military, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services.



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Specifications are subject to change

FLY-1202V

TECHNICAL SPECIFICATIONS

Mechanical

Antenna Size & Material Platform Geometry Antenna optics Optional Offset angle Azimuth Elevation Polarization Elevation deploy speed Peaking speed

Elevation over azimuth 2-piece segmented 1-piece 16.97° ±175° 5° to 90° Circular, auto-switching Variable 6° / sec 0.2° / sec

1.2m Glass fibre reinforced polyester (1)

Ka-Band Frequency (GHz)

Midband Gain $(\pm .2dB)$ EIRP (Nominal) G/T (Nominal) Antenna Noise Temp. (K) Sidelobe Envelope Co-Pol (dBi) $1.5^{\circ} < \Theta < 20^{\circ}$ $20^{\circ} < \Theta < 26.3^{\circ}$ $26.3^{\circ} < \Theta < 48^{\circ}$ $48^{\circ} < \Theta < 180^{\circ}$ Cross Polarization Any angle of axis Feed Interface VSWR
 Receive
 Transmit

 19.70 - 20.20
 29.50 - 30.00

 46.5
 49.9

 54 dBWi @ 29.75 GHZ
 23.6 dB/K @ 19.95 GHZ

 20° EL= 107 / 40° EL= 89
 8

29-25 LogΘ -3.5 32-25 LogΘ -10 Typical -25 dB in 1dB contour -25 dB (Max.) Type F 1.3:1 (Max.)

Case 1: Reflector 134.6 x 40.6 x 94 cm (53" x 16" x 37"); 46.6kg (103 lbs)

Case 2: AZ/EL Base 61 x 38.1 x 50.8 cm (24" x 15" x 20"); 23.2kg (71.5lbs)

Case 4: 6U Rack Mount 74 x 51 x 72 cm (29" x 20" x 28"); 32 kg (70 lbs)

Case 3: Tripod/Feed 72.4 x 59.7 x 30.5 cm (58.5" x 23.5" x 12"); 33.4kg (73.3 lbs)

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by C-COM Satellite Systems Inc.

Environmental

Wind loading Operational No ballast or anchors With ballast or anchors Temperature Operational Survival Rain Operational Survival Solar radiation

48 km/h (30 mph) 72 km/h (45 mph)

-30° to 60° C (-22° to 140° F) -40° to 65° C (-40° to 149° F)

10 cm/h 15 cm/h 360 BTU / h / sq. ft

RF Interface

Radio mounting Coaxial Feed arm RG6U F type

Electrical

Electrical interface Rx & Tx cables Control cables Standard Optional 24VDC 8 Amp (Max.) Single IFL, RG6 cable - 10 m (33 ft)

10m (33 ft) ext. cable up to 60m (200 ft) available



TBD

Cases

Note: (1) Antenna based on General Dynamic

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Specifications are subject to change

FLY-1202G

TECHNICAL SPECIFICATIONS

The new iNetVu® 1.2m Flyaway Ka-band Antenna System is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu® 7710 Controller and can be assembled in less than 15 minutes by one person. The antenna features a 2-piece segmented glass fibre reinforced reflector with compact pedestal and is designed to be cost-effective while providing exceptional performance in a light weight package.



Field Upgradable to Ku

ciNetVu[®]

by C-COM Satellite Systems Inc.

Features

- · One button auto-pointing controller
- 2 Axis motion Ka-band; 3 Axis optional
- Airline transportable
- Supports manual control when required
- Designed to work with the iNetVu® 7710 Controller
- · Captive hardware / fasteners
- 1.2m offset, prime focus, 2-piece thermoset molded reflector
- Supports General Dynamic 1.2m antenna
- No tools required for assembly / disassembly
- · Less than 15 minutes assembly time, one person job
- Elevation-over-azimuth pedestal provides excellent stiffness characteristics and convenience for the user
- · Compliant with Avanti/Gilat Ka services
- Compact packaging, 4 ruggedized shipping cases
- · Minimal maintenance required
- · Can be easily converted to support Ku-band
- Optional 3W & 5W transceivers; higher BUCs also supported
- Standard 2 year warranty

Application Versatility

If you operate in Ka-band, the FLY-1202G Flyaway 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 Disaster Management, Military, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services.



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Specifications are subject to change

FLY-1202G

TECHNICAL SPECIFICATIONS

Mechanical

Antenna Size & Material Platform Geometry Antenna optics Optional Offset angle Azimuth Elevation Polarization Elevation deploy speed Peaking speed 1.2m Glass fibre reinforced polyester ⁽¹⁾ Elevation over azimuth 2-piece segmented 1-piece 16.97° ±175° 5° to 90° Circular, auto-switching Variable 6° / sec 0.2° / sec

Environmental

Wind loading Operational No ballast or anchors With ballast or anchors Temperature Operational Survival Rain Operational Survival Solar radiation

48 km/h (30 mph) 72 km/h (45 mph)

-30° to 60° C (-22° to 140° F) -40° to 65° C (-40° to 149° F)

10 cm/h 15 cm/h 360 BTU / h / sq. ft

RF Interface

Radio mounting Feed Feed arm RG6 F type

Electrical

Electrical interface Rx & Tx cables Control cables Standard Optional

24VDC 8 Amp (Max.) 2 RG6 cables

10m (33 ft) ext. cable up to 60m (200 ft) available Ka-Band

Receive Transmit 19.20 - 20.20 29.50 - 30.00 Frequency (GHz) Midband Gain (±.2dB) 46.5 49.9 EIRP (Nominal) 54 dBWi @ 29.75 GHz G/T (Nominal) 23.6 dB/K @ 19.95 GHz Antenna Noise Temp. (K) 20° EL= 107 / 40° EL= 89 Sidelobe Envelope Co-Pol (dBi) 1.5° <Θ <20° 29-25 LogΘ 20° <Θ < 26.3° -3.5 26.3° <Θ < 48° 32-25 LogΘ 48° <Θ <180° -10 Typical Cross Pol within 1dB contour > 22 dB > 22 dB VSWR 1.3:1 (Max.)

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Ka-Band (R/O Circular)

Frequency (GHz) Feed Interface

Cases

Case 1: Reflector 134.6 x 40.6 x 94 cm (53" x 16" x 37"); 46.6kg (103 lbs) Case 2: AZ/EL Base 61 x 38.1 x 50.8 cm (24" x 15" x 20"); 23.2kg (71.5lbs) Case 3: Tripod/Feed 72.4 x 59.7 x 30.5 cm (58.5" x 23.5" x 12");34.2Kg (74lbs); Case 4: 6U Rack Mount 74 x 51 x 72 cm (29" x 20" x 28"); 32 kg (70 lbs)

Receive

WR42

17.0 - 22.2

Shipping Weights & Dimensions

TBD

Note: ⁽¹⁾ Antenna based on General Dynamic/Skyware Global

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Specifications are subject to change

FMA-120Ka

TECHNICAL SPECIFICATIONS

The iNetVu[®] FMA-120Ka, Fixed Motorised Ka-band Antenna system is a self-pointing auto-acquire unit that can be mounted either as a permanent installation or on a portable fixed base. The antenna works seamlessly with the iNetVu[®] 7024C Controller.



Features

· 1.2m Offset, prime focus, thermoset-molded reflector

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- Designed to work with the iNetVu® 7024C controller
- Works seamlessly with the world's most popular Ka-band commercially available satellite services (Exede, Tooway and iDirect)
- Supports 3W and 5W Transceivers
- 2 Axis motorization
- · Supports manual control when required
- One button, auto-pointing controller acquires Ka-band satellites within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Eliminates costly repointing and network downtime due to inadvertent motion, satellite change, areas where ground shifts occur (earthquakes, landslides, mine blast zones, etc...)
- Can be easily relocated when mounted on a semi-permanent platform without the need for any specialized equipment
- Any compatible fixed installation can be easily converted and upgraded to a fully motorized system
- Supports ViaSat 1.2m Ka antenna, other Ka services can be supported as required
- · Can be easily converted to support Ku-band
- 1 year warranty



Application Versatility

If you operate in Ka-band, the FMA-120Ka 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, Mining, Disaster Management, Construction, Mobile Offices, Emergency Services, Cellular Backhaul and many others.



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Specifications are subject to change

Ma<u>y 2016</u>

FMA-120Ka

TECHNICAL SPECIFICATIONS

Mechanical

Antenna Size Reflector Material Platform Type Antenna optics Mast Size Elevation Range Azimuth Range Polarization 1.2m (48") Glass reinforced polyester SMC Two axis Motorized, Galvanized steel Prime Focus, offset feed 2.5 SCH 80 pipe (3.00" OD) 0° to 90° 340° Circular, Auto-switching

Environmental

Wind Loading Operational Survival Temperature Operational Survival

72 km/h (45mph) 200 km/h (125mph)

-30°C to 55°C (-22°F to 130°F) -40°C to 65°C (-40°F to 150°F)

Electrical

Elevation Motor Azimuth Motor Rx & Tx Cables Control Cables Standard Optional 24VDC 24VDC 2 RG6 Cables -15m (50 ft) each

15m (50 ft) Ext. Cable Up to 60m (200 ft) available

Ka-Band Receive Transmit 19.70 - 20.20 29.50 - 30.00 Frequency (GHz) Midband Gain (±.2dB) 46.5 49.9 EIRP (Nominal) 54 dBWi @ 29.75 GHz G/T (Nominal) 23 dB/K @ 19.95 GHz Antenna Noise Temp. (K) 20° EL= 107 / 40° EL= 89 Sidelobe Envelope Co-Pol (dBi) 1.5° <Θ <20° 29-25 LogΘ 20° <Θ < 26.3° -3.5 26.3° <Θ < 48° 32-25 LogΘ 48° <Θ <180° -10 Typical **Cross Polarization** -25 dB in 1dB contour Any angle of axis -25 dB (Max.) Feed Interface Type F Type F VSWR 1.3:1 (Max.)

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Shipping Weights & Dimensions

1 Skid: 132 cm x 117 cm x 155 cm (52" x 46.1" x 61") 170 kg (374.8 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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Specifications are subject to change

TECHNICAL SPECIFICATIONS



CONTROLLERS & ACCESSORIES







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Specifications are subject to change



7000/7024 Controller

TECHNICAL SPECIFICATIONS



Online with the touch of a button

- Simple stand-alone one touch operation to find satellite and stow antenna
- Typical satellite acquisition time in less than 2 minutes
- Ideal for applications that require a quick, simple setup and reliable connection
- Internal DVB receiver provides modem independence
- Based on an embedded software solution

Features

- One touch stand-alone solution
- Front Panel Configurable
- Compatible with all iNetVu® mobile platforms
- Supports DVB-S and DVB-S2/ACM frequencies
- Optimal, high-precision antenna pointing
- Remote access and operation via Network, Web and other Interfaces
- Built-in motion and movement protection for safety
- Supports inclined orbit satellites
- Integrated with multiple modems
- Works with GPS and GLONASS Satellite Navigation Systems
- Global Position Information available for external devices
- · Easy to configure and operate
- Interoperable with Uplogix's remote management appliances
- Supported languages by GUI interface: English, Russian, Swedish, Chinese (Mandarin, Traditional) and Spanish
- Standard 2 year warranty

Modem Compatibility*

The DVB-S2/ACM Tuner is an integrated part of all iNetVu® 7000/7024 Controllers. It allows the iNetVu® system the option to find the satellite with and without the use of a satellite modem. Compact and adaptable, this high performance tuner is programmable to any DVB-S or DVB-S2/ACM frequency and allows the user to pre-configure specific satellite options.

iNFINITI 3000/5000/7000 Series

HughesNet DW 6000/7000 HN 7000/7000S HN 9200/9260 HN 9400/9460 HN 9600/9800 HX 50/90/100/200/250/260 ipstar IPX-5100/9200

IPX-3200

Skyedge II/IP

Gilat

Comtech/Radvne CDM-600L/570L/625/840 DMD 20/DMD 20 LBST SkyWire MDX420 Romantis/Eastar UHP-1000 STM SatLink 1000/1910/2000/2900 Newtec MDM-3100 (standalone)

iDirect

Evolution X5/X7

Viasat Linkstar II/IV/S2/S2A Surfbeam II/PRO Surfbeam II Auto-acquire EM4100 Tooway/PRO Paradise Evolution/ Quantum Series Tachyon CI-1300 Ruggedized RMG Advantech S5100 S5420

* Please contact C-COM if you require more information about modem compatibility as these may change without further notice

Certification

Skyedge II/Pro/Access

Skyedge IIc (Standalone)

FCC Part 15 Class B, CE & VCCI Approvals for Emission & Immunity Standards

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Optional Beacon Receiver

An optional 19" rack mount iNetVu[®] Beacon Receiver (BR300L) is available and has been integrated to work with the iNetVu® Controllers. This external self contained compact unit detects the power density of the satellite beacon (930MHz - 2300MHz) and is connected to the controller via an RS232 serial port interface.

Optional GPS/GLONASS Compass

An optional GPS/Glonass based compass is available and has been integrated with the iNetVu Controllers. This external compact device can be fitted on roof of vehicle beside the iNetVu platform to provide accurate vehicle heading within 1 degree irrespective of the surrounding magnetic field. The precise heading of the antenna translates to a smaller search window and hence faster satellite acquisitions. Interfaces to the controller via RS-232 serial port.

Interfaces

GPS Antenna
RF Rx In / Rx Out
Sensor Input
Motor Control
Network Interface
USB 2.0 (Full Speed)
Serial Port

SMA Connector Type F Connector DB26 Connector 9-Pin Circular AMP Connector **RJ45** Connector USB Type B Receptacle **DB9** Female Connector

Electrical

Model **Universal AC Input** DC Input **Elevation Power Azimuth Power Polarization Power** Idle Power Consumption 12VDC @ 1A LNB Power

100- 240VAC, 2.2 - 1.1A 100- 240VAC, 2.2 - 1.1A 50/60 Hz 50/60 Hz 12VDC @ 15A (Max.) 24VDC @ 8A (Max.) 12VDC @ 15A (Max.) 24VDC @ 8A (Max.) 12VDC @ 10A (Max.) 24VDC @ 6A (Max.) 12VDC @ 3A (Max.) 24VDC @ 2A (Max.) 24VDC @ 0.5A

-20°C to +50°C (-4°F - 122°F)

Disable, 13V, 14V, 18V, 19V, 20V, 21V @ 500 mA (Max.)

7024C

Physical

Dimensions Standard Weight

19"1U Rack Mountable Unit H: 4.5cm (1.75") W: 43cm (17.1") D: 28cm (11.0") 4.5kg (9.9 lbs)

Environmental

Operating Temperature Storage Temperature

-40°C to +60°C (-40°F - 140°F)

7000C

Shipping dimensions

Shipping box: 54 cm × 44 cm × 20 cm (21" × 17" × 8"); 7kg (15 lbs) Optional - See Transportable Cases datasheet



Specifications are subject to change

7000/7024 Controller



TECHNICAL SPECIFICATIONS

SEVEN methods of finding satellite with the iNetVu® 7000/7024 controller

- DVB Search Searches directly for any DVB-S or DVB-S2 (ACM) carrier on the target satellite and peaks on it.
- DVB Search, Opposite Polarity Searches for DVB-S or DVB-S2 carrier in the opposite polarity on target satellite, then rotates polarization axes and enables transmitter if modem signal attained.
- DVB Search, Reference Satellite Searches for a DVB-S or DVB-S2 carrier on ANY configured reference satellite then moves to the target satellite and peaks on modem signal.
- RF Automatic Search The system will stop and search for modem signal when it senses an increase in RF energy received through the DVB tuner as it passes by the target satellite. If the modem signal is found, the system will begin the peak process.
- RF Override Search The user specifies an RF Threshold such that the system stops when it reaches an area above the threshold and looks for modem signal to peak on.
- Beacon Receiver The Controller works seamlessly with the optional iNetVu[®] Beacon Receiver by searching for a specified beacon frequency and then peaks on it (search gain level can be adjusted).
- Auto-Deploy Method Peaks on a reference satellite then uses precise pointing mechanism to locate the target satellite, even when no modem RF or beacon signal is available to peak on.

The iNetVu® 7000/7024 Controller

- Can be operated from a PC application using the USB port Via its web interface, it can be operated remotely or locally
 over a network connection
- · Can be completely configured from the front panel with a password protected configuration menu
- Protects the platform and its components from damage, using current levels and sensor readings. It includes motion
 and movement protection as well
- Provides automatic re-peaking if signal degradation occurs
- Works correctly even when deployed while on an incline (in any direction) of up to 15°
- Can search for both DVB-S and DVB-S2/ACM carriers
- Supports full automatic and manual control of the iNetVu® Platform
- · Allows the users to select from multiple speed levels for both azimuth and elevation
- · Allows the system to operate unattended in remote locations
- Is able to upload the recorded log information (Maximum of 12 hours) from the controller to the PC for troubleshooting
- Supports full tracking of Inclined Orbit satellites by both signal strength and timed function
- Is capable of powering the LNB with 13-21 Volts, selectable in software
- Provides the option of saving the settings to a configuration file that can be used to configure additional controllers with the same configuration parameters
- · Works seamlessly with Uplogix Remote Management Appliances
- Supports both GPS and GLONASS Satellite Navigation Systems
- Supports Electronic Flux Gate Compass for increased speed of acquisition
- Designed and manufactured to the highest standards of quality and reliability by C-COM
- Supports all iNetVu® Mobile antenna platforms



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Specifications are subject to change

7710 Controller

TECHNICAL SPECIFICATIONS



Online with the touch of a button

- Simple stand-alone one touch operation to find satellite & stow antenna
- Typical satellite acquisition time in less than 2 minutes
- Ideal for applications that require a quick, simple setup and reliable connection
- Internal DVB receiver provides modem independence
- Based on an embedded software solution

Features

- Simultaneous multi-axis movements
- · Easy to configure and operate; one touch stand-alone solution
- Single control cable connection to iNetVu[®] platform
- Front Panel Configurable
- Only works with iNetVu® mobile platforms which are equipped with 7720 on-board module
- Supports DVB-S and DVB-S2/ACM frequencies
- ٠ Optimal, high-precision antenna pointing
- Remote access and operation via Network, Web and other Interfaces ٠
- Supports inclined orbit satellites
- Integrated with multiple modems
- · Works with GPS and GLONASS Satellite Navigation Systems
- Global Position Information available for external devices
- Interoperable with Uplogix's remote management appliances
- Supported languages by GUI interface: English, Russian, Swedish Chinese (Mandarin, Traditional) and Spanish
- Standard 2 year warranty

Modem Compatibility*

The DVB-S2/ACM Tuner is an integrated part of all iNetVu® 7710 Controllers. It allows the iNetVu® system the option to find the satellite with and without the use of a satellite modem. Compact and adaptable, this high performance tuner is programmable to any DVB-S or DVB-S2/ACM frequency and allows the user to pre-configure specific satellite options.

HughesNet
HN 7000/7000S
HN 9200/9260
HN 9400/9460
HN 9600/9800
HX 50/90/100/200/250/260
HT 1100/1200/1300

Tooway/PRO Gilat Skyedge II/IP Skyedge II/Pro/Access

Skyedge IIc (Standalone)

Surfbeam II/PRO

Viasat

lpstar*

IPX-3200

Comtech/ Radyne* CDM-600L/570L/625/840 DMD 20/DMD 20 I BST SkvWire MDX420

STM* IPX-5100/9200 SatLink 1000/1910/2000/2900

iDirect

Newter

UHP-1000

Evolution X5/X7

MDM-3100 (standalone)

Romantis/Eastar*

* Modem Integration underway. Please contact C-COM if you need more information about modem compatibility as these may change without further notice.



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Optional Beacon Receiver

An optional 19" rack mount iNetVu[®] Beacon Receiver (BR300L) is available and has been integrated to work with the iNetVu® Controllers. This external self contained compact unit detects the power density of the satellite beacon (930MHz - 2300MHz) and is connected to the controller via an RS232 serial port interface.

Optional GPS/GLONASS Compass

An optional GPS/Glonass based compass is available and has been integrated with the iNetVu Controllers. This external compact device can be fitted on roof of vehicle beside the iNetVu platform to provide accurate vehicle heading within 1 degree irrespective of the surrounding magnetic field. The precise heading of the antenna translates to a smaller search window and hence faster satellite acquisitions. Interfaces to the controller via RS-232 serial port.

Interfaces

RF Rx In
RF Rx Out
7720 Port
Network Interface
USB 2.0 (Full Speed)
Serial Port
DC In
GPS
Electrical

Type F Connector Type F Connector Circular Metal Connector **RJ45** Connector USB Type B Receptacle DB9 Female Connector Circular Amp Connector **SMA** Connector

- LNB Power Universal AC Input DC Input Idle Power Consumption 24VDC @ 1A
- Physical Dimensions Standard

Weight

19"1U Rack Mountable Unit H: 4.5cm (1.75") W: 43cm (17.1") D: 28cm (11.0") 4.5kg (9.9 lbs.)

Disable, 13V, 14V, 18V, 19V, 20V, 21V @ 500 mA (Max.)

100 - 240VAC, 4.0 - 2.0A, 50/60 Hz

24VDC @ 15A (Max.)

-20°C to +50°C (-4°F - 122°F)

-40°C to +60°C (-40°F - 140°F)

Environmental

Operating Temperature Storage Temperature

Certification

FCC Part 15 Class B, CE for Emission & Immunity Standards

Shipping dimensions

Shipping box: 54 cm \times 44 cm \times 20 cm (21" \times 17" \times 8"); 7kg (15 lbs) Optional Cases - See Transportable Cases datasheet



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7710 Controller

TECHNICAL SPECIFICATIONS

SEVEN methods of finding satellite with the iNetVu[®] 7710 Controller

- DVB Search Searches directly for any DVB-S or DVB-S2 (ACM) carrier on the target satellite and peaks on it.
- DVB Search, Opposite Polarity Searches for DVB-S or DVB-S2 carrier in the opposite polarity on target satellite, then rotates
 polarization axes and enables transmitter if modem signal attained.
- DVB Search, Reference Satellite with modem Searches for a DVB-S or DVB-S2 carrier on ANY configured reference satellite then moves to the target satellite and peaks on modem signal.
- DVB Search, Reference Satellite without modem Peaks on a reference satellite then uses precise pointing mechanism to locate the target satellite, even when no modem RF or beacon signal is available to peak on.
- RF Automatic Search The system will stop and search for modem signal when it senses an increase in RF energy received through the DVB tuner as it passes by the target satellite. If the modem signal is found, the system will begin the peak process.
- RF Override Search The user specifies an RF Threshold such that the system stops when it reaches an area above the threshold and looks for modem signal to peak on.
- Beacon Receiver The iNetVu[®] Controller works seamlessly with the optional iNetVu[®] Beacon Receiver by searching for a specified beacon frequency and then peaks on it (search gain level can be adjusted).

The iNetVu® 7710 Controller

- · Can be operated from a PC application using the USB port or network port
- · Has built in web interface that can be operated remotely or locally over a network connection
- · Can be completely configured from the front panel with a password protected configuration menu
- Protects the platform and its components from damage, using current levels and sensor readings. It includes motion and movement protection as well
- Provides automatic re-peaking if signal degradation occurs
- Works correctly even when deployed while on an incline (in any direction) of up to 15°
- Can search for both DVB-S and DVB-S2/ACM carriers
- · Supports full automatic and manual control of the iNetVu® Platform
- · Allows the users to select from multiple speed levels for both azimuth and elevation movements
- Allows the system to operate unattended in remote locations
- It is able to upload the recorded log information (Maximum of 12 hours) from the controller to the PC for troubleshooting
- · Supports full tracking of Inclined Orbit satellites by both signal strength and timed function
- Is capable of powering the LNB with 13-21 Volts, selectable in software
- Provides the option of saving the settings to a configuration file that can be used to configure additional controllers with the same configuration parameters
- Works seamlessly with Uplogix Remote Management Appliances
- · Supports both GPS and GLONASS Satellite Navigation Systems
- Supports Electronic Flux Gate Compass for increased speed of acquisition
- Designed and manufactured to the highest standards of quality and reliability by C-COM
- Only works with iNetVu® Mobile antenna platforms which are equipped with 7720 on board module



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Specifications are subject to change

7711 Controller

TECHNICAL SPECIFICATIONS



Online with the touch of a button

- Weatherproof antenna controller for outdoor use
- Rugged and reliable in extreme environments
- Simple stand-alone one touch operation to find satellite & stow antenna
- Typical satellite acquisition time in less than 2 minutes
- Ideal for applications that require a quick, simple setup and reliable connection, suitable for vehicle-independent usage
- Internal DVB receiver provides modem independence
- Based on 7710 Controller and embedded software solution

Features

- Simultaneous multi-axis movements
- Easy to configure and operate; one touch stand-alone solution
- Single control cable connection to iNetVu[®] platform
- Only works with iNetVu $^{\circ}$ mobile platforms which are equipped with 7720 on-board module
- Interchangeable with the 7710 Controller using same cables
- Supports DVB-S and DVB-S2/ACM frequencies
- Optimal, high-precision antenna pointing •
- Remote access and operation via Network, Web and other Interfaces
- Supports inclined orbit satellites
- Integrated with multiple modems
- · Works with GPS and GLONASS Satellite Navigation Systems
- Global Position Information available for external devices
- Interoperable with Uplogix's remote management appliances
- Supported languages by GUI interface: English, Russian, Swedish Chinese (Mandarin, Traditional) and Spanish
- Standard 2 year warranty

Modem Compatibility*

The DVB-S2/ACM Tuner is an integrated part of the iNetVu® 7711 Controller. It allows the iNetVu® system the option to find the satellite with and without the use of a satellite modem. Compact and adaptable, this high performance tuner is programmable to any DVB-S or DVB-S2/ACM frequency and allows the user to pre-configure specific satellite options.

HughesNet	Viasat	iDirect
HN 7000/7000S	Surfbeam II/PRO	Evolution X5/X7
HN 9200/9260	Tooway/PRO	
HN 9400/9460		Newtec
HN 9600/9800	Gilat	MDM-3100 (standalone)
HX 50/90/100/200/250/260	Skyedge II/IP	
HT 1100/1200/1300	Skyedge II/Pro/Access	Romantis/Eastar*
	Skyedge llc (Standalone)	UHP-1000
Comtech/ Radyne*		
CDM-600L/570L/625/840	lpstar*	STM*

C DMD 20/DMD 20 LBST SkyWire MDX420

IPX-5100/9200 IPX-3200

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SatLink 1000/1910/2000/2900 * Modem Integration underway. Please contact C-COM if you need more information about modem compatibility as these may change without further notice.

Optional Beacon Receiver⁽¹⁾

An optional 19" rack mount iNetVu® Beacon Receiver (BR300L) is available and has been integrated to work with the iNetVu® Controllers. This external self contained compact unit detects the power density of the satellite beacon (930MHz - 2300MHz) and is connected to the controller via an RS232 serial port interface.

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Optional GPS/GLONASS Compass

An optional GPS/Glonass based compass is available and has been integrated with the iNetVu Controllers. This external compact device can be fitted on roof of vehicle beside the iNetVu platform to provide accurate vehicle heading within 1 degree irrespective of the surrounding magnetic field. The precise heading of the antenna translates to a smaller search window and hence faster satellite acquisitions. Interfaces to the controller via RS-232 serial port.

Interfaces

RF Rx In **RF Rx Out** 7720 M&C Port Network Interface Serial Port DC In

Type F Connector Type F Connector Circular Metal Connector - Mil Spec **RJ45** Connector DB9 Female Connector Circular Amp Connector

Electrical

LNB Power Universal AC Input⁽²⁾ DC Input Idle Power Consumption 24VDC @ 1A

100 - 240VAC, 4.0 - 2.0A, 50/60 Hz 24VDC @ 15A (Max.)

Disable, 13V, 14V, 18V, 19V, 20V, 21V @ 500 mA (Max.)

Physical

Dimensions Standard Weight

Standalone or 1U Rack Mountable Unit H: 4.5cm (1.75") W: 43cm (17.1") D: 28cm (11.0") 4.5kg (9.9 lbs.)

Environmental

Operating Temperature Storage Temperature **IP** Protection

-20°C to +50°C (-4°F - 122°F) -40°C to +60°C (-40°F - 140°F) IP67

Certification

FCC Part 15 Class B, CE for Emission & Immunity Standards

Shipping dimensions

Shipping box: 54 cm \times 44 cm \times 20 cm (21" \times 17" \times 8"); 7kg (15 lbs) Optional Cases - See Transportable Cases datasheet

Note:

⁽¹⁾Not weatherproof - Indoor use

⁽²⁾ External 320W Power Supply AC/DC



Specifications are subject to change

May 2016

(Draft)



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one)

7711 Controller

TECHNICAL SPECIFICATIONS





SEVEN methods of finding satellite with the iNetVu® 7711 Controller

- DVB Search Searches directly for any DVB-S or DVB-S2 (ACM) carrier on the target satellite and peaks on it.
- DVB Search, Opposite Polarity Searches for DVB-S or DVB-S2 carrier in the opposite polarity on target satellite, then rotates
 polarization axes and enables transmitter if modem signal attained.
- DVB Search, Reference Satellite with modem Searches for a DVB-S or DVB-S2 carrier on ANY configured reference satellite then moves to the target satellite and peaks on modem signal.
- DVB Search, Reference Satellite without modem Peaks on a reference satellite then uses precise pointing mechanism to locate the target satellite, even when no modem RF or beacon signal is available to peak on.
- RF Automatic Search The system will stop and search for modem signal when it senses an increase in RF energy received through the DVB tuner as it passes by the target satellite. If the modem signal is found, the system will begin the peak process.
- RF Override Search The user specifies an RF Threshold such that the system stops when it reaches an area above the threshold and looks for modem signal to peak on.
- Beacon Receiver The iNetVu[®] Controller works seamlessly with the optional iNetVu[®] Beacon Receiver by searching for a specified beacon frequency and then peaks on it (search gain level can be adjusted).

The iNetVu® 7711 Controller

- Can be operated from a PC application via network port
- · Has built in web interface that can be operated remotely or locally over a network connection
- Protects the platform and its components from damage, using current levels and sensor readings. It includes motion and movement protection as well
- Provides automatic re-peaking if signal degradation occurs
- Works correctly even when deployed while on an incline (in any direction) of up to 15°
- Can search for both DVB-S and DVB-S2/ACM carriers
- · Supports full automatic and manual control of the iNetVu® Platform
- · Allows the users to select from multiple speed levels for both azimuth and elevation movements
- · Allows the system to operate unattended in remote locations
- It is able to upload the recorded log information (Maximum of 12 hours) from the controller to the PC for troubleshooting
- Supports full tracking of Inclined Orbit satellites by both signal strength and timed function
- Is capable of powering the LNB with 13-21 Volts, selectable in software
- Provides the option of saving the settings to a configuration file that can be used to configure additional controllers with the same configuration parameters
- Works seamlessly with Uplogix Remote Management Appliances
- Supports both GPS and GLONASS Satellite Navigation Systems
- Supports Electronic Flux Gate Compass for increased speed of acquisition
- Designed and manufactured to the highest standards of quality and reliability by C-COM
- Only works with iNetVu[®] Mobile antenna platforms which are equipped with 7720 on board module



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Specifications are subject to change (Draft)



3000 Controller

TECHNICAL SPECIFICATIONS

by C-COM Satellite Systems Inc.







The new iNetVu[®] 3000C hand-held manual controller has the same look and feel as a video game controller. It allows you to operate the platform without having the auto-pointing controller or PC attached to it. In addition, this controller makes it possible to operate the iNetVu[®] mobile antenna at variable speeds.

A useful tool for conducting demonstrations, installations, testing or for emergency backup situations.

Features

- Jog control on 3 axis
- Compatible with all iNetVu® Mobile Platforms
- Ability to raise, stow, and move the iNetVu® Mobile Platform during demos, installations, trouble-shooting etc.
- Compact, ergonomic case design
- LCD display for operation and limits status
- 10-speed operation
- Directly attachable to any 12VDC / 24VDC power supply
- Enhanced operation with feedback control

Note: ⁽¹⁾ Required for new iNetVu® 24V based models

Standard 2 year warranty

Electrical

Power Input 3000C-12 3000C-24 ⁽¹⁾ 3000C-24-CAN ⁽²⁾ Motor ⁽³⁾ Sensor ⁽³⁾

12VDC @ 15 Amp (Max.) 24VDC @ 8 Amp (Max.) 24VDC @ 8 Amp (Max.) 9 pin; 4.5m (15 ft) cable (optional) DB-26; 4.5m (15 ft) sensor cable (optional)

Environmental

Operating temperature Storage temperature Standard

mperature -20° to +60° C (-4° to +140° F) perature -40° to +70° C (-40° to +158° F) RoHS compliant

Mechanical

Dimensions Weight W: 8 cm (7") H: 13 cm (5") D: 5 cm (2") 500 gm (1 lbs)

Shipping Dimensions

56 cm x 51 cm x 13 cm (22" x 20" x 5"), 3.7 kg (8 lbs)



Specifications are subject to change

May 2016

⁽³⁾ Cables length up to 50ft available

Works with combined PWR/CAN external cable

⁽²⁾ Required for new iNetVu[®] 24V based models equipped with 7720

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Beacon Receiver

TECHNICAL SPECIFICATIONS

The iNetVu® BR300L 19" rack mount Beacon Receiver is a high performance unit designed to track the power density of a satellite beacon in real time. It supplies a DC voltage output that is linearly proportional to the beacon power by utilizing a true, RMS - responding power detector.

The BR300L has been specifically designed to work seamlessly with all iNetVu® controllers and antenna platforms.



System

Input Frequency Pre-detection Bandwidth Input Level Frequency Tuning **Frequency Adjust** AFC Threshold Input Impedance Input Connector **Output Impedance Output Connector** Tracking Gradient **Tracking Response** System Level Range System Level Adjust Frequency Stability **Frequency Reference** Phase Noise Alarms Alarm Relay External LNB Power Front Panel Display M&C M & C Connector

930 MHz - 2300 MHz 50 kHz - 90 dBm (Min.), -30 dBm (Max.) 10 kHz steps Front panel or remotely ± 23 kHz 45 dB-Hz, for acquisition 75 Ohm (Optional 50 Ohm)⁽¹⁾ Type F, Female 100 Ohm, Single ended Terminal Plug & BNC Female 0.5 V/dB 0 to +10 VDC 60 dB 0 to 60 dB, 0.5 dB Steps <1 ppm, 0° to +50° C (32° to 122° F) 10 MHz (Internal) >75 dB-Hz, 1 kHz from Carrier Unit Lock Form-C +18VDC, Switched, In/Out, 500ma, (Max.) Vacuum Fluorescent RS-232 or RS-422/485 switched on rear panel DB-9, Female

Environmental

Operating Temperature Storage Temperature Humidity

0° to +50° C (32° to 122° F) -40° to +70° C (-40° to +158° F) 95% RH @ 40° C

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Weight **Primary Power**

Physical

Size

4.5 cm (1.75") H; 41 cm (16") D 48 cm (19") W 3.63 kg (8lbs) 90-264 VAC 47 - 63Hz, 1.4A Autosensing

Certification

Complies with FCC Part 15 Class B CE & VCCI Approvals for Emission & Immunity Standards

Shipping dimensions

Receiver box: 56 cm x 51 cm x 13 cm (22" x 20" x 5"), 3.7 kg (8 lbs)

Note: ⁽¹⁾ For 50 Ohm/N-Type please order BR300L-N (SMA Type is also available)



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Specifications are subject to change

PowerSmart

TECHNICAL SPECIFICATIONS

The PowerSmart 2480 has been designed to provide 24 / 48 VDC or 110 / 220 VAC power to external amplifiers / BUCs, and includes features to support Monitor and Control (M&C) functions for several products. Most DC / AC powered BUCs, SSPAs and TWTAs can be integrated with the PowerSmart 2480, for an efficient and convenient hardware solution to provide POWER plus M&C control to an outdoor transmitter unit.





Features

- 19 inch 1U rack mount unit
- Amplifier functions such as TX Enable / Disable and operational status can be monitored and controlled from a convenient operator control panel. (1)

iNetVu

by C-COM Satellite Systems Inc.

- The amplifier manufacturer's software can typically be operated from a PC platform through the configurable port, over RS232, RS485 or SNMP interface as required.
- Enabling the Transmit function, monitoring BUC faults and the presence of 10 MHz reference on the IFL, verifying output power level and other common functions along with the rack mount format make the PowerSmart 2480 a value-added solution to higher-powered VSAT applications.
- Configuration parameters, onboard statistics and fault information can be accessed via the amplifier's control interface (if available) through a convenient data port on the panel.
- Optional support for Bias-T, DC Blocker, MUX-T with 10 MHz clock, all in one convenient rack mount enclosure.
- Standard 2-Year Warranty

Note:

(1) Listed features are BUC dependent. Some front panel features related to M&C control may not be supported by some BUC manufacturers. Please inquire for further clarifications.

Application Versatility

The iNetVu[®] PowerSmart 2480 is ideal for applications where a VSAT transmitter / amplifier requires more power than a satellite modem can provide over the TX output. This is typical for larger Block Up Converters (BUC) or Power Amplifiers (SSPA, TWTA etc.) that supply over 8 Watts RF output power.



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Specifications are subject to change

May <u>2016</u>

PowerSmart

TECHNICAL SPECIFICATIONS

Environmental

Operational Temperature Storage Temperature Humidity -20° C to +60° C (-4° F to 140° F) -40° C to +85° C (-40° F to 185° F) 10 - 95% RH

Physical

Dimensions

Weight

D: 36.2 cm (14") H: 4.5 cm (2") 6.3 kg (14 lbs)

W: 48.3 cm (19")

Bias-T Thruplexer (Optional)

C-COM standard C-COM Mux-T L-Band and 10 MHz pass (not generated) Provides 10 MHz Reference Generation Capability L-Band pass clock, plus DC / DC Block

Output

Model	PS-2480A	PS-2480B	PS-2480C
Voltage	48VDC	24VDC	110/220VAC
Rated Current	10 Amp	20 Amp	6.5A / 115VAC
			3.5A / 230VAC
Rated Power	480 W	480 W	

Input

Voltage Range Frequency Range AC Current 85 - 264VAC 47 - 63 Hz 6.5A / 115VAC 3.5A / 230VAC

Front Panel Switches

Power BUC Control⁽¹⁾ ON / OFF Enable / Disable transmitter

ciNetVu[®]

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Compatibility

Supports most AC / DC Powered BUC in the market

PC Interface

DB9 on front panel used to access BUC Software via PC

PC Interface

RS-232	BUC / AMP dependent - PS-2480 Adaptable / configurable
RS-485	BUC / AMP dependent - PS-2480 Adaptable / configurable
SNMP	BUC / AMP dependent - PS-2480 Adaptable / configurable

* RS-232 / RS-485 interfaces are physically interchangeable and don't require seperate power source

Certifications

FCC, CE, QPS

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Transportable Cases

TECHNICAL SPECIFICATIONS

iNetVu® 7000 Controller Rackmount Case





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Controller Transportable Cases

Model Type iNetVu® 7000/7024 Controller 6U 19" Rack Case ⁽¹⁾ 8U: Optional

iNetVu® 7710 Controller (3U)

10U:

12U:

(Comes with detachable end covers) 74 x 51 x 72 cm (29" x 20" x 28") 77 x 59 x 74 cm (30" x 23" x 29") 74 x 66 x 72 cm (29" x 26" x 28") 77 x 77 x 72 cm (30" x 30" x 28") 44.5 x 80 x 38 cm (17.5" x 31.5" x 15")

 $(W \times H \times L)$

 Weight
 Total Weight

 [cases only]
 [Case + Controller]

 26 kg (57 lbs)
 30 kg (66 lbs)

 26.8 kg (59 lbs)
 32 kg (70 lbs)

 31.8 kg (70 lbs)
 37 kg (81 lbs)

 34 kg (75 lbs)
 40 kg (86 lbs)

 13 kg (28.6 lbs)
 17.5 kg (38.5 lbs)

New Generation Transportable Cases

External Dimensions (All Heights Include Wheels)						
Model Type	(W x H x L)	Weight [cases only]	Total Weight [Case + Platform]			
iNetVu® Ka-75V	155 x 84 x 34 cm (61″ x33″x13.5″)	54.5 kg (120 lbs)	107 kg (235 lbs)			
iNetVu® Ka-98 V/G/H	183 x 109 x 47 cm (72″ x 43″ x 18.5″)	79.5 kg (175 lbs)	133.5 kg (294 lbs)			



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The iNetVu[®] product line offers a wide range of cables to address the needs of its resellers. The iNetVu[®] standard configuration includes four types of cables:

External Motor Cable - 8 conductor cable

- 14 AWG / 16 AWG / 18 AWG
- Metalized AMP 9 Pin to AMP 9 Pin connectors
- 10m (33 feet)
- Weight: 1.1 kg (2.5 lbs)

External Sensor Cable - 25 conductor cable

- 24 AWG
- Metalized AMP 16 Pin to DB26 connector
- 10m (33 feet)
- Weight: 1.1 kg (2.5 lbs)

External Transmit Cable (TX) - RG6 Co-axial cable

- F-Type connectors
- 75 ohm
- 10m (33 feet)
- Weight: 0.5 kg (1 lbs)

RX Cable Splitter - 2 to 1 Splitter

- F-Type connectors
- 75 ohm
- 10 m (33 feet)
- Weight: 0.5 kg (1 lbs)

Modem Cable - RG6 Co-axial cable

F-Type connectors 75 ohm 1 m (3 feet)

Controller Cable - RG6 Co-axial cable F-Type connectors 75 ohm 1 m (3 feet)

Note: The external cables are also offered in sets of 15m (50 feet), 30m (100 feet), 45m (150 feet) and 60m (200 feet). You can also order the TX cable in 50 ohm with a N-Type connector and the RX cable with a 50 ohm and a N-Type connector.



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TECHNICAL SPECIFICATIONS

Vertical Markets

VERTICAL MARKETS



- Oil & Gas Exploration
- SNG (Satellite News Gathering)
- Military
- Cellular Backhaul
- Homeland Security
- Mobile Medical Services (Telemedicine)
- Emergency Response
- Disaster Relief
- Mining
- Construction
- Mobile Education (Bookmobiles)
- Mobile Offices
- Mobile Banking
- Recreation Vehicles









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TECHNICAL SPECIFICATIONS

Ka-75V

Ка

1260

G

Ка

1510

Models ⇒

Features $mathcal{P}$

Band

Deployed Height

(mm) Stowed Height

by C-COM Satellite Systems Inc. Ka Drive-Away Antennas **Ka Fly-Away Antennas** Ka-98 FLY-98 FMA-120 FLY-75V V V | H Η G I Ka Ка Ka Ka Ка Ка Ка Ka 1510 1510 1325 1660 1580 1580 N/A 300 300 290 N/A N/A N/A N/A

ciNetVu[®]

Stowed Height (mm)	300	300	300	300	290	N/A	N/A	N/A	N/A
Total Weight (kg)	52	54	54	54	64	64	64	64	N/A
Max. RF (BUC/LNB) Components weight (lbs)	11	11	11	11	11	11	11	11	11
Max. RF, BUC Dims (LxWxH/inches)	3W Custom	3W Custom	4W Custom	1-2W Custom	3W	3W Custom	3W Custom	2W Custom	4W Custom
Reflector	ViaSat 75 Ka	Skyware 98 Ka	Skyware 98 Ka	Skyware 98 Ka	Skyware 75 Ka	Skyware Global 98	Skyware Global 98	Skyware Global 98	Glass reinforced polyester SMC
Elevation (degrees)	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90				
Polarization (+- degrees)	N/A	Auto or 45 (LHCP/RHCP)	Auto or 45 (LHCP/RHCP)	Auto or 45 (LHCP/RHCP)	Circular Auto-switching	Circular ±45	Circular Auto-switching	Circular ±45 Manual	Circular, Auto-switching
Frequency Rx (GHz)	18.30 - 20.20	19.20 - 20.20	18.30 - 20.20	19.20 - 20.20	18.30 - 20.20	19.20 - 20.20	18.30 - 20.20	19.20 - 20.20	19.70 - 20.20
Frequency Tx (GHz)	28.10 - 30.0	29.50 - 30.00	28.10 - 30.00	29.50 - 30.00	28.10 - 30.0	29.50 - 30.00	28.10 - 30.00	29.50 - 30.00	29.50 - 30.00
Midband Gain (Rx, Tx)	41.40, 44.50	43.50, 46.60	43.50, 46.60	43.50, 46.60	41.40, 44.50	43.50, 46.60	43.50, 46.60	43.50, 46.60	46.50, 49.90
Wind Deployed (km/h)	160	160	160	160	100 w/ballast	100 w/ballast	100 w/ballast	100 w/ballast	200
Wind Stowed (km/h)	225	225	225	225	N/A	N/A	N/A	N/A	N/A
Survival Temp. (°C)	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65				
Operational, Wind (km/h)	72	72	72	72	50 no ballast 72 w/ ballast	72			
Operational, Temp. (°C)	-30 to 55	-30 to 55	-30 to 55	-30 to 55	-30 to 60				
Controller	7024C	7024C	7024C	7024C	7710	7710	7710	7710	7024C
Standard Cables (75 Ohm) (50 Ohm -Opt.)	CB-7024-10 10m (33 ft)	CB-7024-10 10m (33 ft)	CB-7024-10 10m (33 ft)	CB-7024-10 10m (33 ft)	7.5m (25 ft)	10m (33 ft)	10m (33 ft)	10m (33 ft)	CB-FMA-1200-50-F 15m (50 ft)
Optional Cable Lengths (up to)	10-60m (33 - 200 ft)	N/A	10-60m (33 - 200 ft)						
Warranty	2 years	2 years	2 years	2 years	1 year				
		-							



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WHEN "GOOD ENOUGH" ISN'T GOOD ENOUGH BUY THE BEST



The iNetVu®FLY-75V Easy to assemble - Reliable - Cost-Effective

World's Premier Auto-Acquire Antennas



Push1 Button & Connect to Satellite in 2 Minutes



iNetVu

For Mission Critical Requirements in Emergency Response, Disaster Recovery, Oil & Gas, Telemedicine, SNG, and all other remote broadband applications

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