



# INTELLISYSTEM TECHNOLOGIES *iNetVu*<sup>®</sup> Spec Sheets



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**Intellisystem**  
TECHNOLOGIES

TECHNICAL SPECIFICATIONS



# NEW GEN DRIVEAWAY ANTENNAS



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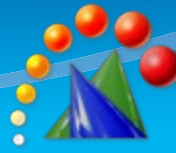
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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016

# NewGen Drive-Aways



**INTELLISYSTEM**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

**Ka-75V**



**981**



**Ka-98G**



**Ka-98V**



**Ka-98H**



**Ka-98H/Jup**



**1201**



**1202**



**Ka-1202V**



**Ka-1202G**



**1501**



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# Ka-75V



## 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 NEWSPOTTER NEWSGATHERING service by Eutelsat"**



### Features

- One-Piece, high surface accuracy, offset feed, steel reflector
- 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](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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# Ka-75V

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## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	75cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1^\circ$
Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 90°
Polarization	Circular, Auto-switching
Elevation Deploy Speed	Variable, 10°/sec typ.
Azimuth Deploy Speed	Variable 5°/sec typ.
Peaking Speed	0.1°/sec

### Environmental

Survival	
Wind Deployed	160 km/h (100 mph)
Wind Stowed	225 km/h (140 mph)
Temperature	-40°C to 65°C (-40°F to 150°F)
Operational	
Wind	72 km/h (45 mph)
Temperature	-30°C to 55°C (-22°F to 130°F)

Thermal Test per MIL-STD-810F, Method 501.4/502.4, High/Low Temperatures  
 Vibration Test per MIL-STD-810F, Annex A, Category 4, Truck/Trailer/Tracked  
 Shock Test per IEC 60068-2-27, Appendix A, Water Ingress per IP-66

### Electrical

Rx & Tx Cable	2 RG6 cables - 10 m (33 ft) each	
Control Cables		
Standard	10 m (33 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
	<b>Receive</b>	<b>Transmit</b>
Frequency (GHz)	18.30 - 20.20	28.10 - 30.00
Feed Interface (Circular)	RG6	RG6
Nominal G/T	17.5 dB/K	
Nominal EIRP	48.4 dBW	

### RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U from Transceiver to Base Connector

### Physical

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

### Motors

Electrical Interface	24VDC	8 Amp (Max.)
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### Shipping Weights & Dimensions\*

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

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

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981



## TECHNICAL SPECIFICATIONS

The iNetVu® 981 Drive-Away Antenna is a 98 cm Ku-band 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.

## Field Upgradable to Ka-98H, Ka-98G or Ka-98V



## Features

- One-Piece high surface accuracy, offset feed, steel reflector
- Heavy duty feed arm capable of supporting up to 13.5kg (30 lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu® 7024C Controller
- Works seamlessly with the world's most popular commercially available Ku modems and services
- Field upgradable to Ka-band
- 3 Axis motorization
- Supports manual control when desired
- One button, auto-pointing controller acquires any Ku-band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Based on Skyware Global 98 cm reflector with cross-pol feed
- Uses long focal length feed for low cross-pol performance
- Available with pod option
- Standard 2 year warranty

981 Stowed (with pod option)

## Application Versatility

If you operate in Ku-band, the 981 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. The system is also field upgradable to Ka-band. 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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**INTEGRATED SATELLITE SOLUTIONS**

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981


**INTELLISYSTEM**  
 TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	98 cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1^\circ$
Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 90°
Elevation Deploy Speed	Variable 2°/sec typ.
Azimuth Deploy Speed	Variable 15°/sec Max., 10°/sec typ.
Peaking Speed	0.1°/sec

### Environmental

Survival	
Wind Deployed	160 km/h (100 mph)
Wind Stowed	225 km/h (140 mph)
Temperature	-40°C to 65°C (-40°F to 150°F)
Operational	
Wind	72 km/h (45 mph)
Temperature	-30°C to 55°C (-22°F to 130°F)

Thermal Test per MIL-STD-810F, Method 501.4, High/Low Temperatures  
 Vibration Test per MIL-STD-810F, Annex A, Category 4, Truck/Trailer/Tracked  
 Shock Test per IEC 60068-2-27, Water Ingress per IP-66

### Electrical

Rx & Tx Cables	2 RG6 cables -10 m (33 ft) each	
Control Cables		
Standard	10 m (33 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
Frequency (GHz)	<b>Receive</b> 10.70-12.75 <sup>(1)</sup>	<b>Transmit</b> 13.75-14.50
Feed Interface	WR-75	WR-75
Midband Gain ( $\pm 0.2$ dBi)	39.70@12.00 GHz	41.20@14.30 GHz
Antenna Noise Temp. (K)	10° EL=53 / 20° EL= 39 / 30° EL= 32 Max.	
Sidelobe Envelope Co-Pol (dBi)		
1.8° < $\theta$ < 20°	29 - 25 Log $\theta$	
20° < $\theta$ < 26.3°	-3.5	
26.3° < $\theta$ < 48°	32-25 Log $\theta$	
48° < $\theta$ < 180°	-10 (typical)	
Cross-Polarization	> -30 dB in 1 dB Contour	
VSWR	1.5:1	1.3:1

#### Note:

<sup>(1)</sup> LNB PLL Type required with stability better than  $\pm 25$  KHz

### RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U F Type / N Type (optional)
Axis transition	Twist-Flex Waveguide

### Physical

Mounting Plate	L: 161 cm (63.5")	W: 45 cm (17.7")
Stowed Reflector Ext. Dims (without reflector pod)	L: 164.8 cm (64.9")	W: 100 cm (39.5")
H: 30 cm (11.8")		
Stowed Reflector Ext. Dims (with reflector pod)	L: 178.8 cm (70.4")	W: 113 cm (44.5")
H: 30 cm (11.8")		
Deployed Height	151 cm (59.5")	
Platform Weight	54 kg (119 lbs)	
Reflector back cover	2.27 kg (5 lbs)	
Pod alone	6.8 kg (15 lbs)	
Total Platform Weight (without reflector pod)	56.3 kg (124 lbs)	
Total Platform Weight (with reflector pod)	63 kg (139 lbs)	

### Motors

Electrical Interface	24VDC	8 Amp (Max.)
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### Shipping Weights & Dimensions\*

iNetVu 981 system, with POD, controller and standard set of cables, accessories  
 Mount Crate: 186 cm x 112 cm x 69 cm (73" x 44" x 27"), 136 kg (300 lbs)  
 POD box: 127 cm x 41 cm x 127 cm (50" x 16" x 50"), 23 kg (50 lbs)  
 Total Weight with POD: 159 kg (350 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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## INTEGRATED SATELLITE SOLUTIONS

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May 2016

# Ka-98G



## TECHNICAL SPECIFICATIONS

The iNetVu® Ka-98G Drive-Away Antenna is a 98 cm auto-acquire satellite antenna system which can be mounted on the roof of a vehicle for Broadband Internet Access over any configured satellite. The system works seamlessly with the iNetVu® 7024C Controller providing fast satellite acquisition within minutes, anytime anywhere.



Stowed (with pod option)

### Features

- One-Piece high surface accuracy, offset feed, steel reflector
- Heavy duty feed arm capable of supporting up to 5kg (10 lbs) RF transceiver
- Designed to work with the iNetVu® 7024C Controller
- Works seamlessly with the world's most popular commercially available Ka modems and services
- 2 Axis motorization (3 Axis Optional)
- Supports manual control when required
- One button, auto-pointing controller acquires any Ka-band satellite within 2 minutes
- Field upgradable to Ku-band
- Locates satellites using the most advanced satellite acquisition methods
- Supports Skyware Global 98 cm Ka antenna and 3W transceiver
- Avanti approved; also compliant with Gilat (SkyEdge) Ka services
- Available with pod option
- Standard 2 year warranty

avanti Approved Compatibility

### Application Versatility

If you operate in Ka-band, the Ka-98G system is easily configured to provide instant access to satellite communications for any application that requires reliable and/or remote connectivity in a rugged environment. Ideally suited for industries such as Oil & Gas Exploration, Military Communications, Disaster Management, SNG, Emergency Communications Backup, Cellular Backhaul and many others.

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

[www.intellisystem.it](http://www.intellisystem.it)

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## INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change

May 2016



# Ka-98G

**INTELLISYSTEM**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	98 cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1^\circ$
Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 90°
Polarization	LHCP/RHCP (Motorized Option Available)
Elevation Deploy Speed	Variable 2°/sec typ.
Azimuth Deploy Speed	Variable 15°/sec Max., 10°/sec typ.
Peaking Speed	0.1°/sec

### Environmental

Survival	
Wind Deployed	160 km/h (100 mph)
Wind Stowed	225 km/h (140 mph)
Temperature	-40°C to 65°C (-40°F to 150°F)
Operational	
Wind	72 km/h (45 mph)
Temperature	-30°C to 55°C (-22°F to 130°F)

Thermal Test per MIL-STD-810F, Method 501.4, High/Low Temperatures  
 Vibration Test per MIL-STD-810F, Annex A, Category 4, Truck/Trailer/Tracked  
 Shock Test per IEC 60068-2-27, Water Ingress per IP-66

### Electrical

Rx & Tx Cables	2 RG6 cables -10 m (33 ft) each	
Control Cables		
Standard	10 m (33 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
Frequency ( GHz)	<b>Receive</b> 19.20 - 20.20	<b>Transmit</b> 29.50 - 30.0
Feed Interface (Circular)	RG6	RG6
Midband Gain (+0.2 dBi)	43.50 @19.75 GHz	46.60 @29.75 GHz
Antenna Noise Temp. (K)	30° EL= 62 Max.	
Sidelobe Envelope Co-Pol (dBi)		
100λ / D < Ø < 20°	29 - 25 Log Ø	
20° < Ø < 26.3°	-3.5	
26.3° < Ø < 48°	32-25 Log Ø	
48° < Ø < 180°	-10 (typical)	
Cross-Polarization	> -24 dB	> -22 dB
VSWR	1.3:1	

### RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U from Transceiver to Base Connector

### Physical

Mounting Plate	L: 161 cm (63.5")	W: 45 cm (17.7")
Stowed Reflector Ext. Dims (without reflector pod)	L: 164.8 cm (64.9")	W: 100 cm (39.5")
H: 30 cm (11.8")		
Stowed Reflector Ext. Dims (with reflector pod)	L: 178.8 cm (70.4")	W: 113 cm (44.5")
H: 30 cm (11.8")		
Deployed Height	151 cm (59.5")	
Platform Weight	54 kg (119 lbs)	
Reflector back cover	2.27 kg (5 lbs)	
Pod alone	6.8 kg (15 lbs)	
Total Platform Weight (without reflector pod)	56.3 kg (124 lbs)	
Total Platform Weight (with reflector pod)	63 kg (139 lbs)	

### Motors

Electrical Interface	24VDC	8 Amp (Max.)
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### Shipping Weights & Dimensions\*

Crate: 183 cm x 109 cm x 66 cm (72" x 43" x 26"), 52 kg (114 lbs)  
 Platform: 54 kg (119 lbs)  
 7024C Controller: 6 kg (13 lbs)  
 Cables: 5 kg (11 lbs)

Total weight without pod: 117 kg (258 lbs)

Pod inside shipping box:  
 33 cm x 127 cm x 127 cm (13" x 50" x 50"), 16.1 kg (35.5 lbs)

Transportable Case includes Platform (Optional):  
 Platform Case: 183 cm x 109 cm x 47 cm (72" x 43" x 18.5"), 133.5 kg (294 lbs)

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

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May 2016

# 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.

### Eutelsat type approved for Broadband Services



### Features

- One-Piece high surface accuracy, offset feed, steel reflector
- 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](http://www.eutelsat.com/files/contributed/support/pdf/Eutelsat_Broadband_Services.pdf) (P.15)

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# Ka-98V



## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	98 cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1^\circ$
Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 90°
Elevation Deploy Speed	Variable 2°/sec typ.
Azimuth Deploy Speed	Variable 15°/sec Max., 10°/sec typ.
Peaking Speed	0.1°/sec

### Environmental

Survival	
Wind Deployed	160 km/h (100 mph)
Wind Stowed	225 km/h (140 mph)
Temperature	-40°C to 65°C (-40°F to 150°F)
Operational	
Wind	72 km/h (45 mph)
Temperature	-30°C to 55°C (-22°F to 130°F)

Thermal Test per MIL-STD-810F, Method 501.4, High/Low Temperatures  
 Vibration Test per MIL-STD-810F, Annex A, Category 4, Truck/Trailer/Tracked  
 Shock Test per IEC 60068-2-27, Water Ingress per IP-66

### Electrical

Rx & Tx Cables	2 RG6 cables -10 m (33 ft) each	
Control Cables		
Standard	10 m (33 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
	<b>Receive</b>	<b>Transmit</b>
Frequency ( GHz)	18.30 - 20.20	28.10 - 30.0
Feed Interface (Circular)	RG6	RG6
Midband Gain (+0.2 dBi)	43.50 @19.75 GHz	46.60 @29.75 GHz
Antenna Noise Temp. (K)	30° EL= 62 Max.	
Sidelobe Envelope Co-Pol (dBi)		
$100\lambda / D < \theta < 20^\circ$	29 - 25 Log $\theta$	
$20^\circ < \theta < 26.3^\circ$	-3.5	
$26.3^\circ < \theta < 48^\circ$	32-25 Log $\theta$	
$48^\circ < \theta < 180^\circ$	-10 (typical)	
VSWR	1.3:1	

### RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U from Transceiver to Base Connector

### Physical

Mounting Plate	L: 161 cm (63.5")	W: 45 cm (17.7")
Stowed Reflector Ext. Dims (without reflector pod)	L: 164.8 cm (64.9")	W: 100 cm (39.5")
H: 30 cm (11.8")		
Stowed Reflector Ext. Dims (with reflector pod)	L: 178.8 cm (70.4")	W: 113 cm (44.5")
H: 30 cm (11.8")		
Deployed Height	151 cm (59.5")	
Platform Weight	54 kg (119 lbs)	
Reflector back cover	2.27 kg (5 lbs)	
Pod alone	6.8 kg (15 lbs)	
Total Platform Weight (without reflector pod)	56.3 kg (124 lbs)	
Total Platform Weight (with reflector pod)	63 kg (139 lbs)	

### Motors

Electrical Interface	24VDC	8 Amp (Max.)
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### Shipping Weights & Dimensions\*

Crate: 183 cm x 109 cm x 66 cm (72" x 43" x 26"), 52 kg (114 lbs)  
 Platform: 54 kg (119 lbs)  
 7024C Controller: 6 kg (13 lbs)  
 Cables: 5 kg (11 lbs)

Total weight without pod: 117 kg (258 lbs)

Pod inside shipping box:  
 33 cm x 127 cm x 127 cm (13" x 50" x 50"), 16.1 kg (35.5 lbs)

Transportable Case includes Platform (Optional):  
 Platform Case: 183 cm x 109 cm x 47 cm (72" x 43" x 18.5"), 133.5 kg (294 lbs)

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

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Specifications are subject to change

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# Ka-98H



## 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.



Jupiter Radio

Stowed (with pod option)

**“Suitable to operate over the Yahsat’s Yahclick network”**

### Features

- One-Piece high surface accuracy, offset feed, steel 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® 7024C Controller
- Works seamlessly with the world’s most popular commercially available Ka modems and services
- 2 Axis motorization/ 3 Axis optional (Jupiter only)
- 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
- Works with HNS Spaceway (NA)<sup>(1)</sup>, YAHSAT (MENA)<sup>(1)</sup> and Avanti approved<sup>(1)</sup>
- Available with pod option
- Standard 2 year warranty

avanti Approved  
Compatibility

### 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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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016



# Ka-98H



## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	98 cm Elliptical Antenna, Offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1$
Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 90°
Elevation Deploy Speed	Variable 2°/sec typ.
Azimuth Deploy Speed	Variable 15°/sec Max., 10°/sec typ.
Peaking Speed	0.1°/sec

### Environmental

Survival	
Wind Deployed	160 km/h (100 mph)
Wind Stowed	225 km/h (140 mph)
Temperature	-40°C to 65°C (-40°F to 150°F)
Operational	
Wind	72 km/h (45 mph)
Temperature	-30°C to 55°C (-22°F to 130°F)

Thermal Test per MIL-STD-810F, Method 501.4, High/Low Temperatures  
 Vibration Test per MIL-STD-810F, Annex A, Category 4, Truck/Trailer/Tracked  
 Shock Test per IEC 60068-2-27, Water Ingress per IP-66

### Electrical

Rx & Tx Cables	2 RG6 cables - 10 m (33 ft) each	
Control Cables		
Standard	10 m (33 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
	<b>Receive</b>	<b>Transmit</b>
Frequency (GHz)	19.20 - 20.20	29.50 - 30.00
Feed Interface (Circular)	RG6	RG6
Midband Gain ( $\pm 0.2$ dBi)	43.50 @19.75 GHz	46.60 @29.75GHz
Antenna Noise Temp. (K)	30° EL= 62 Max.	
Sidelobe Envelope, Co-Pol (dBi)		
$100\lambda / D < \theta < 20^\circ$	29 - 25 Log $\theta$	
$20^\circ < \theta < 26.3^\circ$	-3.5	
$26.3^\circ < \theta < 48^\circ$	32-25 Log $\theta$	
$48^\circ < \theta < 180^\circ$	-10 (typical)	
Cross-Polarization	> -24 dB	> -22 dB
VSWR	1.3:1	

#### Notes:

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

### RF Interface

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

### Physical

Mounting Plate	L: 161 cm (63.5")	W: 45 cm (17.7")
Stowed Reflector Ext. Dims (without reflector pod)	L: 164.8 cm (64.9")	W: 100 cm (39.5")
Stowed Reflector Ext. Dims (with reflector pod)	H: 30 cm (11.8")	W: 113 cm (44.5")
Deployed Height	L: 178.8 cm (70.4")	H: 30 cm (11.8")
Platform Weight	151 cm (59.5")	
Reflector back cover	54 kg (119 lbs)	
Pod alone	2.27 kg (5 lbs)	
Total Platform Weight (without reflector pod)	6.8 kg (15 lbs)	
Total Platform Weight (with reflector pod)	56.3 kg (124 lbs)	
	63 kg (139 lbs)	

### Motors

Electrical Interface	24VDC	8 Amp (Max.)
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### Shipping Weights & Dimensions\*

Crate: 183 cm x 109 cm x 66 cm (72" x 43" x 26"), 52 kg (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

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May 2016

# Ka-98H/Jup



## TECHNICAL SPECIFICATIONS

The iNetVu® Ka-98H/Jup Drive-Away Antenna is a 98 cm auto-acquire satellite antenna system which can be mounted on the roof of a vehicle for Broadband Internet Access over any configured satellite. The system works seamlessly with the iNetVu® 7710 Controller providing fast satellite acquisition within minutes, anytime anywhere.



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

### Features

- One-Piece high surface accuracy, offset feed, SMC reflector
- Heavy duty feed arm capable of supporting up to 5kg (10 lbs) RF Electronics (LNB & BUC) or transceiver
- Designed to work with the iNetVu® 7710 Controller
- Adapted to operate on HNS Jupiter based Network Technology
- 2 or 3 Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires any Ka-band satellite within 2 minutes
- Field upgradable to Ku-band
- Locates satellites using the most advanced satellite acquisition methods
- Supports GD/HNS 98cm Ka antenna
- Works with HNS Jupiter (NA)<sup>(1)</sup>, YAHSAT (MENA)<sup>(1)</sup> and Avanti<sup>(1)</sup>
- 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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May 2016

# Ka-98H/Jup



## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	98 cm Elliptical Antenna, Offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1$
Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 90°
Elevation Deploy Speed	Variable 2°/sec typ.
Azimuth Deploy Speed	Variable 15°/sec Max., 10°/sec typ.
Peaking Speed	0.1°/sec

### Environmental

Survival	
Wind Deployed	160 km/h (100 mph)
Wind Stowed	225 km/h (140 mph)
Temperature	-40°C to 65°C (-40°F to 150°F)
Operational	
Wind	72 km/h (45 mph)
Temperature	-30°C to 55°C (-22°F to 130°F)

Thermal Test per MIL-STD-810F, Method 501.4, High/Low Temperatures  
Vibration Test per MIL-STD-810F, Annex A, Category 4, Truck/Trailer/Tracked  
Shock Test per IEC 60068-2-27, Water Ingress per IP-66

### Electrical

I/F Cable	1 RG6 cable - 10 m (33 ft)	
Control Cables		
Standard	10 m (33 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
	<b>Receive</b>	<b>Transmit</b>
Frequency (GHz)	19.20 - 20.20	29.50 - 30.00
Feed Interface (Circular)	RG6	RG6
Midband Gain ( $\pm 0.2$ dBi)	43.50 @ 19.75 GHz	46.60 @ 29.75 GHz
Antenna Noise Temp. (K)	30° EL = 62 Max.	
Sidelobe Envelope, Co-Pol (dBi)		
$100\lambda / D < \theta < 20^\circ$	29 - 25 Log $\theta$	
$20^\circ < \theta < 26.3^\circ$	-3.5	
$26.3^\circ < \theta < 48^\circ$	32-25 Log $\theta$	
$48^\circ < \theta < 180^\circ$	-10 (typical)	
Cross-Polarization	> -24 dB	> -22 dB
VSWR	1.3:1	

Notes:

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

### RF Interface

Radio Mounting	Feed Arm <sup>(1)</sup>
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)	

### Motors

Electrical Interface	24VDC	8 Amp (Max.)
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### Shipping Weights & Dimensions\*

Crate: 183 cm x 109 cm x 66 cm (72" x 43" x 26"), 52 kg (115 lbs)  
Platform: 54 kg (119 lbs)  
7710 Controller: 6 kg (13 lbs)  
Cables: 5 kg (11 lbs)

Total weight: 117 kg (258 lbs)

Transportable Case Option:

Base Case: 183 cm x 109 cm x 47 cm (72" x 43" x 18.5"), 133.5 kg (294 lbs)

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

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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016

1201



## TECHNICAL SPECIFICATIONS

The iNetVu® 1201 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. Its reflector optics feature a long focal length for excellent cross-pol performance. All three motorized axes have very low backlash and work together seamlessly with sophisticated integral sensors and the iNetVu® 7024C Controller to ensure excellent pointing accuracy.



## Characterized with Eutelsat

## Features

- 1.2m Offset, prime focus, thermoset-molded reflector with back cover
- Low stow height
- Patented sleek aerodynamic form (Patent # D696649 & D696650)
- Designed to work with the iNetVu® 7024C Controller
- Supports hand cranks
- One button, auto-pointing controller acquires any Ku-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 Skyware 1.2m antenna, Type 125
- Wind deflector pod (optional)
- 2-piece thermoset-molded reflector (optional)
- Characterized with Eutelsat\* and Intelsat Compliant
- Standard 2 year warranty

## Application Versatility

The 1201 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.

\* Static performance: [http://www.eutelsat.com/files/contributed/support/pdf/RF\\_Characterisation.pdf](http://www.eutelsat.com/files/contributed/support/pdf/RF_Characterisation.pdf) (p.17)  
Auto-pointing performance: [http://www.eutelsat.com/files/contributed/satellites/pdf/Autopointing\\_Antennas.pdf](http://www.eutelsat.com/files/contributed/satellites/pdf/Autopointing_Antennas.pdf) (p.3)

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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016



1201


**INTELLISYSTEM**  
 TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector Size & Material	1.2m Glass fibre reinforced polyester <sup>(1)</sup>
Platform Geometry	Elevation over Azimuth
Offset Angle	16.97°
Antenna Optics	One-piece offset feed, prime focus
Azimuth Travel	± 200°
Elevation Look Angle	0° to 90°
Polarization Travel	± 95°
Elevation Deploy Speed	2°/sec
Azimuth Deploy Speed	6°/sec
Peaking Speed	0.2°/sec
Motor Voltage	24 VDC 10 Amp (Max.)

### Environmental

Wind loading	
Operational	75 km/h (46.5 mph)
Survival	
Deployed	112 km/h (70 mph)
Stowed	225 km/h (140 mph)
Temperature	
Operational	-30° to 55° C (-22° to 131° F)
Survival	-40° to 65° C (-40° to 149° F)
Solar Radiation	360 BTU/h/sq. ft.
Rain	1.3 cm/h (0.51 in/h)
Humidity	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, Water Ingress per IP-66	

### Electrical

Rx & Tx Cables	2 RG6 Cables - 10 m (33 ft) each
Control Cables	
Standard	10 m (33 ft) Extension Cable
Optional	Up to 30 m (100 ft) available

### RF Interface

Radio Mounting	Feed arm/Inside vehicle
Coaxial	RG6U F Type
	N Type (optional)
Axis transition	Twist-Flex Waveguide

### Physical

Stowed dimensions	L: 203 cm (79.9")	W: 124 cm (48.8")
(without pod)	H: 35 cm (13.8")	
Stowed Dimensions	L: 225 cm (88.5")	W: 135 cm (53.2")
(with pod)	H: 35 cm (13.8")	
Reflector Weight	16 kg (35.2 lbs)	
(including back cover)		
Total Platform Weight	82 kg (180 lbs)	
(without pod)		
Total Platform Weight	88 kg (193 lbs)	
(with pod)		

### Ku (Linear)

Transmit Power	1 to 200 watt <sup>(2)</sup>	
Feed	2 Port XPol	
	<b>Receive</b>	<b>Transmit</b>
Frequency (GHz)	10.70 - 12.75 <sup>(3)</sup>	13.75 - 14.50
Feed Interface	WR75	WR75
Midband Gain Co-Pol (± 0.2dBi)	41.80	43.30
Antenna Noise Temp. (K)	10° EL = 45 / 30° EL = 24	
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-Polarization on Axis	> 35 dB	
Within 1dB Beamwidth	> 30 dB	
Tx/Rx Isolation	> 40 dB	90 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)  
 Pod: 160 cm x 15 cm x 140 cm (63" x 6" x 55"), 12kg (27 lbs)

Total Weight without pod: 143 kg (315 lbs)  
 Total Weight with pod: 155 kg (342 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:

<sup>(1)</sup> Antenna based on Skyware, Model 125

<sup>(2)</sup> Depending on size and weight for feed arm mounting limitation, Eutelsat Characterized up to 40 watt BUC with Tx XPD >25 dB within 1 dB Contour

<sup>(3)</sup> LNB PLL Type required with stability better than ± 25 KHz

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Specifications are subject to change

May 2016

1202



## TECHNICAL SPECIFICATIONS

The iNetVu® 1202 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. Its reflector optics feature a long focal length for excellent cross-pol performance. All three motorized 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 Ka-Band

## Features

- 1.2m Offset, prime focus, thermoset-molded reflector with back cover
- Low stow height
- Patented sleek aerodynamic form (Patent # D696649 & D696650)
- Designed to work with the iNetVu® 7710 Controller
- Supports hand cranks
- One button, auto-pointing controller acquires any Ku-band satellite within 2 minutes (<3 minutes with Beacon Receiver)
- 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 Skyware 1.2m antenna, Type 125
- Wind deflector pod (optional)
- 2-piece thermoset-molded reflector (optional)
- Compliant with Eutelsat\* and Intelsat
- Standard 2 year warranty

## Application Versatility

The 1202 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.

\* Static performance: [http://www.eutelsat.com/files/contributed/support/pdf/RF\\_Characterisation.pdf](http://www.eutelsat.com/files/contributed/support/pdf/RF_Characterisation.pdf)  
Auto-pointing performance: [http://www.eutelsat.com/files/contributed/satellites/pdf/Autopointing\\_Antennas.pdf](http://www.eutelsat.com/files/contributed/satellites/pdf/Autopointing_Antennas.pdf)

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Specifications are subject to change

May 2016

1202


**INTELLISYSTEM**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector Size & Material	1.2m Glass fibre reinforced polyester <sup>(1)</sup>
Platform Geometry	Elevation over Azimuth
Offset Angle	16.97°
Antenna Optics	One-piece offset feed, prime focus
Azimuth Travel	± 200°
Elevation Look Angle	0° to 90°
Polarization Travel	± 95°
Elevation Deploy Speed	2°/sec
Azimuth Deploy Speed	6°/sec
Peaking Speed	0.2°/sec
Motor Voltage	24 VDC 10 Amp (Max.)

### Environmental

Wind loading	
Operational	75 km/h (46.5 mph)
Survival	
Deployed	112 km/h (70 mph)
Stowed	160 km/h (100 mph)
Temperature	
Operational	-30° to 55° C (-22° to 131° F)
Survival	-40° to 65° C (-40° to 149° F)
Solar Radiation	360 BTU/h/sq. ft.
Rain	1.3 cm/h (0.51 in/h)
Humidity	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	2 RG6 Cables - 10 m (33 ft) each
Control Cables	
Standard	10 m (33 ft) Extension Cable
Optional	Up to 30 m (100 ft) available

### RF Interface

Radio Mounting	Feed arm/Inside vehicle
Coaxial	RG6U F Type
	N Type (optional)
Axis transition	Twist-Flex Waveguide

### Physical

Stowed dimensions (without pod)	L: 203 cm (79.9")	W: 124 cm (48.8")
	H: 35 cm (13.8")	
Stowed Dimensions (with pod)	L: 225 cm (88.5")	W: 135 cm (53.2")
	H: 35 cm (13.8")	
Reflector Weight (including back cover)	16 kg (35.2 lbs)	
Total Platform Weight (without pod)	82 kg (180 lbs)	
Total Platform Weight (with pod)	88 kg (193 lbs)	

### Ku (Linear)

Transmit Power	1 to 200 watt <sup>(2)</sup>	
Feed	2 Port XPOL	
	<b>Receive</b>	<b>Transmit</b>
Frequency (GHz)	10.70 - 12.75 <sup>(3)</sup>	13.75 - 14.50
Feed Interface	WR75	WR75
Midband Gain Co-Pol (± 0.2dBi)	41.80	43.30
Antenna Noise Temp. (K)	10° EL = 45 / 30° EL = 24	
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-Polarization on Axis	> 35 dB	
Within 1dB Beamwidth	> 30 dB	
Tx/Rx Isolation	> 40 dB	90 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)  
 Pod: 160 cm x 15 cm x 140 cm (63" x 6" x 55"), 12kg (27 lbs)

Total Weight without pod: 143 kg (315 lbs)  
 Total Weight with pod: 155 kg (342 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:

<sup>(1)</sup> Antenna based on Skyware, Model 125

<sup>(2)</sup> Depending on size and weight for feed arm mounting limitation, Eutelsat Characterized up to 40 watt BUC with Tx XPD >25 dB within 1 dB Contour

<sup>(3)</sup> LNB PLL Type required with stability better than ± 25 KHz

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## INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change

May 2016

# 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

#### 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 & tooway™)
- 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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## INTEGRATED SATELLITE SOLUTIONS

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May 2016



# Ka-1202V

**INTELLISYSTEM**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

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

### Environmental

Wind loading	
Operational	72 km/h (45 mph)
Survival	
Deployed	112 km/h (70 mph)
Stowed	160 km/h (100 mph)
Temperature	
Operational	-30° to 55° C (-22° to 131° F)
Survival	-40° to 65° C (-40° to 149° F)
Solar Radiation	360 BTU/h/sq. ft.
Rain	1.3 cm/h (0.51 in/h)
Humidity	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	Single IFL, RG6 cable - 10 m (33 ft)
Control Cables	
Standard	10 m (33 ft) Extension Cable
Optional	Up to 30 m (100 ft) available

### RF Interface

Radio Mounting	Feed arm/Inside vehicle
----------------	-------------------------

### Physical

Stowed dimensions	L: 203 cm (79.9") H: 35 cm (13.8")	W: 124 cm (48.8")
Reflector Weight (including back cover)	16 kg (35.2 lbs)	
Total Platform Weight	82 kg (180 lbs)	

### Ka (Circular)

Feed Interface	RG6 F Type	
	<b>Receive</b>	<b>Transmit</b>
Frequency (GHz)	19.70 - 20.20	29.50 - 30.00
Midband Gain Co-Pol (± 0.2dBi)	46.50	49.60
G/T	23.6 dB/K	
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

#### Notes:

<sup>(1)</sup> Antenna based on General Dynamics

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## INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change

May 2016

# 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

#### 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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# Ka-1202G



## TECHNICAL SPECIFICATIONS

### Mechanical

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

### Environmental

Wind loading	
Operational	72 km/h (45 mph)
Survival	
Deployed	112 km/h (70 mph)
Stowed	160 km/h (100 mph)
Temperature	
Operational	-30° to 55° C (-22° to 131° F)
Survival	-40° to 65° C (-40° to 149° F)
Solar Radiation	360 BTU/h/sq. ft.
Rain	1.3 cm/h (0.51 in/h)
Humidity	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	2 RG6 cables
Control Cables	
Standard	10 m (33 ft) Extension Cable
Optional	Up to 30 m (100 ft) available

### RF Interface

Radio Mounting	Feed arm/Inside vehicle
----------------	-------------------------

### Physical

Stowed dimensions	L: 203 cm (79.9") H: 35 cm (13.8")	W: 124 cm (48.8")
Reflector Weight (including back cover)	16 kg (35.2 lbs)	
Total Platform Weight	82 kg (180 lbs)	

### Ka (Circular)

Feed Interface	RG6 F Type	
	<b>Receive</b>	<b>Transmit</b>
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 GHz	
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

#### Notes:

<sup>(1)</sup> Antenna based on General Dynamics/Skyware Global

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# 1501



## TECHNICAL SPECIFICATIONS

The iNetVu® 1501 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. Its reflector optics feature a long focal length for excellent cross-pol performance. All three motorized axes have very low backlash and work together seamlessly with sophisticated integral sensors and the iNetVu® 7710 Controller to ensure excellent pointing accuracy.



### Features

- 1.5m Offset, prime focus, carbon fibre reflector
- Low stow height
- Designed to work with the iNetVu® 7710 Controller
- Supports hand cranks
- Supports up to 100W Redundant BUC directly on feed arm
- One button, auto-pointing controller acquires any 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
- Standard 2 year warranty

### Application Versatility

The 1501 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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Draft May 2016

1501



## TECHNICAL SPECIFICATIONS

**Mechanical**

Reflector Size & Material	1.5m Carbon Fibre
Platform Geometry	Elevation over Azimuth
Offset Angle	16.97°
Antenna Optics	One-piece offset feed, prime focus
Azimuth Travel	± 180°
Elevation Look Angle	0° to 90°
Polarization Travel	± 95°
Elevation Deploy Speed	2°/sec
Azimuth Deploy Speed	6°/sec
Peaking Speed	0.2°/sec
Motor Voltage	24 VDC 10 Amp (Max.)

**Environmental**

Wind loading	
Operational	72 km/h (45 mph)
Survival	
Deployed	112 km/h (70 mph)
Stowed	160 km/h (100 mph)
Temperature	
Operational	-30° to 55° C (-22° to 131° F)
Survival	-40° to 65° C (-40° to 149° F)
Solar Radiation	1000Kcal/h/m (360 BTU/h/sq. ft.)
Rain	10 cm/h (4 in/h)
Humidity	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	

**Antenna Bands**

Transmit Power <sup>(1)</sup>	1 to 200 watt				
Feed	2 Port XPol				
	<i>Ku-Linear</i>		<i>C-Linear</i> <sup>(3)</sup>		<i>C-Circular</i> <sup>(3)</sup>
	<b>Receive</b>	<b>Transmit</b>	<b>Receive</b>	<b>Transmit</b>	<b>Receive</b>
Frequency (GHz)	10.70 - 12.75 <sup>(2)</sup>	13.75 - 14.50	3.40 - 4.20 <sup>(2)</sup>	5.850 - 6.725	3.625 - 4.20 <sup>(2)</sup> 5.850 - 6.425
Feed Interface	WR75	WR75	CPR-229	N or CPR-137	CPR-229 N or CPR-137
Midband Gain Co-Pol (± 0.2dBi)	43.70	45.00	33.40	37.20	33.30 37.10
Antenna Noise Temp. (K)	10° EL = 65 / 20° EL = 58		10° EL = 45 / 20° EL = 40		10° EL = 41 / 20° EL = 36
Sidelobe Envelope, Co-Pol (dBi)	Meets ITU 580, INTELSAT		IESS 601 STD G		29-25 Log Ø
1.5° < Ø < 20°			-3.5		-3.5
20° < Ø < 26.3°			32-25 Log Ø		32-25 Log Ø
26.3° < Ø < 48°			-10 (Typical)		-10 (Typical)
48° < Ø < 180°			> 30 dB		N/A
Cross-Polarization on Axis	> 35 dB		> 26 dB		N/A
Within 1 dB Beamwidth	> 30 dB		> 60 dB		> 60 dB 60 dB
Tx/Rx Isolation	> 40 dB	90 dB	> 60 dB	35 dB	1.5:1 1.3:1
VSWR	1.3:1	1.3:1	1.5:1	1.3:1	

**Notes:**<sup>(1)</sup> Depending on size and weight for feed arm mounting limitation<sup>(2)</sup> LNB PLL Type required with stability better than ± 25 KHz<sup>(3)</sup> Call your C-COM sales representative for availability**Electrical**

Rx & Tx Cables	2 RG6 Cables - 10 m (33 ft) each
Control Cables	
Standard	10 m (33 ft) Extension Cable
Optional	Up to 30 m (100 ft) available

**RF Interface**

Radio Mounting	Feed arm/Inside vehicle
Coaxial	RG6U F Type N Type (optional)
Axis transition	Rotary Joint + Twist-Flex Waveguide

**Physical**

Stowed dimensions	L: 203 cm (79.9")	W: 154 cm (60.5")
	H: 49 cm (19.25")	
Reflector Weight	11.3 kg (25 lbs)	
Platform Weight	72.7 kg (160 lbs)	
Total Platform Weight	84 kg (185 lbs)	

**Shipping Weights & Dimensions\***

Platform Crated: 211 cm x 41 cm x 61 cm (83" x 16" x 24"), 118 kg (260 lbs)  
 Reflector Crate: 168cm x 168cm x 48cm (66" x 66" x 19"), 116.3 kg (256 lbs)  
 Total Weight: 234.3 kg (516 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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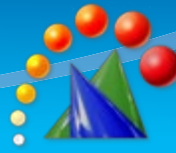
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**INTEGRATED SATELLITE SOLUTIONS**

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**Intellisystem**  
TECHNOLOGIES

TECHNICAL SPECIFICATIONS



# CLASSIC DRIVEAWAYS



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# Classic Drive-Aways



## TECHNICAL SPECIFICATIONS

**980**



**980-REM**



**1200**



**1500**



**1800+**



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980



## TECHNICAL SPECIFICATIONS

The iNetVu® 980 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® 7000C Controller providing fast satellite acquisition within minutes, anytime anywhere.



## Features

- One-Piece offset feed, prime focus, SMC reflector with back cover
- Heavy duty platform for up to 5kg (10 lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu® 7000C controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 3 Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires any Ku-band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Supports Prodelin 98 cm antenna, Model 1984 & 1985
- Standard 2 year warranty

## Application Versatility

If you operate in Ku-band, the 980 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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980


**INTELLISYSTEM**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	98 cm Prime focus, offset feed <sup>(1)</sup>
Platform Geometry	Elevation over Azimuth
Polarization	Reflector rotation cross-pol isolation
	GPS antenna
Deployment Sensors	Compass ± 2°
	Tilt sensor ± 0.2°
Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 65°
Polarization	±70°
Elevation Deploy Speed	Variable 5°/sec typ.
Azimuth Deploy Speed	Variable 15°/sec Max., 10°/sec typ.
Peaking Speed	0.2°/sec

### Environmental

Survival		
Wind Deployed	160 km/h	(100 mph)
Wind Stowed	225 km/h	(140 mph)
Temperature	-40°C to 65°C	(-40°F to 150°F)
Operational		
Wind	72 km/h	(45 mph)
Temperature	-30°C to 55°C	(-22°F to 130°F)

Thermal Test per MIL-STD-810F, Method 501.4, Low Temperatures

### Electrical

Rx & Tx cable	2 RG6 cables - 9.1 m (30 ft) each	
Control cables:		
Standard	9.1 m (30 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
Transmit Power <sup>(2)</sup>	1 to 200 Watt (Ku-band)	
	<b>Receive</b>	<b>Transmit</b>
Frequency, Ku-band (GHz)	10.95-12.75 <sup>(3)</sup>	13.75-14.50
Midband Gain (±0.2 dB)	39.80	41.30
Sidelobe Envelope, Co-Pol (dBi)		
100λ / D < Ø < 20°	29 - 25 Log Ø	
20° < Ø < 26.3°	-3.5	
26.3° < Ø < 48°	32 - 35 Log Ø	
48° < Ø < 180°	-10 (averaged)	
Cross-Polarization		
Within B.P.E.	-30 dB (Max.)	
Any Angle off Axis	-25 dB (Max.)	
VSWR	1.3:1 (Max.)	

### RF Interface

Radio Mounting	Feed Arm / Rear of Base / Inside Vehicle
Axis Transition	Twist-Flex Waveguide
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U from Feedhorn to Base Connector
European/Eutelsat Feed	Prodelin Model 1985 Based (2 Port - X Pol)
Standard Feed	Prodelin Model 1984 Based (2 Port - X Pol)

### Physical

Mounting Plate	L: 127 cm (50")
	W: 46 cm (18")
Stowed Reflector Ext. Dims	L: 155 cm (61")
	W: 100 cm (39.5")
	H: 46 cm (18.3")
Deployed Height	132 cm (52")
Reflector Assembly Weight	13.7 kg (30 lbs)
Platform Weight	51.3 kg (113 lbs)
Total Weight	65 kg (143 lbs)

### Motors

Electrical Interface	12VDC	15 Amp (Max.)
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### Shipping Weights & Dimensions\*

Empty Crate: 163 cm x 107 cm x 72 cm (64" x 42" x 28"), 54 kg (119 lbs)  
 Platform: 65 kg (143 lbs)  
 7024C Controller: 6 kg (13 lbs)  
 Cables: 5 kg (11 lbs)

Total Weight: 130 kg (286 lbs)

Transportable Case includes Platform: (Optional)  
 172 cm x 111 cm x 74 cm (68" x 44" x 29"), 160 kg (353 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 Prodelin, Model 1984. Eutelsat Feed, Model 1985 is also available as an option
- (2) Depending on size and weight for feed arm mounting limitation
- (3) LNB PLL Type required with stability better than ± 25 KHz

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## INTEGRATED SATELLITE SOLUTIONS

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May 2016

# 980-REM



## TECHNICAL SPECIFICATIONS

The iNetVu® 980-REM Drive-Away Antenna is a 98 cm auto-acquire satellite antenna system which can be mounted on the roof of a vehicle or in a transportable case for Broadband Internet Access over any configured satellite. The system works seamlessly with the iNetVu® 7000C Controller & Hughes Rembrandt 2Watt Transceiver providing fast satellite acquisition within minutes, anytime anywhere.



### Features

- One-Piece offset feed, prime focus, SMC reflector with back cover
- Heavy duty platform designed for Hughes Rembrandt 2W Transceiver
- Designed to work with the iNetVu® 7000C controller
- Works seamlessly with the Hughes Ku Modems
- 3 Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires any Ku-band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Supports Prodelin 98 cm antenna, Model 1984 & 1985
- Standard 2 year warranty

### Application Versatility

If you operate in Ku-band, the 980 Hughes Rembrandt 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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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016



# 980-REM



## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	98 cm Prime focus, offset feed <sup>(1)</sup>
Platform Geometry	Elevation over Azimuth
Polarization	Reflector rotation cross-pol isolation
Deployment Sensors	GPS antenna Compass ± 2° Tilt sensor ± 0.2°
Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 65°
Polarization	±70°
Elevation Deploy Speed	Variable 5°/sec typ.
Azimuth Deploy Speed	Variable 15°/sec Max., 10°/sec typ.
Peaking Speed	0.2°/sec

### Environmental

Survival		
Wind Deployed	160 km/h	(100 mph)
Wind Stowed	225 km/h	(140 mph)
Temperature	-40°C to 65°C	(-40°F to 150°F)
Operational		
Wind	72 km/h	(45 mph)
Temperature	-30°C to 55°C	(-22°F to 130°F)

Thermal Test per MIL-STD-810F, Method 501.4, Low Temperatures

### Electrical

Rx & Tx cable	2 RG6 cables - 9.1 m (30 ft) each	
Control cables:		
Standard	9.1 m (30 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
Transmit Power <sup>(2)</sup>	1 to 200 Watt (Ku-band)	
	<b>Receive</b>	<b>Transmit</b>
Frequency, Ku-band (GHz)	10.95-12.75 <sup>(3)</sup>	13.75-14.50
Midband Gain (±0.2 dB)	39.80	41.30
Sidelobe Envelope, Co-Pol (dBi)		
100λ / D < Ø < 20°	29 - 25 Log Ø	
20° < Ø < 26.3°	-3.5	
26.3° < Ø < 48°	32 - 35 Log Ø	
48° < Ø < 180°	-10 (averaged)	
Cross-Polarization		
Within B.P.E.	-30 dB (Max.)	
Any Angle off Axis	-25 dB (Max.)	
VSWR	1.3:1 (Max.)	

### RF Interface

Radio Mounting	Feed Arm / Rear of Base / Inside Vehicle
Axis Transition	Twist-Flex Waveguide
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U from Feedhorn to Base Connector
European/Eutelsat Feed	Prodelin Model 1985 Based (2 Port - X Pol)
Standard Feed	Prodelin Model 1984 Based (2 Port - X Pol)

### Physical

Mounting Plate	L: 127 cm (50")
	W: 46 cm (18")
Stowed Reflector Ext. Dims	L: 155 cm (64")
	W: 100 cm (39.5")
	H: 46 cm (20.5")
Deployed Height	132 cm (52")
Reflector Assembly Weight	13.7 kg (30 lbs)
Platform Weight	52.2 kg (115 lbs)
Total Weight	65.8 kg (145 lbs)

### Motors

Electrical Interface	12VDC	15 Amp (Max.)
----------------------	-------	---------------

### Shipping Weights & Dimensions\*

Empty Crate: 163 cm x 107 cm x 72 cm (64" x 42" x 28"), 54 kg (119 lbs)  
 Platform: 65 kg (143 lbs)  
 7024C Controller: 6 kg (13 lbs)  
 Cables: 5 kg (11 lbs)

Total Weight: 130 kg (286 lbs)

Transportable Case includes Platform: (Optional)  
 172 cm x 111 cm x 74 cm (68" x 44" x 29"), 160 kg (353 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 Prodelin, Model 1984. Eutelsat Feed, Model 1985 is also available as an option
- (2) Depending on size and weight for feed arm mounting limitation
- (3) LNB PLL Type required with stability better than ± 25 KHz

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## INTEGRATED SATELLITE SOLUTIONS

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May 2016

1200



## TECHNICAL SPECIFICATIONS

The iNetVu® 1200 Drive-Away Antenna is a 1.2m 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® 7000C Controller providing fast satellite acquisition within minutes, anytime anywhere.



## Features

- One-Piece offset feed, prime focus, SMC reflector with a back cover
- Heavy duty platform for up to 11kg (25 lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu® 7000C controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 3 Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires any Ku-band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Supports Prodelin 1.2m antenna, Model 1132/1134
- Standard 2 year warranty

## Application Versatility

If you operate in Ku-band, the 1200 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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**INTEGRATED SATELLITE SOLUTIONS**

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1200


**Intellisystem**  
 TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	1.2m Prime Focus, Offset Feed, SMC <sup>(1)</sup>
Platform Geometry	Elevation Over Azimuth
Deployment Sensors	GPS antenna Compass ± 2° Tilt sensor ± 0.1°
Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 78° <sup>(2)</sup>
Polarization	±90°
Elevation Deploy Speed	Variable 2°/sec typ.
Azimuth Deploy Speed	Variable 15°/sec Max., 10°/sec typ.
Peaking Speed	0.2°/sec

### Electrical

Rx & Tx cable	2 RG6 cables - 9.1m (30 ft) each	
Control cables	9.1 m (30 ft) Ext. Cable with MIL Connectors up to 60 m (200 ft) available	
Standard:		
Optional:		
	<b>Ku-band (Linear)</b>	<b>X-band (Circular)</b>
Transmit Power <sup>(3)</sup>	1 to 200 Watt	1 to 40 Watt
Receive Frequency (GHz)	10.70 - 12.75 <sup>(4)</sup>	7.25 - 7.75
Transmit Frequency (GHz)	13.75 - 14.50	7.90 - 8.40
Midband Gain(±0.2 dB)		
(Rx)	41.50	37.40
(Tx)	43.00	38.10
Antenna Noise Temp. (K)	20° EL=46 / 30° EL=43	20° EL=51.6
Sidlobe Envelope, Co-Pol (dBi)		
1° < Ø < 20°	29 - 25 Log Ø	DSCS Req.
20° < Ø < 26.3°	-3.5	
26.3° < Ø < 48°	32 - 25 Log Ø	
48° < Ø < 180°	-10 (averaged)	
Cross-Polarization		
Within 1 dB contour	-30 dB (Max.)	
Any angle off axis	-25 dB (Max.)	
VSWR	1.3:1 (Max.)	1.25:1 (Max.)

### Environmental

Survival		
Wind Deployed	112 km/h	(70 mph)
Wind Stowed	225 km/h	(140 mph)
Temperature	-40°C to 65°C	(-40°F to 150°F)
Operational		
Wind	72 km/h	(45 mph)
Temperature	-32°C to 55°C	(-26°F to 130°F)

Thermal Test per MIL-STD-810F, Method 501.4, Low Temperatures

### Physical

Mounting Plate	L: 132 cm (52")	W: 56 cm (22")
Stowed Reflector Ext. Dims	L: 177 cm (69.75")	W: 123 cm (48.6")
	H: 49 cm (19.25") <sup>(5)</sup>	
Deployed Height	168 cm (66")	
Reflector Weight	15.9 kg (35 lbs)	
Total Weight w/Reflector	92.5 kg (204 lbs)	

### RF Interface

Radio Mounting	Feed Arm / Rear of Base / Inside Vehicle
Axis Transition	Twist-Flex Waveguide
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U from Feed Arm to Base
Feed	2 port Xpol

### Motors

Electrical Interface	12VDC	15 Amp (Max.)
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### Shipping Weights & Dimensions\*

Platform Crate: 168 cm x 89 cm x 77 cm (66" x 35" x 30"), 59.5 kg (131 lbs)  
 Platform: 76.5 kg (168 lbs) 7000C Controller: 6 kg (13 lbs) Cables: 5 kg (11 lbs)  
 Reflector Crate: 145 cm x 15 cm x 130 cm (57" x 6" x 51"), 22 kg (48 lbs)  
 Total Weight: 169 kg (371 lbs)

1-Piece Transportable Case: (Optional)  
 219 cm x 143 cm x 84 cm (86" x 56" x 33"), Appr. 164 kg (362 lbs)

2-Piece Plastic Transportable Cases: (Optional)  
 Platform: 178 cm x 69 cm x 74 cm (70" x 27" x 29"), 149 kg (328 lbs)  
 Reflector: 132cm x 25cm x 147cm (52" x 10" x 58"), 49 kg (109 lbs)  
 Total Weight: 198 kg (437 lbs)

2-Piece Metallic Transportable Cases: (Optional)  
 Platform: 178 cm x 76 cm x 74 cm (70" x 30" x 29"), 161.5 kg (356 lbs)  
 Reflector: 132cm x 25cm x 147cm (52" x 10" x 58"), 50 kg (110 lbs)  
 Total Weight: 211.5 kg (466 lbs)

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

### Notes:

- <sup>(1)</sup> Antenna based on Prodelin, Model 1132 / 1134
- <sup>(2)</sup> Adjustable at the time of order to support higher elevation angle (Optional)
- <sup>(3)</sup> Depending on size and weight for feed arm mounting limitation
- <sup>(4)</sup> LNB PLL Type required with stability better than ± 25 KHz
- <sup>(5)</sup> Lower stow height option available (approx 4 cm lower)

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## INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change

May 2016

# 1500

**INTELLISYSTEM**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

The iNetVu® 1500 Drive-Away Antenna is a 1.5m 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® 7000C Controller providing fast satellite acquisition within minutes, anytime anywhere.



### Features

- One-Piece precision mold, offset feed, carbon fibre reflector
- Heavy duty platform for up to 11kg (25 lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu® 7000C Controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 3 Axis motorization
- Supports manual control when required
- One button, auto-pointing Controller acquires any Ku or C band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Standard 2 year warranty

### Application Versatility

If you operate in Ku or C band, the 1500 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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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016

1500


**INTELLISYSTEM**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	1.5m Carbon Fibre
Platform Geometry	Parabolic Single Offset, 0.78 F/D (16.9° offset)
Deployment Sensors	GPS antenna Compass ± 2° Tilt sensor ± 0.2°
Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 75°
Polarization	±90°
Elevation Deploy Speed	Variable 2°/sec typ.
Azimuth Deploy Speed	Variable 15°/sec Max., 10°/sec typ.
Peaking Speed	0.2°/sec

### Environmental

Survival	
Wind Deployed	112 km/h (70 mph)
Wind Stowed	225 km/h (140 mph)
Temperature	-40°C to 65°C (-40°F to 150°F)
Rain	15 cm/h (6 in/h)
Operational	
Rain	10 cm/h (4 in/h)
Wind	72 km/h (45 mph)
Temperature	-30°C to 55°C (-22°F to 130°F)
Relative Humidity	0 - 100%
Solar Radiation	360 btu/h/ft2 (1000 Kcal/h/m)
Radial Ice (survival)	2.54 cm (1")
Corrosive Atmosphere	As encountered in coastal / industrial areas

### Electrical

Tx & Rx cables	2 RG6 cables - 9.1m (30 ft) each
Control Cables	
Standard	9.1m (30 ft) Ext. Cable with MIL Connectors
Optional	up to 60 m (200 ft) available

### RF Interface

Radio Mounting	Feed Arm / Rear of Base / Inside Vehicle
Axis Transition	Twist-Flex Waveguide
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U from Feed Arm to Base
Feed	2 port Xpol
VSWR	1.3:1 (Max.)

### Physical

Mounting Plate	L: 132 cm (52")	W: 56 cm (22")
Stowed Reflector Ext. Dims	L: 189 cm (74.5")	W: 154 cm (60.5")
	H: 49 cm (19.25")	
Deployed Height	180 cm (71")	
Reflector Weight	11.3 kg (25 lbs)	
Total Weight w/Reflector	87 kg (192 lbs)	

Note: <sup>(1)</sup> LNB PLL Type required with stability better than ± 25 KHz

### Motors

Electrical Interface	12VDC	15 Amp (Max.)
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### 2 Port Cross Pol (Ku-Band)

	Receive	Transmit
Standard Frequency (GHz)	10.70-12.75 <sup>(1)</sup>	13.75-14.50
Midband Gain (± .2 dBi)	43.70	45.00
Cross Pol: On Axis	-35 dB	
in 1 dB BW	-28 dB	
Sidelobe Compliances	Meets ITU 580, INTELSAT	
Isolation: Tx / Rx	-85 dB	0 dBm input
Rx / Tx	0 dB input	-35 dB
Antenna Noise Temp. (°K)	10° EL= 65 / 20° EL= 58	
VSWR	1.50:1	1.30:1

### 2 Port C-Band (Linear)

	Receive	Transmit
Standard Frequency (GHz)	3.40-4.20 <sup>(1)</sup>	5.850-6.725
INSAT Frequency (GHz)	4.50-4.80	6.725-7.025
Midband Gain (± .2 dBi)	33.40	37.20
Cross Pol: On Axis (Std)	-30 dB	
On Axis (INSAT)	-35 dB	
in 1 dB BW	-26 dB	-26 dB
Sidelobe Compliances	IESS 601 Std G	
Isolation: Tx / Rx (Std)	-60dB	0 dBm input
Tx / Rx (INSAT)	-70 dB	
Rx / Tx	0 dBm input	-35 dB
Antenna Noise Temp. (K)	10° EL= 45 / 20° EL= 40	
VSWR	1.50:1	1.30:1

### 2 Port C-Band (Circular)

	Receive	Transmit
Standard Frequency (GHz)	3.625-4.20 <sup>(1)</sup>	5.85-6.425
Midband Gain (± .2 dBi)	33.30	37.10
Sidelobe Envelope, Co-Pol (dBi)		
2.8° < Ø < 20°	29 - 25 Log Ø	
20° < Ø < 26.3°	-3.5	
26.3° < Ø < 48°	32-25 Log Ø	
48° < Ø < 180°	-10	
Feed Interface	CPR-229n	Type N or CPR- 137
Isolation (Port to Port)	-60dB	-60dB
Antenna Noise Temp.(K)	10° EL= 41 / 20° EL= 36	
VSWR	1.50:1	1.30:1

### Shipping Weights & Dimensions\*

Crate: 213cm x 89cm x 84cm (84" x 35" x 33"), 64.5 kg (142 lbs)  
 Platform: 75.9 kg (167 lbs); 7024C Controller: 6 kg (13 lbs); Cables: 5 kg (11 lbs)  
 Reflector Crate: 168cm x 168cm x 48cm (66" x 66" x 19"), 115 kg (256 lbs)  
 Total, Platform Crate and Reflector Crate, 2 - Pieces: 267kg (589 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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## INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change

May 2016



1800+



## TECHNICAL SPECIFICATIONS

The iNetVu® 1800+ Drive-Away Antenna is a 1.8m 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® 7000C Controller providing fast satellite acquisition within minutes, anytime anywhere.



## Features

- One-Piece precision offset, thermoset-molded reflector with back cover
- Heavy duty feed arm capable of supporting up to 11kg (25 lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu® 7000C controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 3 Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires any Ku or C band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Supports Skyware Global 1.8m antenna Type 183
- Standard 2 year warranty

## Application Versatility

Whether you operate in Ku or C band, the 1800+ 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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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016

1800+


**Intellisystem**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	1.8m prime focus, offset feed, SMC <sup>(1)</sup>
Platform Geometry	Elevation over Azimuth
Deployment Sensors GPS Antenna	Compass $\pm 2^\circ$ , Tilt Sensor $\pm 0.2^\circ$
F/D Ratio	0.61
Azimuth	Full 360° in overlapping, 200° sectors
Elevation	0° to 75° (Optional - up to 80°)
Polarization	$\pm 90^\circ$
Elevation Deploy Speed	Variable 2° /sec typ.
Azimuth Deploy Speed	Variable 15° /sec typ., 10° /sec typ.
Peaking Speed	0.1° /sec
Motor Voltage	12VDC 15 Amp (Max.)

### Environmental

Wind loading	
Operational	72 km/h (45 mph)
Survival	
Deployed	112 km/h (70 mph)
Stowed	225 km/h (140 mph)
Temperature	
Operational	-32° to 55° C (-26° to 130° F)
Survival	-40° to 65° C (-40° to 149° F)

### Electrical

Rx & Tx Cables	2 RG6 Cables
Control Cables	
Standard	9.1 m (30 ft) Extension Cable
Optional	Up to 45 m (150 ft) available

### RF Interface

Radio Mounting	Feed arm/ Inside vehicle
Coaxial	RG6U from feedhorn to base plate
Axis Transition	Twist-Flex Waveguide
Electrical Interface	9.1m (30 ft) ext. cables w/MIL connectors
VSWR	Tx 1.3:1

### Physical

Mounting Plate	L: 132 cm (52")	W: 71 cm (28")
Stowed Dimensions	L: 249 cm (98")	W: 188 cm (74")
	H: 67 cm (26.4")	
Deployed Height	248 cm (97.6")	
Total Weight (w reflector)	162 kg (358 lbs)	
Reflector Weight	37 kg (81 lbs)	
Total Platform Weight	125 kg (275 lbs)	

### Ku-Band (Linear Orthogonal)

	Receive	Transmit
Transmit Power	(1 to 200 watt <sup>(2)</sup> )	
Frequency (GHz)	10.70-12.75	13.75-14.50
Feed Interface	WR75	WR75
Efficiency	70%	70%
Midband Gain ( $\pm 0.2$ dB)	45.30	46.80
Antenna Noise Temp. (K)	10° EL= 43 / 20° EL= 28 / 30° EL=23	
Sidelobe Envelope,	1°< $\theta$ <20°	29-25 Log $\theta$
Co-Pol (dBi)	20°< $\theta$ <26.3°	-3.5
	26.3°< $\theta$ <48°	32-25 Log $\theta$
	48°< $\theta$ <180°	-10 (Average)
Cross-Polarization on Axis	-30 dB	
Within 0.5 dB Beamwidth	-26 dB	
Isolation (Port to Port)	35 dB	80 dB

### C-Band (Linear)

	Receive	Transmit
Standard Frequency (GHz)	3.4-4.2	5.850-6.725
INSAT Frequency (GHz)	4.5-4.8	6.725-7.025
Feed Interface	WR229	WR137 or Type N
Midband Gain ( $\pm 0.3$ dB)	35.40	39.30
Antenna Noise Temp. (K)	10° EL= 41 / 20° EL= 36 / 30° EL=33	
Sidelobe Envelope,	2.5°< $\theta$ <20	29-25 Log $\theta$
Co-Pol (dBi)	20°< $\theta$ <26.3°	-3.5
	26.3°< $\theta$ <48°	32-25 Log $\theta$
	48°< $\theta$ <180°	10 (Average)
Cross-Pol: on Axis	-30 dB	
INSAT Axis	-35 dB	
Isolation (Port to Port)	60 dB	60 dB

### C-Band (Circular)

	Receive	Transmit
Standard Frequency (GHz)	3.625-4.20	5.85-6.425
Feed Interface	WR229	WR137 or Type N
Midband Gain ( $\pm 0.4$ dB)	35.40	39.50
Antenna Noise Temp. (K)	10° EL= 41 / 20° EL= 36 / 30° EL= 33	
Sidelobe Envelope,	2.8°< $\theta$ <20°	29-25 Log $\theta$
Co-Pol (dBi)	20°< $\theta$ <26.3°	-3.5
	26.3°< $\theta$ <48°	32-25 Log $\theta$
	48°< $\theta$ <180°	-10 (Average)
Isolation (Port to Port)	60 dB	60 dB

### Shipping Weights & Dimensions\*

Crate: 213cm x 89cm x 84cm (84" x 35" x 33"), 55 kg (121 lbs)  
 Platform: 123 kg (272 lbs); 7024C Controller: 6 kg (13 lbs); Cables: 5 kg (11 lbs)  
 Reflector Box (Reflector, Back Cover included) on Pallet, wood:  
 208cm x 206cm x 38cm (82" x 81" x 15"), 102 kg (225 lbs)  
 Total weight on Pallet, 2 – Pieces: 292 kg (642 lbs)

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

Notes: <sup>(1)</sup> Antenna based on Skyware Global, Type 183  
<sup>(2)</sup> Depending on size and weight for feed arm mounting limitation  
<sup>(3)</sup> LNB PLL Type required with stability better than  $\pm 25$  KHz

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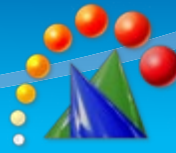
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## INTEGRATED SATELLITE SOLUTIONS

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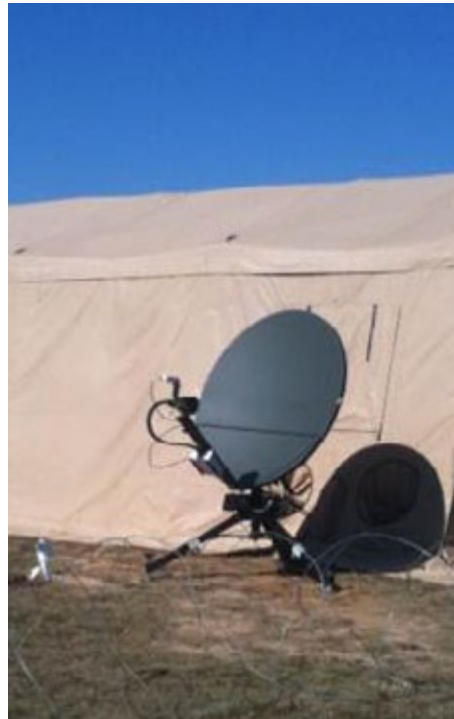


**Intellisystem**  
TECHNOLOGIES

TECHNICAL SPECIFICATIONS



# FLY-AWAY ANTENNAS



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# Fly-Aways



## TECHNICAL SPECIFICATIONS

**FLY-75V**

**FLY-981**

**FLY-98V**

**FLY-98H**

**FLY-98G**



**ACFLY-1200**

**FLY-1201**

**FLY-1202**



**FLY-1202V**

**FLY-1202G**

**FLY-1801**



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# 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 NEWSPOTTER NEWSGATHERING service by Eutelsat\*"



### Features

- One-Piece, high surface accuracy, offset feed, steel reflector
- 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](http://www.eutelsat.com/files/contributed/support/pdf/Eutelsat_Broadband_Services.pdf) (p.14)

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# FLY-75V

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TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	75cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1^\circ$
Azimuth	$\pm 175^\circ$
Elevation	0 - $90^\circ$
Polarization	Circular, Auto-switching
Elevation Deploy Speed	Variable, $3^\circ/\text{sec}$ typ.
Azimuth Deploy Speed	Variable $3^\circ/\text{sec}$ typ.
Peaking Speed	$0.1^\circ/\text{sec}$

### Environmental

Wind loading	
Operational (no ballast)	50 km/h (30 mph)
Operational (with ballast)	72 km/h (45 mph)
Temperature	
Operational	$-30^\circ$ to $60^\circ$ C ( $-22^\circ$ to $140^\circ$ F)
Survival	$-40^\circ$ to $65^\circ$ C ( $-40^\circ$ to $149^\circ$ 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 Rating: IP-66

### Electrical

Rx & Tx Cable	Single IFL, RG6 cable - 10 m (33 ft)	
Control Cables		
Standard	10 m (33 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
	<b>Receive</b>	<b>Transmit</b>
Frequency (GHz)	18.30 - 20.20	28.10 - 30.00
Feed Interface (Circular)	RG6	RG6
Nominal G/T	17.5 dB/K	
Nominal EIRP	48.4 dBW	

### RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U from transceiver to tripod base

### Physical

Case 1: Tripod/Reflector	L: 85 cm (33.5") H: 29 cm (11.5")	W: 85 cm (33.5") 32 Kg
Case 2: Controller/AZ/EL	L: 44.5 cm (17.5") H: 38 cm (15.5")	W: 80 cm (31.5") 32 Kg

### Motors

Electrical Interface	24VDC	8 Amp (Max.)
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### 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

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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016

# FLY-981



## TECHNICAL SPECIFICATIONS

The iNetVu® FLY-981 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.



Field Upgradable to FLY-98G, FLY-98V or FLY-98H

### Features

- One-Piece, high surface accuracy, offset feed, steel reflector
- Heavy duty feed arm capable of supporting up to 5kg (10lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu® 7710 Controller
- Works seamlessly with the world's most popular commercially available Ku modems
- Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires Ku-band satellite within 2 minutes
- Captive hardware / Fasteners
- 10 minute assembly by one person, no tools required
- Compact packaging; 3 ruggedized cases
- Standard 2 year warranty

### Application Versatility

If you operate in Ku-band, the FLY-981 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 Ku 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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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016

# FLY-981

**Intellisystem**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	98 cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1^\circ$
Azimuth	$\pm 175^\circ$
Elevation	0 - $90^\circ$
Polarization	$\pm 90^\circ$
Elevation Deploy Speed	Variable, $3^\circ/\text{sec}$ typ.
Azimuth Deploy Speed	Variable $3^\circ/\text{sec}$ typ.
Peaking Speed	0.1 $^\circ/\text{sec}$

### Environmental

Wind loading	
Operational (no ballast)	50 km/h (30 mph)
Operational (with ballast)	72 km/h (45 mph)
Temperature	
Operational	-30 $^\circ$ to 60 $^\circ$ C (-22 $^\circ$ to 140 $^\circ$ F)
Survival	-40 $^\circ$ to 65 $^\circ$ C (-40 $^\circ$ to 149 $^\circ$ F)
Water Ingress Rating	IP-66

### Electrical

Rx & Tx Cables	2 RG6 cables -10 m (33 ft) each	
Control Cables	10 m (33 ft) Ext. Cable up to 60 m (200 ft) available	
Standard		
Optional		
Frequency (GHz)	<b>Receive</b> 10.70-12.75 <sup>(1)</sup>	<b>Transmit</b> 13.75-14.50
Feed Interface	WR-75	WR-75
Midband Gain ( $\pm 0.2$ dBi)	39.70@12.00 GHz	41.20@14.30 GHz
Antenna Noise Temp. (K)	10 $^\circ$ EL=53 / 20 $^\circ$ EL= 39 / 30 $^\circ$ EL= 32 Max.	
Sidelobe Envelope Co-Pol (dBi)		
1.8 $^\circ$ < $\theta$ < 20 $^\circ$	29 - 25 Log $\theta$	
20 $^\circ$ < $\theta$ < 26.3 $^\circ$	-3.5	
26.3 $^\circ$ < $\theta$ < 48 $^\circ$	32-25 Log $\theta$	
48 $^\circ$ < $\theta$ < 180 $^\circ$	-10 (typical)	
Cross-Polarization	> -30 dB in 1 dB Contour	
VSWR	1.5:1	1.3:1

Note: <sup>(1)</sup> LNB PLL Type required with stability better than  $\pm 25$  KHz

### RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U F Type to tripod base (N Type Optional)

### Physical

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

### Motors

Electrical Interface	24VDC	8 Amp (Max.)
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### Shipping Weights & Dimensions\*

Skid: 132 cm x 137 cm x 121.9 cm (52" x 54" x 48") 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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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016

# 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



### 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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# FLY-98G

**Intellisystem**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	98 cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1^\circ$
Azimuth	$\pm 175^\circ$
Elevation	0 - $90^\circ$
Polarization	$\pm 45^\circ$ , Circular Auto
Elevation Deploy Speed	Variable, $3^\circ/\text{sec}$ typ.
Azimuth Deploy Speed	Variable $3^\circ/\text{sec}$ typ.
Peaking Speed	$0.1^\circ/\text{sec}$

### Environmental

Wind loading	
Operational (no ballast)	50 km/h (30 mph)
Operational (with ballast)	72 km/h (45 mph)
Temperature	
Operational	$-30^\circ$ to $60^\circ$ C ( $-22^\circ$ to $140^\circ$ F)
Survival	$-40^\circ$ to $65^\circ$ C ( $-40^\circ$ to $149^\circ$ F)
Water Ingress Rating	IP-66

### Electrical

Rx & Tx Cables	2 RG6 cables -10 m (33 ft) each	
Control Cables		
Standard	10 m (33 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
	<b>Receive</b>	<b>Transmit</b>
Frequency ( GHz)	19.20 - 20.20	29.50 - 30.0
Feed Interface (Circular)	RG6	RG6
Midband Gain (+0.2 dBi)	43.50 @19.75 GHz	46.60 @29.75 GHz
Antenna Noise Temp. (K)	30° EL= 62 Max.	
Sidelobe Envelope Co-Pol (dBi)		
100 $\lambda$ / D < $\theta$ < $20^\circ$	29 - 25 Log $\theta$	
20° < $\theta$ < 26.3°	-3.5	
26.3° < $\theta$ < 48°	32-25 Log $\theta$	
48° < $\theta$ < 180°	-10 (typical)	
Cross-Polarization	> -24 dB	> -22 dB
VSWR	1.3:1	

### RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U F Type to tripod base

### Physical

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

### Motors

Electrical Interface	24VDC	8 Amp (Max.)
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### Shipping Weights & Dimensions\*

Skid: 132 cm x 137 cm x 121.9 cm (52" x 54" x 48") 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

May 2016



# 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 Exede<sup>SM</sup> Ka Service by ViaSat and on KA-SAT NEWSPOTTER NEWSGATHERING service by Eutelsat"**



### 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 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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May 2016

# FLY-98V



## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	98 cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1^\circ$
Azimuth	$\pm 175^\circ$
Elevation	0 - $90^\circ$
Polarization	Circular, Auto-switching
Elevation Deploy Speed	Variable, $3^\circ/\text{sec}$ typ.
Azimuth Deploy Speed	Variable $3^\circ/\text{sec}$ typ.
Peaking Speed	$0.1^\circ/\text{sec}$

### Environmental

Wind loading	
Operational (no ballast)	50 km/h (30 mph)
Operational (with ballast)	72 km/h (45 mph)
Temperature	
Operational	$-30^\circ$ to $60^\circ$ C ( $-22^\circ$ to $140^\circ$ F)
Survival	$-40^\circ$ to $65^\circ$ C ( $-40^\circ$ to $149^\circ$ F)
Water Ingress Rating	IP-66

### Electrical

Rx & Tx Cable	Single IFL, RG6 cable - 10 m (33 ft)	
Control Cables		
Standard	10 m (33 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
	<b>Receive</b>	<b>Transmit</b>
Frequency (GHz)	18.30 - 20.20	28.10 - 30.00
Feed Interface (Circular)	RG6	RG6
Midband Gain (+0.2 dBi)	43.50 @19.75 GHz	46.60 @29.75 GHz
Antenna Noise Temp. (K)	30° EL= 62 Max.	
Sidelobe Envelope Co-Pol (dBi)		
100 $\lambda$ / D < $\theta$ < $20^\circ$	29 - 25 Log $\theta$	
$20^\circ$ < $\theta$ < $26.3^\circ$	-3.5	
$26.3^\circ$ < $\theta$ < $48^\circ$	32-25 Log $\theta$	
$48^\circ$ < $\theta$ < $180^\circ$	-10 (typical)	
VSWR	1.3:1	

### RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U F Type to tripod base

### Physical

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

### Motors

Electrical Interface	24VDC	8 Amp (Max.)
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### Shipping Weights & Dimensions\*

Skid: 132 cm x 137 cm x 121.9 cm (52" x 54" x 48") 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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May 2016

# 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



### 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)<sup>(1)</sup> and Avanti (Europe)<sup>(1)</sup>
- 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.

<sup>(1)</sup> Uses JUPITER Radio

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# FLY-98H



**Intellisystem**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	98 cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1^\circ$
Azimuth	$\pm 175^\circ$
Elevation	0 - $90^\circ$
Polarization	$\pm 45^\circ$ , Circular Manual
Elevation Deploy Speed	Variable, $3^\circ/\text{sec}$ typ.
Azimuth Deploy Speed	Variable $3^\circ/\text{sec}$ typ.
Peaking Speed	$0.1^\circ/\text{sec}$

### Environmental

Wind loading	
Operational (no ballast)	50 km/h (30 mph)
Operational (with ballast)	72 km/h (45 mph)
Temperature	
Operational	$-30^\circ$ to $60^\circ$ C ( $-22^\circ$ to $140^\circ$ F)
Survival	$-40^\circ$ to $65^\circ$ C ( $-40^\circ$ to $149^\circ$ F)
Water Ingress Rating	IP-66

### Electrical

Rx & Tx Cables	2 RG6 cables -10 m (33 ft) each	
Control Cables		
Standard	10 m (33 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
	<b>Receive</b>	<b>Transmit</b>
Frequency ( GHz)	19.20 - 20.20	29.50 - 30.0
Feed Interface (Circular)	RG6	RG6
Midband Gain (+0.2 dBi)	43.50 @19.75 GHz	46.60 @29.75 GHz
Antenna Noise Temp. (K)	30° EL= 62 Max.	
Sidelobe Envelope Co-Pol (dBi)		
100 $\lambda$ / D < $\emptyset$ < $20^\circ$	29 - 25 Log $\emptyset$	
$20^\circ$ < $\emptyset$ < $26.3^\circ$	-3.5	
$26.3^\circ$ < $\emptyset$ < $48^\circ$	32-25 Log $\emptyset$	
$48^\circ$ < $\emptyset$ < $180^\circ$	-10 (typical)	
Cross-Polarization	> -24 dB	> -22 dB
VSWR	1.3:1	

### RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U F Type to tripod base

### Physical

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

### Motors

Electrical Interface	24VDC	8 Amp (Max.)
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### Shipping Weights & Dimensions\*

Skid: 132 cm x 137 cm x 121.9 cm (52" x 54" x 48")	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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May 2016

# ACFLY-1200



## TECHNICAL SPECIFICATIONS

The iNetVu® Airline Checkable Flyaway antenna system is a highly portable unit with a 6-piece carbon fibre reflector that can fit in a suitcase. It is configurable with the auto-pointing iNetVu® 7024C Controller, cables and another electronic device such as a modem or PowerSmart power supply that can be installed in the second case.



### Features

- 1.2m offset, prime focus, 6-piece carbon fibre reflector
- 3 Axis Motorization
- Two Case Solution, patent pending
- Supports manual control when required
- Airline checkable
- One button, auto-pointing controller acquires any Ku-band satellite within 2 minutes
- Designed to work with the iNetVu® 7024C Controller
- Captive hardware / fasteners
- No tools required for assembly / disassembly
- Set-up time less than 10 minutes, one person job
- Leveling capability for uneven surfaces
- Optimal high-precision antenna pointing
- Includes jog controller functions
- Remote access and operation via network, web and other interfaces
- Patented
- 1 Year Standard Warranty

### Application Versatility

The Airline Checkable Flyaway system is easily configured to provide instant access to satellite communications for any application that requires remote connectivity in a rugged environment. Ideally suited for applications that require a quick, simple set-up; vertical markets such as Disaster Management, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services will benefit tremendously from the ACFLY's ease of deployment.

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Specifications are subject to change

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# ACFLY-1200

**Intellisystem**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	1.2m Offset Feed, carbon fibre
Platform Geometry	Elevation over Azimuth
Offset Angle	15°
Antenna Optics	Single Offset
Azimuth	± 180°
Elevation	10° - 90°
Polarization	± 95°
Elevation Deploy Speed	Variable 2° /sec typ.
Azimuth Deploy Speed	Variable 5° /sec typ.
Peaking Speed	0.1 /sec

### Environmental

Wind loading	
Operational	
With Ballast / Anchors	50 km/h (31 mph)
Survival	145 km/h (90 mph)
Temperature	
Operational	-30° to 55° C (-22° to 131° F)
Solar Radiation	360 BTU/h/sq. ft.
Rain	1.3cm/h (0.51 in/h)

Vibration per MIL-STD-810F, Annex A, Category 4, Truck/trailer/tracked

Shock Test per IEC 60068-2-27

Bump Test per IEC 60068-2-29

Drop and Topple per IEC 60068-2-31

Free- Fall Drop per IEC 60068-2-32, and ISTA 1A

Dust and Water Ingress per IEC 60529, IP66

### Electrical

Rx & Tx Cables	2 RG6 Cables -10m (33 ft) each
Control Cables	
Standard	10m (33 ft) Ext. Cable
Optional	Up to 60m (200 ft) available

### RF Interface

Radio Mounting	Back of Reflector
Axis Transition	Rigid + Twist-flex Guide
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U F Type

### Motors

Electrical Interface	24VDC 5 Amp (Max.)
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### Cases

Case 1: 6-piece antenna platform	48.5 x 71 x 39 cm (19" x 28" x 15.3"), 32 kg (70 lbs)
Case 2: 3U Rack mount including iNetVu® 7024 Controller + feed + cables:	48.5 x 71 x 39 cm (19" x 28" x 15.3"), 32 kg (70 lbs)
Case 3 (Optional): 4U Rack mount	62.2 x 34.3 x 47.6 cm (24.5" x 13.5" x 18.8"), 10.7 kg (23.5 lbs)

### Ku-Band (Linear)

Transmit Power	1 to 200 watt	
Feed	2 Port XPol	
	<b>Receive</b>	<b>Transmit</b>
Frequency (GHz)	10.70 - 12.75 <sup>(1)</sup>	13.75 - 14.50
Feed Interface	WR75	WR75
Efficiency	70%	70%
Midband Gain (± .2 dBi)	41.50	43.00
Antenna Noise Temp. (K)	10° EL= 45 / 30° EL= 24	
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	-10 Typical	
Cross-Polarization on Axis	>35 dB	
Within 1dB Beamwidth	>30 dB	
Return Loss	17.7 dB typ.	20 dB typ.
Insertion Loss	0.3 dB typ.	0.1 dB typ.
Tx/Rx Isolation	40 dB	90 dB
VSWR	1.3:1	1.3:1

### Shipping Weights & Dimensions\*

Platform Case: 74 cm x 43 cm x 51 cm (29" x 17" x 20"), 34 kg (75 lbs)
Controller Case: 74 cm x 43 cm x 51 cm (29" x 17" x 20"), 34 kg (75 lbs)

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

Note: <sup>(1)</sup> LNB PLL Type required with stability better than ± 25 KHz[www.intellisystem.it](http://www.intellisystem.it)

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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016

# FLY-1201



## TECHNICAL SPECIFICATIONS

The iNetVu® 1.2m Flyaway Antenna System is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu® 7024C 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.



### Features

- One button auto-pointing controller
- 3 Axis motion (Ku-band), 2 axis (X-band)
- Airline transportable
- Supports manual control when required
- Designed to work with the iNetVu® 7024C Controller
- Captive hardware / fasteners
- 1.2m offset, prime focus, 2-piece thermoset molded reflector
- Supports Skyware 1.2m antenna, Type 125
- 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
- Eutelsat / Intelsat compliant
- Compact packaging, 4 ruggedized shipping cases
- Minimal maintenance required
- Standard 2 year warranty

### Application Versatility

If you operate in Ku-band, the FLY-1201 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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May 2016

# FLY-1201



**Intellisystem**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Antenna Size & Material	1.2m Glass fibre reinforced polyester
Platform Geometry	Elevation over azimuth
Antenna optics	2-piece segmented, Offset feed prime focus
Optional	1-piece & 4-piece segmented
Offset angle	16.97°
Azimuth	±175°
Elevation	5° to 90°
Polarization	±95°
Elevation deploy speed	Variable 6° / sec
Peaking speed	0.2° / sec

### Environmental

Wind loading	
Operational	
No ballast or anchors	48 km/h (30 mph)
With ballast or anchors	72 km/h (45 mph)
Survival (with ballast)	145 km/h (90 mph)
Solar radiation	360 BTU / h / sq. ft
Temperature	
Operational	-30° to 55° C (-22° to 131° F)
Survival	-40° to 65° C (-40° to 149° F)
Rain	
Operational	10 cm/h
Survival	15 cm/h

### RF Interface

Radio mounting	Feed arm
Coaxial	RG6U F type (N type optional)

### Electrical

Electrical interface	24VDC 8 Amp (Max.)
Rx & Tx cables	2 RG 6 cables - 10 m (33 ft) each
Control cables	
Standard	10m (33 ft) ext. cable
Optional	up to 60m (200 ft) available

### Notes:

<sup>(1)</sup> Depending on size and weight for feed arm mounting limitation

<sup>(2)</sup> LNB PLL Type required with stability better than ± 25 KHz

### Electrical (Continued)

	Ku-band (Linear)	X-band (Circular)
Transmit Power <sup>(1)</sup>	1 to 200 Watt	1 to 200 Watt
Receive Frequency (GHz)	10.95 – 12.75 <sup>(2)</sup>	7.25-7.75
Transmit Frequency (GHz)	13.75 – 14.50	7.90-8.40
Midband Gain(±0.2 dB)		
(Rx)	41.80	37.20
(Tx)	43.30	37.8
Antenna Noise Temp. (K)	10° EL=45	10° EL=79
	30° EL=24	20° EL=61
Sidelobe Envelope, Co-Pol (dBi)		
1.5° < Ø < 20°	29 - 25 Log Ø	Meets ITU 580
20° < Ø < 26.3°	- 3.5	
26.3° < Ø < 48°	32 - 25 Log Ø	
48° < Ø < 180°	- 10 (averaged)	
Cross-Polarization on Axis	>35 dB	>21.3 dB
Within 1 dB beamwidth	>30 dB	>21.3 dB
Tx/Rx isolation	Rx: 40 dB Tx: 90 dB	Rx: 0 dB Tx: 110 dB
Feed	2 port Xpol	2 port Xpol
VSWR	1.3:1	1.3:1

### Cases

Case 1: 2-piece reflector	130 x 29.5 x 75 cm (51.2" x 11.6" x 29.5") 33.5 kg (73.7 lbs)
Case 2: Ku Feed arm	120.6 x 55.2 x 24.7 cm (47.5" x 21.7" x 9.7") 20.5 kg (45.1 lbs)
Case 2: X Feed arm (Optional)	TBD
Case 3: Tripod	95 x 69 x 37 cm (37.4" x 27.2" x 14.5") 42 kg (92.4 lbs)
Case 4: 6U rack mount	74 x 51 x 72 cm (29" x 20" x 28") 32 kg (70 lbs)

### Shipping Weights & Dimensions\*

#### Transportable Case and Reflector:

Tripod Case:	97 cm x 71 cm x 38 cm (38" x 28" x 15"), 45 kg (100 lbs)
Feed Arm Case:	121 cm x 56 cm x 25 cm (47" x 22" x 10"), 20.5 kg (45 lbs)
Reflector Case:	132 cm x 31 cm x 76 cm (52" x 12" x 30"), 34 kg (74 lbs)
Controller Case:	71 cm x 51 cm x 74 cm (28" x 20" x 29"), 36 kg (80 lbs)

#### Total including pallet:

140 cm x 140 cm x 104 cm (55" x 55" x 41"), 160 kg (353 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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May 2016

# FLY-1202



## TECHNICAL SPECIFICATIONS

The iNetVu® 1.2m Flyaway Antenna System is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu® 7024C 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.



### Features

- One button auto-pointing controller
- 3 Axis motion (Ku-band), 2 axis (X-band)
- Airline transportable
- Supports manual control when required
- Designed to work with the iNetVu® 7024C Controller
- Captive hardware / fasteners
- 1.2m offset, prime focus, 2-piece thermoset molded reflector
- Supports General Dynamics Series 3122 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
- Eutelsat / Intelsat compliant
- Compact packaging, 4 ruggedized shipping cases
- Minimal maintenance required
- Standard 2 year warranty

### Application Versatility

If you operate in Ku-band, the FLY-1202 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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# FLY-1202



**Intellisystem**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Antenna Size & Material	1.2m Glass fibre reinforced polyester
Platform Geometry	Elevation over azimuth
Antenna optics	2-piece segmented, Offset feed prime focus
Optional	1-piece & 4-piece segmented
Offset angle	16.97°
Azimuth	±175°
Elevation	5° to 90°
Polarization	±95°
Elevation deploy speed	Variable 6° / sec
Peaking speed	0.2° / sec

### Environmental

Wind loading	
Operational	
No ballast or anchors	48 km/h (30 mph)
With ballast or anchors	72 km/h (45 mph)
Survival (with ballast)	145 km/h (90 mph)
Solar radiation	360 BTU / h / sq. ft
Temperature	
Operational	-30° to 55° C (-22° to 131° F)
Survival	-40° to 65° C (-40° to 149° F)
Rain	
Operational	10 cm/h
Survival	15 cm/h

### RF Interface

Radio mounting	Feed arm
Coaxial	RG6U F type (N type optional)

### Electrical

Electrical interface	24VDC 8 Amp (Max.)
Rx & Tx cables	2 RG 6 cables - 10 m (33 ft) each
Control cables	
Standard	10m (33 ft) ext. cable
Optional	up to 60m (200 ft) available

### Notes:

<sup>(1)</sup> Depending on size and weight for feed arm mounting limitation

<sup>(2)</sup> LNB PLL Type required with stability better than ± 25 KHz

### Electrical (Continued)

	Ku-band (Linear)	X-band (Circular)
Transmit Power <sup>(1)</sup>	1 to 200 Watt	1 to 200 Watt
Receive Frequency (GHz)	10.95 – 12.75 <sup>(2)</sup>	7.25-7.75
Transmit Frequency (GHz)	13.75 – 14.50	7.90-8.40
Midband Gain(±0.2 dB)		
(Rx)	41.80	37.20
(Tx)	43.30	37.8
Antenna Noise Temp. (K)	10° EL=45	10° EL=79
	30° EL=24	20° EL=61
Sidelobe Envelope, Co-Pol (dBi)		
1.5° < Ø < 20°	29 - 25 Log Ø	Meets ITU 580
20° < Ø < 26.3°	- 3.5	
26.3° < Ø < 48°	32 - 25 Log Ø	
48° < Ø < 180°	- 10 (averaged)	
Cross-Polarization on Axis	>35 dB	>21.3 dB
Within 1 dB beamwidth	>30 dB	>21.3 dB
Tx/Rx isolation	Rx: 40 dB Tx: 90 dB	Rx: 0 dB Tx: 110 dB
Feed	2 port Xpol	2 port Xpol
VSWR	1.3:1	1.3:1

### 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"); 35.4kg (77.5lbs)
Case 4: 6U Rack Mount	74 x 51 x 72 cm (29" x 20" x 28"); 32 kg (70 lbs)

### Shipping Weights & Dimensions\*

TBD

\*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



### 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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# FLY-1202V



## TECHNICAL SPECIFICATIONS

### Mechanical

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

### Environmental

Wind loading	
Operational	
No ballast or anchors	48 km/h (30 mph)
With ballast or anchors	72 km/h (45 mph)
Temperature	
Operational	-30° to 60° C (-22° to 140° F)
Survival	-40° to 65° C (-40° to 149° F)
Rain	
Operational	10 cm/h
Survival	15 cm/h
Solar radiation	360 BTU / h / sq. ft

### RF Interface

Radio mounting	Feed arm
Coaxial	RG6U F type

### Electrical

Electrical interface	24VDC 8 Amp (Max.)
Rx & Tx cables	Single IFL, RG6 cable - 10 m (33 ft)
Control cables	
Standard	10m (33 ft) ext. cable
Optional	up to 60m (200 ft) available

### Ka-Band

	Receive	Transmit
Frequency (GHz)	19.70 - 20.20	29.50 - 30.00
Midband Gain (±.2dB)	46.5	49.9
EIRP (Nominal)	54 dBW @ 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 Polarization		
Any angle of axis	-25 dB in 1 dB contour	
Feed Interface	Type F	
VSWR	1.3:1 (Max.)	

### 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"); 33.4kg (73.3 lbs)
Case 4: 6U Rack Mount	74 x 51 x 72 cm (29" x 20" x 28"); 32 kg (70 lbs)

### Shipping Weights & Dimensions

TBD

**Note:**<sup>(1)</sup> Antenna based on General Dynamic[www.intellisystem.it](http://www.intellisystem.it)

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# 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



### 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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# FLY-1202G

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TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

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

### Environmental

Wind loading	
Operational	
No ballast or anchors	48 km/h (30 mph)
With ballast or anchors	72 km/h (45 mph)
Temperature	
Operational	-30° to 60° C (-22° to 140° F)
Survival	-40° to 65° C (-40° to 149° F)
Rain	
Operational	10 cm/h
Survival	15 cm/h
Solar radiation	360 BTU / h / sq. ft

### RF Interface

Radio mounting	Feed arm
Feed	RG6 F type

### Electrical

Electrical interface	24VDC 8 Amp (Max.)
Rx & Tx cables	2 RG6 cables
Control cables	
Standard	10m (33 ft) ext. cable
Optional	up to 60m (200 ft) available

### Ka-Band

	Receive	Transmit
Frequency (GHz)	19.20 - 20.20	29.50 - 30.00
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.)	

### Ka-Band (R/O Circular)

	Receive
Frequency (GHz)	17.0 - 22.2
Feed Interface	WR42

### 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)

### Shipping Weights & Dimensions

TBD

**Note:**<sup>(1)</sup> Antenna based on General Dynamic/Skyware Global[www.intellisystem.it](http://www.intellisystem.it)

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# FLY-1801



**Intellisystem**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

The iNetVu® FLY-1801 Antenna is a 1.8m highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu® 7710 Controller and can be assembled in less than 20 minutes by one person. The antenna features a 6-piece carbon fibre reflector with compact pedestal and is designed to be cost-effective while providing exceptional performance in a light weight package.



### Features

- 6-Piece Carbon Fibre Reflector
- One button, auto-pointing Controller acquires any Ku or C band satellite within 2 minutes
- 3 Axis motorization
- Supports manual control
- Captive Hardware/Fasteners
- No tools required for assembly
- Set-up time less than 20 minutes, one person
- Designed to work with the iNetVu® 7710 Controller
- Leveling capability for uneven surfaces
- Standard 2 year warranty



### Application Versatility

Whether you operate in Ku or C band, the 1.8m 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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# FLY-1801



## TECHNICAL SPECIFICATIONS

### Mechanical

Reflector	1.8m offset feed, Carbon Fibre
Platform Geometry	Elevation over Azimuth
Deployment Sensors GPS Antenna	Compass $\pm 2^\circ$ , Tilt Sensor $\pm 0.2^\circ$
F/D Ratio	0.80
Azimuth	Full 360° in overlapping, 190° sectors
Elevation	0° to 90°
Polarization	$\pm 95^\circ$
Elevation Deploy Speed	Variable 5° /sec, 2° /sec typ.
Azimuth Deploy Speed	Variable 8° /sec, 2° /sec typ.
Peaking Speed	0.2° /sec
Peaking Accuracy	$\pm 0.1^\circ$
Motor Voltage	24VDC 14.5 Amp (Max.)

### Environmental

Wind loading	
Operational (no ballast)	40 km/h (25 mph)
Operational (with ballast)	72 km/h (45 mph)
Temperature	
Operational	-30° to 60° C (-22° to 140° F)
Survival	-40° to 65° C (-40° to 149° F)
Water Ingress Rating	IP-66

### Electrical

Rx & Tx Cables	2 RG6 Cables
Control Cables	
Standard	10 m (33 ft) Extension Cable
Optional	Up to 60 m (200 ft) available

### RF Interface

Radio Mounting	Feed arm
Coaxial	RG6U
Axis Transition	Rigid/Twist-Flex Waveguide
Electrical Interface	10 m (33 ft) ext. cables w/MIL connectors
VSWR	Rx 1.30:1      Tx 1.30:1

### Physical

Total Weight (w Ku Option & Cases)	206 kg (453 lbs)
Packaging Cases:	
Case 1: AZ Assembly:	56.9cm x 68.6cm x 71.1cm (22" x 27" x 28"); 43.6kg (96lbs)
Case 2: Tripod Assembly:	35.6cm x 35.6cm x 162.6cm (14" x 14" x 64"); 32kg (70.5lbs)
Case 3: EL Assembly:	66cm x 45.7cm x 139.7cm (26" x 18" x 55"); 35.2kg (77.5lbs)
Case 4: Feedboom Assembly:	114.3cm x 45.7cm x 30.5cm (45" x 18" x 12"); 21.4kg (47lbs)
Case 5: Reflector Case A:	30.5cm x 76.2cm x 106.7cm (12" x 30" x 42"); 18.8kg (41.5lbs)
Case 6: Reflector Case B:	33cm x 76.2cm x 116.8cm (13" x 30" x 46"); 23.4kg (51.5lbs)
Optional Feeds: Choose 1 or more	
Case 7: Ku-Linear POL + EL Actuator:	86.4cm x 66cm x 35.6cm (34" x 26" x 14"); 31.6kg (70lbs)
Case 8: C-linear POL:	81.3cm x 50.8cm x 50.8cm (32" x 20" x 20"); 25.4kg (56lbs)
Case 9: C-Circular POL:	109.2cm x 50.8cm x 50.8cm (43" x 20" x 20"); 29.6kg (65.5lbs)

### Ku-Band (Linear Orthogonal)

	Receive	Transmit
Transmit Power <sup>(1)</sup>	1 to 200 watt	
Frequency (GHz)	10.95-12.75 <sup>(2)</sup>	13.75-14.50
Feed Interface	WR75	WR75
Efficiency	70%	70%
Midband Gain ( $\pm 0.2$ dBi)	45.30	46.50
Antenna Noise Temp. (K)	10° EL= 60 / 20° EL= 53	
Sidelobe Envelope,	1°< $\theta$ <20°	29-25 Log $\theta$
Co-Pol (dBi)	20°< $\theta$ <26.3°	-3.5
	26.3°< $\theta$ <48°	32-25 Log $\theta$
	48°< $\theta$ <180°	-10 (Average)
Cross-Polarization on Axis	-35 dB	-35 dB
Within 1dB Beamwidth	-28 dB	-28 dB
Isolation (Port to Port)	30 dB	85 dB

### C-Band (Linear)

	Receive	Transmit
Standard Frequency (GHz)	3.40-4.20	5.850-6.725
Feed Interface	WR229	WR137 or Type N
Midband Gain ( $\pm 0.3$ dBi)	35.40	39.30
Antenna Noise Temp. (K)	10° EL= 43 / 20° EL= 38	
Sidelobe Envelope,	2.5°< $\theta$ <20°	29-25 Log $\theta$
Co-Pol (dBi)	20°< $\theta$ <26.3°	-3.5
	26.3°< $\theta$ <48°	32-25 Log $\theta$
	48°< $\theta$ <180°	10 (Average)
Cross-Pol: on Axis	-30 dB	-30 dB
Within 1dB Beamwidth	-26 dB	-26 dB
Isolation (Port to Port)	30 dB	70 dB

### C-Band (Circular)

	Receive	Transmit
Standard Frequency (GHz)	3.625-4.20	5.85-6.425
Feed Interface	WR229	Type N
Midband Gain ( $\pm 0.4$ dBi)	35.4	39.50
Antenna Noise Temp. (K)	10° EL= 55 / 20° EL= 50	
Sidelobe Envelope,	2.8°< $\theta$ <20°	29-25 Log $\theta$
Co-Pol (dBi)	20°< $\theta$ <26.3°	-3.5
	26.3°< $\theta$ <48°	32-25 Log $\theta$
	48°< $\theta$ <180°	-10 (Average)
Isolation (Port to Port)	30 dB	70 dB

### Shipping Weights & Dimensions

TBD

### Notes:

<sup>(1)</sup> Depending on size and weight of feed arm mounting limitation

<sup>(2)</sup> LNB PLL Type required with stability better than  $\pm 25$  KHz

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## INTEGRATED SATELLITE SOLUTIONS

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# FMA's FIXED MOTORIZED ANTENNAS



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**FMA's**



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TECHNICAL SPECIFICATIONS

**FMA-120**



**FMA-120Ka**



**FMA-180**



**FMA-240**



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# FMA-120



## TECHNICAL SPECIFICATIONS

The iNetVu® 120 Fixed Motorised 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
- Designed to work with the iNetVu® 7024C controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 3 Axis motorization
- Supports manual control when required
- It is a cost effective solution for multi-satellite communication at any location
- One button, auto-pointing controller acquires any
- Ku-band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Eliminates costly repointing and network downtime due to adverse weather conditions or 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 Prodelin 1.2m antenna, Model 1132 / 1134
- System designed for relatively large BUCs, 9 kg (Max.) weight for RF electronics (BUC and LNB)
- 1 year warranty



### Application Versatility

The FMA-120 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.

[www.intellisystem.it](http://www.intellisystem.it)

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## INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change

May 2016

# FMA-120


**Intellisystem**  
 TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

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

### Environmental

Wind Loading	
Operational	72 km/h (45mph)
Survival	200 km/h (125mph)
Temperature	
Operational	-30°C to 55°C (-22°F to 130°F)
Survival	-40°C to 65°C (-40°F to 150°F)

### Electrical

Elevation Motor	24VDC
Azimuth Motor	24VDC
Rx & Tx Cables	2 RG6 Cables -15m (50 ft) each
Control Cables	
Standard	15m (50 ft) Ext. Cable
Optional	Up to 60m (200 ft) available

### Ku-Band

	Receive	Transmit
Frequency (GHz)	10.95 - 12.75 <sup>(1)</sup>	13.75 - 14.50
Midband Gain (± .2dB)	41.50	43.00
Antenna Noise Temp. (K)	20° EL= 46 / 30° EL= 24	
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	-30 dB in 1dB contour	
Any angle of axis	-25 dB (Max.)	
Feed Interface	Type F or N	WR 75 Isolation
(Port-to-Port)	35 dB	80 dB
VSWR	1.3:1 (Max.)	

### 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

**Note:** <sup>(1)</sup> LNB PLL Type required with stability better than ± 25 KHz

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May 2016



# 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
- 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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## INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change

May 2016

# FMA-120Ka



## TECHNICAL SPECIFICATIONS

### Mechanical

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

### Environmental

Wind Loading	
Operational	72 km/h (45mph)
Survival	200 km/h (125mph)
Temperature	
Operational	-30°C to 55°C (-22°F to 130°F)
Survival	-40°C to 65°C (-40°F to 150°F)

### Electrical

Elevation Motor	24VDC
Azimuth Motor	24VDC
Rx & Tx Cables	2 RG6 Cables -15m (50 ft) each
Control Cables	
Standard	15m (50 ft) Ext. Cable
Optional	Up to 60m (200 ft) available

### Ka-Band

	Receive	Transmit
Frequency (GHz)	19.70 - 20.20	29.50 - 30.00
Midband Gain (±.2dB)	46.5	49.9
EIRP (Nominal)	54 dBW @ 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.)	

### 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

# FMA-180



## TECHNICAL SPECIFICATIONS

The iNetVu® 180 Fixed Motorised Antenna system is a self-pointing auto-acquire unit that can be mounted as a permanent installation. Works seamlessly with the auto-pointing iNetVu® 7024 Controller.



### Features

- 1.8m Offset, prime focus, glass fibre SMC reflector
- Designed to work with the iNetVu® 7024 Controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 2 Axis motorization, 3rd Axis (Polarization) optional
- Supports manual control when required
- It is a cost effective solution for multi-satellite communication at any location
- One button, auto-pointing controller acquires any Ku or C band satellite 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 specialised equipment
- Any compatible fixed installation can be easily converted and upgraded to a fully motorised system
- Supports Prodelin 1.8m antenna, Model 1184
- System designed for 4W and higher BUCs. 10 kg (Max.) weight for RF electronics (BUC and LNB)
- 1Year Warranty

### Application Versatility

The FMA-180 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 and Emergency Services.

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Specifications are subject to change

May 2016

# FMA-180



## TECHNICAL SPECIFICATIONS

### Mechanical

Antenna size	1.8m (71")
Reflector Material	Glass reinforced polyester SMC
Platform Type	3 axis Motorized, Galvanized steel
Antenna optics	Prime Focus, offset feed
Mast size	3.5 SCH 40 pipe (4.00" OD)
Elevation range	80° (10° to 90° adjustable)
Azimuth Range	100° - (360° Manual adjustable)
Polarization Range	± 90°

### Environmental

Wind loading	
Operational	80 km/h (50mph)
Survival	201 km/h (125mph)
Temperature	
Operational	-30°C to 55°C (-22°F to 130°F)
Survival	-40°C to 65°C (-40°F to 150°F)

### Electrical

Elevation Actuator	24V
Azimuth Actuator	24V
Rx & Tx Cables	2 RG6 Cables -15m (50 ft) each
Control Cables	
Standard	15m (50 ft) Ext. Cable
Optional	Up to 100m (330 ft) available

### Ku-Band

	Receive	Transmit
Operating Frequency (GHz)	10.95 - 12.75 <sup>(1)</sup>	13.75 - 14.50
Midband Gain (± .2dB)	45.00	46.50
Antenna Noise Temp. (K)	10° EL= 44 / 40° EL= 33	
Sidelobe Envelope Co-Pol (dBi)		
Mainbeam <Θ<7°	29-25 LogΘ	
7° <Θ< 9.2°	+8	
9.2° <Θ <48°	32-25 LogΘ	
48° <Θ <180°	-10 Ave.	
Cross Polarization	> -30 dB on axis	
Feed Interface	WR 75	WR 75
VSWR	1.3:1 (Max.)	

**Note:** <sup>(1)</sup> LNB PLL Type required with stability better than ± 25 KHz

### C-Band (Linear)

	Receive	Transmit
Operating Frequency (GHz)	3.625 - 4.20 <sup>(1)</sup>	5.85 - 6.425
Midband Gain (± .2dB)	35.50	39.50
Antenna Noise temp.(K)	10° EL= 56 / 40° EL=46	
Sidelobe Envelope Co-Pol (dBi)		
Mainbeam <Θ<7°	29-25 LogΘ	
7° <Θ< 9.2°	+8	
9.2° <Θ <48°	32-25 LogΘ	
48° <Θ <180°	-10 Ave.	
Cross Polarization	> -30 dB on axis	
Feed Interface	CPR 229 F	CPR 137 or type N
VSWR	1.3:1 (Max.)	

### C-Band (Circular)

	Receive	Transmit
Operating Frequency (GHz)	3.625 - 4.20 <sup>(1)</sup>	5.85 - 6.425
Midband Gain (± .2dB)	35.50	39.90
Antenna Noise Temp. (K)	10° EL=30 / 40° EL=20	
Sidelobe Envelope Co-Pol (dBi)		
Mainbeam <Θ<7°	29-25 LogΘ	
7° <Θ< 9.2°	+8	
9.2° <Θ <48°	32-25 LogΘ	
48° <Θ <180°	-10 Ave.	
Feed Interface	CPR 229 F	CPR 137 or type N
VSWR	1.3:1 (Max.)	

### Shipping Weights & Dimensions\*

Pallet 1: FMA 1.8m Ku or C band System with 3rd axis motorization on skid  
157.5 cm x 106.7 cm x 61 cm (62"x42"x24"); 95.3 Kg (210 lbs);  
Pallet 2: FMA 1.8m Reflector on skid  
208.3 cm x 208.3 cm x 35.6 cm (82"x82"x14"); 80.3 Kg (177 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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May 2016

# FMA-240



## TECHNICAL SPECIFICATIONS

The iNetVu® 240 Fixed Motorised Antenna system is a 2.4m self-pointing auto-acquire unit that can be mounted as a permanent installation. Works seamlessly with the auto-pointing iNetVu® 7024 Controller.



### Features

- 2.4m Offset, 4-piece Prime Focus, Glass Fibre SMC reflector
- Designed to work with the iNetVu® 7024 Controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 2 Axis motorization, 3rd Axis (Polarization) optional
- Supports manual control when required
- It is a cost effective solution for multi-satellite communication at any location
- One button, auto-pointing controller acquires any Ku or C band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Eliminates costly re-pointing 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 specialised equipment
- Any compatible fixed installation can be easily converted and upgraded to a fully motorised system
- Supports Prodelin 2.4m antenna, Model 1244
- System designed for light weight BUCs up to 10 kg (Max.) weight for RF electronics (BUC and LNB)
- 1Year Warranty

### Application Versatility

The FMA-240 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 and Emergency Services.

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May 2016



# FMA-240



**Intellisystem**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS

### Mechanical

Antenna size	2.4m (8 ft)
Reflector Material	Glass reinforced polyester SMC
Platform Type	3 axis Motorized, Galvanized steel
Antenna optics	4-Piece Prime Focus, Offset Feed
Mast size	6" SCH 40 pipe (6.62" OD)
Elevation range	48° (5° to 85° adjustable) <sup>(1)</sup>
Azimuth Range	100° - (360° Manual adjustable)
Polarization Range	± 90°

### Environmental

Wind loading	
Operational	80 km/h (50mph)
Survival	201 km/h (125mph)
Temperature	
Operational	-30°C to 55°C (-22°F to 130°F)
Survival	-40°C to 65°C (-40°F to 150°F)

### Electrical

Elevation Actuator	24V
Azimuth Actuator	24V
Rx & Tx Cables	2 RG6 Cables -15m (50 ft) each
Control Cables	
Standard	15m (50 ft) Ext. Cable
Optional	Up to 60m (200 ft) available

### Ku-Band

	Receive	Transmit
Operating Frequency (GHz)	10.70 - 12.75 <sup>(2)</sup>	13.75 - 14.50
Midband Gain (± .2dB)	47.40	49.20
Antenna Noise Temp. (K)	5° EL=56; 10° EL=51; 20° EL=48; 40° EL=41	
Sidelobe Envelope Co-Pol (dBi)		
100λ / D < θ ≤ 20°	29 - 25 Logθ	
20° < θ ≤ 26.3°	-3.5	
26.3° < θ ≤ 48°	32 - 25 Logθ	
θ > 48°	-10 (averaged)	
Cross Polarization		
On Axis (dB)	> 30	> 35
Within 1.0 dB Beamwidth	> 25	> 26
Feed Interface	Type F or N	WR 75
VSWR	1.5:1 (Max.)	1.3:1 (Max.)

#### Note:

(1) 0° to 90° option available - contact C-COM

(2) LNB PLL Type required with stability better than ± 25 KHz

### C-Band (Linear)

	Receive	Transmit
Operating Frequency (GHz)	3.625 - 4.20 <sup>(2)</sup>	5.85 - 6.425
Midband Gain (± .2dB)	38.20	42.20
Antenna Noise Temp. (K)	5° EL=55; 10° EL=47; 20° EL=43; 40° EL=43	
Sidelobe Envelope Co-Pol (dBi)		
100λ / D < θ ≤ 20°	29 - 25 Logθ	
20° < θ ≤ 26.3°	-3.5	
26.3° < θ ≤ 48°	32 - 25 Logθ	
θ > 48°	-10 (averaged)	
Cross Polarization		
On Axis (dB)	> 30	> 30
Within 1.0 dB Beamwidth	> 27	> 27
Feed Interface	CPR 229	CPR 137 or Type N
VSWR	1.3:1 (Max.)	

### C-Band (Circular)

	Receive	Transmit
Operating Frequency (GHz)	3.625 - 4.20 <sup>(2)</sup>	5.85 - 6.425
Midband Gain (± .2dB)	38.00	42.00
Antenna Noise Temp. (K)	5° EL=61; 10° EL=53; 20° EL=49; 40° EL=49	
Sidelobe Envelope Co-Pol (dBi)		
100λ / D < θ ≤ 20°	29 - 25 Logθ	
20° < θ ≤ 26.3°	-3.5	
26.3° < θ ≤ 48°	32 - 25 Logθ	
θ > 48°	-10 (averaged)	
Cross Polarization		
On Axis (dB)	> 15	> 17.7
Within 1.0 dB Beamwidth	> 15	> 17.7
Feed Interface	CPR 229	CPR 137 or Type N
VSWR	1.3:1 (Max.)	

### Shipping Weights & Dimensions\*

Box 1: 274.3 cm x 45.7 cm x 127 cm (108" x 18" x 50") 96.6 kg (213 lbs)  
 Box 2: 71.1 cm x 33 cm x 58.4 cm (28" x 13" x 23") 53 kg (117 lbs)  
 Box 3: 236.2 cm x 33 cm x 45.7 cm (93" x 13" x 18") 97 kg (214 lbs)  
 Box 4: 233.7 cm x 27.9 cm x 25.4 cm (92" x 11" x 10") 15.4 kg (34 lbs)  
 Box 5: 30.5 cm x 30.5 cm x 66 cm (12" x 12" x 26") 8.2 kg (18 lbs)  
 Packed on a skid measuring 274.3 cm x 91.4 cm (108" x 36")  
 Total weight with skid: 317.5 kg (700 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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**INTEGRATED SATELLITE SOLUTIONS**

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May 2016



# CONTROLLERS & ACCESSORIES



# Controllers & Accessories



## TECHNICAL SPECIFICATIONS

**7000/24 Controller**



**7710 Controller**



**7711 Controller**



**Beacon Receiver**



**PowerSmart**



**3000 Controller**



**Cables**



**Transportable Skid**



**Encosed Skid**



**Transportable Cases**



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# 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.

#### 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

#### Gilat

Skyedge II/IP  
Skyedge II/Pro/Access  
Skyedge IIc (Standalone)

#### iDirect

INFINITI 3000/5000/7000 Series  
Evolution X5/X7

#### Comtech/ Radyne

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)

#### 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

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



### 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	SMA Connector
RF Rx In / Rx Out	Type F Connector
Sensor Input	DB26 Connector
Motor Control	9-Pin Circular AMP Connector
Network Interface	RJ45 Connector
USB 2.0 (Full Speed)	USB Type B Receptacle
Serial Port	DB9 Female Connector

### Electrical

Model	7000C	7024C
Universal AC Input	100- 240VAC, 2.2 - 1.1A 50/60 Hz	100- 240VAC, 2.2 - 1.1A 50/60 Hz
DC Input	12VDC @ 15A (Max.)	24VDC @ 8A (Max.)
Elevation Power	12VDC @ 15A (Max.)	24VDC @ 8A (Max.)
Azimuth Power	12VDC @ 10A (Max.)	24VDC @ 6A (Max.)
Polarization Power	12VDC @ 3A (Max.)	24VDC @ 2A (Max.)
Idle Power Consumption	12VDC @ 1A	24VDC @ 0.5A
LNB Power	Disable, 13V, 18V, 19V, 20V, 21V @ 500 mA (Max.)	

### Physical

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

### Environmental

Operating Temperature	-20°C to +50°C (-4°F - 122°F)
Storage Temperature	-40°C to +60°C (-40°F - 140°F)

### Shipping dimensions

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

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May 2016

# 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

[www.intellisystem.it](http://www.intellisystem.it)

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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016



# 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
- 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 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

#### Comtech/ Radyne\*

CDM-600L/570L/625/840  
DMD 20/DMD 20 LBST  
SkyWire MDX420

#### Viasat

Surfbeam II/PRO  
Tooway/PRO

#### Gilat

Skyedge II/IP  
Skyedge II/Pro/Access  
Skyedge IIc (Standalone)

#### Ipstar\*

IPX-5100/9200  
IPX-3200

#### iDirect

Evolution X5/X7

#### Newtec

MDM-3100 (standalone)

#### Romantis/Eastar\*

UHP-1000

#### STM\*

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

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	Type F Connector
RF Rx Out	Type F Connector
7720 Port	Circular Metal Connector
Network Interface	RJ45 Connector
USB 2.0 (Full Speed)	USB Type B Receptacle
Serial Port	DB9 Female Connector
DC In	Circular Amp Connector
GPS	SMA Connector

### Electrical

LNB Power	Disable, 13V, 14V, 18V, 19V, 20V, 21V @ 500 mA (Max.)
Universal AC Input	100 - 240VAC, 4.0 - 2.0A, 50/60 Hz
DC Input	24VDC @ 15A (Max.)
Idle Power Consumption	24VDC @ 1A

### Physical

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

### Environmental

Operating Temperature	-20°C to +50°C (-4°F - 122°F)
Storage Temperature	-40°C to +60°C (-40°F - 140°F)

### Certification

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

### Shipping dimensions

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

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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016

# 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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**INTEGRATED SATELLITE SOLUTIONS**

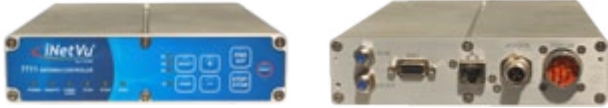
Specifications are subject to change

May 2016

# 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® 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

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

#### Comtech/ Radyne\*

CDM-600L/570L/625/840  
DMD 20/DMD 20 LBST  
SkyWire MDX420

#### Viasat

Surfbeam II/PRO  
Tooway/PRO

#### Gilat

Skyedge II/IP  
Skyedge II/Pro/Access  
Skyedge IIc (Standalone)

#### Ipstar\*

IPX-5100/9200  
IPX-3200

#### iDirect

Evolution X5/X7

#### Newtec

MDM-3100 (standalone)

#### Romantis/Eastar\*

UHP-1000

#### STM\*

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 <sup>(1)</sup>

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	Type F Connector
RF Rx Out	Type F Connector
7720 M&C Port	Circular Metal Connector - Mil Spec
Network Interface	RJ45 Connector
Serial Port	DB9 Female Connector
DC In	Circular Amp Connector

### Electrical

LNB Power	Disable, 13V, 14V, 18V, 19V, 20V, 21V @ 500 mA (Max.)
Universal AC Input <sup>(2)</sup>	100 - 240VAC, 4.0 - 2.0A, 50/60 Hz
DC Input	24VDC @ 15A (Max.)
Idle Power Consumption	24VDC @ 1A

### Physical

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

### Environmental

Operating Temperature	-20°C to +50°C (-4°F - 122°F)
Storage Temperature	-40°C to +60°C (-40°F - 140°F)
IP Protection	IP67

### Certification

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

### Shipping dimensions

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

Note:

<sup>(1)</sup> Not weatherproof - Indoor use

<sup>(2)</sup> External 320W Power Supply AC/DC

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## INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change (Draft)

May 2016

# 7711 Controller



**Intellisystem**  
TECHNOLOGIES

## TECHNICAL SPECIFICATIONS



Controller with External Power Supply

### 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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**INTEGRATED SATELLITE SOLUTIONS**

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May 2016

# 3000 Controller



## TECHNICAL SPECIFICATIONS



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
- Standard 2 year warranty

Note: <sup>(1)</sup> Required for new iNetVu® 24V based models

<sup>(2)</sup> Required for new iNetVu® 24V based models equipped with 7720  
Works with combined PWR/CAN external cable

<sup>(3)</sup> Cables length up to 50ft available

### Electrical

Power Input	
3000C-12	12VDC @ 15 Amp (Max.)
3000C-24 <sup>(1)</sup>	24VDC @ 8 Amp (Max.)
3000C-24-CAN <sup>(2)</sup>	24VDC @ 8 Amp (Max.)
Motor <sup>(3)</sup>	9 pin; 4.5m (15 ft) cable (optional)
Sensor <sup>(3)</sup>	DB-26; 4.5m (15 ft) sensor cable (optional)

### Environmental

Operating temperature	-20° to +60° C (-4° to +140° F)
Storage temperature	-40° to +70° C (-40° to +158° F)
Standard	RoHS compliant

### Mechanical

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

### Shipping Dimensions

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

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## INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change

May 2016



# 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	930 MHz - 2300 MHz
Pre-detection Bandwidth	50 kHz
Input Level	- 90 dBm (Min.), -30 dBm (Max.)
Frequency Tuning	10 kHz steps
Frequency Adjust	Front panel or remotely
AFC	± 23 kHz
Threshold	45 dB-Hz, for acquisition
Input Impedance	75 Ohm (Optional 50 Ohm) <sup>(1)</sup>
Input Connector	Type F, Female
Output Impedance	100 Ohm, Single ended
Output Connector	Terminal Plug & BNC Female
Tracking Gradient	0.5 V/dB
Tracking Response	0 to +10 VDC
System Level Range	60 dB
System Level Adjust	0 to 60 dB, 0.5 dB Steps
Frequency Stability	<1 ppm, 0° to +50° C (32° to 122° F)
Frequency Reference	10 MHz (Internal)
Phase Noise	>75 dB-Hz, 1 kHz from Carrier
Alarms	Unit Lock
Alarm Relay	Form-C
External LNB Power	+18VDC, Switched, In/Out, 500ma, (Max.)
Front Panel Display	Vacuum Fluorescent
M & C	RS-232 or RS-422/485 switched on rear panel
M & C Connector	DB-9, Female

### Environmental

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

### Physical

Size	4.5 cm (1.75") H; 41 cm (16") D 48 cm (19") W
Weight	3.63 kg (8lbs)
Primary Power	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:** <sup>(1)</sup> For 50 Ohm/N-Type please order BR300L-N (SMA Type is also available)

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**INTEGRATED SATELLITE SOLUTIONS**

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May 2016

# 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)
- 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:

<sup>(1)</sup> 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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## INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change

May 2016

# PowerSmart



## TECHNICAL SPECIFICATIONS

### Environmental

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

### Physical

Dimensions	W: 48.3 cm (19")
	D: 36.2 cm (14")
	H: 4.5 cm (2")
Weight	6.3 kg (14 lbs)

### Bias-T Thruplexer (Optional)

C-COM standard	L-Band and 10 MHz pass (not generated)
C-COM Mux-T	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	85 - 264VAC
Frequency Range	47 - 63 Hz
AC Current	6.5A / 115VAC 3.5A / 230VAC

### Front Panel Switches

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

### 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 separate power source

### Certifications

FCC, CE, QPS

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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016

# Transportable Cases



## TECHNICAL SPECIFICATIONS

### iNetVu® 1200 2-Cases, 1-Piece Reflector:

Metallic Option - Aluminum Finish    ATA Plastic Option



### iNetVu® 980 Case:



#### Major Features

- Available in Attractive Black-Coloured ATA Cases
- High-grade Aluminum Extrusion Frames
- Durable Plastic and Plywood Laminate Panels
- Water-resistant Flat Surface with Drains
- Closed Cell Foam Padding
- Unique L-Shaped Interlocking Covers
- High-Strength Latches, Corners, and Recessed Handles
- 1200 Available in plastic or metal

#### Ideal for Mobile Applications:

- Military Field Sites, Homeland Security and Police Units
- Disaster Recovery Operations
- Mobile Medical Units
- Remote and Temporary Field Offices
- Mining and Forestry Operations
- News / Media Events
- Almost any other store / ship / deploy application

#### External Dimensions (All Heights Include Wheels)

Model Type	(L x W x H)	Weight [cases only]	Total Weight <sup>(2)</sup> [case + platform ]
iNetVu® 750	157 x 110 x 46 cm (62" x 43" x 18")	54.5 kg (120 lbs)	110 kg (240 lbs)
iNetVu® 980	172 x 111 x 74 cm (68" x 44" x 29")	68 kg (150 lbs)	160 kg (353 lbs)
iNetVu® 981	183 x 109 x 47 cm (72" x 43" x 18.5")	67 kg (151 lbs)	133.5 kg (294 lbs)
iNetVu® 1200: 1-Case	219 x 143 x 84 cm (86" x 56" x 33")	95.5 kg (211 lbs)	164 kg (362 lbs)
iNetVu® 1200: 2-Case, 1-pc Reflector (Standard Plastic)			
Platform Unit Case	178 x 69 x 74 cm (70" x 27" x 29")	69 kg (137 lbs)	149 kg (328 lbs)
Reflector Unit Case <sup>(1)</sup>	132 x 25 x 147 cm (52" x 10" x 58")	33.5 kg (78 lbs)	49 kg (109 lbs)
iNetVu® 1200: 2-Case, 1pc Reflector (Metallic Option)			
Platform Unit Case	178 x 76 x 74 cm (70" x 30" x 29")	74 kg (163 lbs)	161.5 kg (356 lbs)
Reflector Unit Case <sup>(1)</sup>	132 x 26 x 147 cm (52" x 10" x 58")	34 kg (75 lbs)	50 kg (110 lbs)
iNetVu® 1200: 2-Case, 2pc Reflector			
Platform Unit Case	178 x 76 x 74 cm (70" x 30" x 29")	68 kg (137 lbs)	150 kg (331 lbs)
Reflector Unit Case <sup>(1)</sup>	132 x 26 x 147 cm (52" x 10" x 58")	33 kg (97 lbs)	52 kg (115 lbs)
iNetVu® 1800+: 2-Case, 1pc Reflector			
Platform Unit Case	213 x 86 x 79 cm (84" x 34" x 31")	82 kg (180 lbs)	207 kg (456 lbs)
Reflector Unit Case <sup>(1)</sup>	218 x 206 x 35 cm (86" x 81" x 14")	68 kg (150 lbs)	105 kg (231 lbs)

Note: <sup>(1)</sup> This case does not have wheels  
Weights and dimensions are subject to change without notice

<sup>(2)</sup> Weight of cables and controller not included

## INTEGRATED SATELLITE SOLUTIONS

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Specifications are subject to change

May 2016

# Transportable Cases



## TECHNICAL SPECIFICATIONS

### iNetVu® 7000 Controller Rackmount Case



### Controller Transportable Cases

Model Type	(W x H x L)	Weight [cases only]	Total Weight [Case + Controller]
iNetVu® 7000/7024 Controller 6U 19" Rack Case <sup>(1)</sup>	(Comes with detachable end covers) 74 x 51 x 72 cm (29" x 20" x 28")	26 kg (57 lbs)	30 kg (66 lbs)
8U: Optional	77 x 59 x 74 cm (30" x 23" x 29")	26.8 kg (59 lbs)	32 kg (70 lbs)
10U:	74 x 66 x 72 cm (29" x 26" x 28")	31.8 kg (70 lbs)	37 kg (81 lbs)
12U:	77 x 77 x 72 cm (30" x 30" x 28")	34 kg (75 lbs)	40 kg (86 lbs)
iNetVu® 7710 Controller (3U)	44.5 x 80 x 38 cm (17.5" x 31.5" x 15")	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" x 33" x 13.5")	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)
iNetVu® 1201 Drive-Away Platform:	211 x 65 x 45 cm (83" x 25.8" x 17.8")	65.9 kg (145 lbs)	147.9 kg (325 lbs)
Reflector: 1- piece:	127 x 122 x 20 cm (50" x 48" x 8")	29.5 kg (65 lbs)	45.5 kg (100 lbs)
Reflector: 2- piece: (Optional)	132 x 31 x 76 cm (52" x 12" x 30")	18 kg (39 lbs)	34 kg (74 lbs)
iNetVu® ACFLY-1200			
Case 1: antenna platform	71 x 48.5 x 39 cm (28" x 19" x 15.3")		32 kg (70 lbs)
Case 2: 3U Rack mount	71 x 48.5 x 39 cm (28" x 19" x 15.3")	13.5 kg (29.7 lbs)	32 kg (70 lbs)
Case 3(Optional): 4U Rack mount	62.2 x 34.3 x 47.6 cm (24.5" x 13.5" x 18.8")	10.7 kg (23.5 lbs)	10.7 kg (23.5 lbs)
iNetVu® FLY-1201			
Case 1: 2-piece reflector	130 x 29.5 x 75 cm (51.2" x 11.6" x 29.5")	18.6 kg (41 lbs)	33.5 kg (73.7 lbs)
Case 2: Ku Feed arm	120.6 x 55.2 x 24.7 cm (47.5" x 21.7" x 9.7")	12 kg (26.5 lbs)	20.5 kg (45.1 lbs)
Case 3: Tripod	95 x 69 x 37 cm (37.4" x 27.2" x 14.5")	17.4 kg (38.5 lbs)	42 kg (92.4 lbs)
Case 4: 6U rack mount	74 x 51 x 72 cm (29" x 20" x 28")	26 kg (57 lbs)	32 kg (70 lbs)

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# Transportable Skid



## TECHNICAL SPECIFICATIONS

The iNetVu Transportable Skid is a robust transportable base which is designed to support the iNetVu 1200 antenna system. The skid can be transported using forklifts or hoists making it possible to rapidly deploy the antenna system without the need to mount it on a trailer or a vehicle.

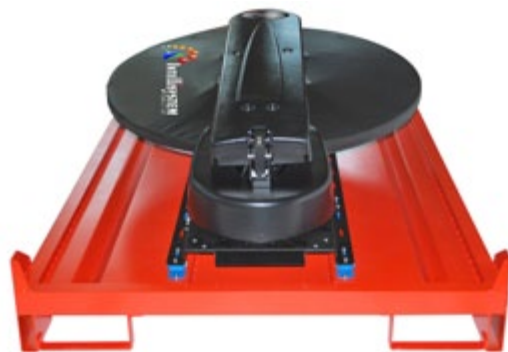


(Shown with the iNetVu 1200 antenna system and shock absorbers)



### Features

- Welded aluminum construction is rigid, lightweight & robust
- Easily handled by forks from pallet trucks and warehouse lift-trucks to large outdoor vehicles
- Fork access from all 4 sides
- Easily hoistable
- Antenna can be quickly mounted/demounted
- Ships fully assembled for very fast integration and deployment
- Optional shock absorbers to greatly reduce road damage
- Extra strongpoints that accommodate a rack case and generator for self-contained antenna deployment
- Optional cable spool



### Physical

Skid w/ system (without shocks)	146 cm x 205.5 cm x 66.7 cm (57.5" x 80.9" x 26.25")
Skid w/ system (with shocks)	146 cm x 205.5 cm x 71.7 cm (57.5" x 80.9" x 28.25")
Weight: Skid only	68.9 kg (152 lbs)
Weight: Skid w/ system	161.5 kg (356 lbs)

### Shipping Weights & Dimensions <sup>(1)</sup>

Skid w/ system + lid:	146 cm x 205.5 cm x 83.8 cm (57.5" x 80.9" x 26.25"), 225 kg (456 lbs)
Lid :	45.4 kg (100 lbs)
Controller + Cables (30ft):	18.1 kg (40 lbs)
Total shipping weight of Skid w/ lid, system, controller + cables:	225.5 kg (496 lbs)

Note: <sup>(1)</sup>

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

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# Enclosed Skid - 1200



## TECHNICAL SPECIFICATIONS

The iNetVu Transportable Enclosed Skid is a robust transportable enclosure which is designed to support the iNetVu 1200 antenna system. The Enclosed Skid can be transported using forklifts or hoists making it possible to rapidly deploy the antenna system without the need to mount it on a trailer or a vehicle. It also allows for stackability for easier space management & warehousing.



### Features

- Welded aluminum construction is rigid, lightweight & robust
- Easily handled by forks from pallet trucks and warehouse lift-trucks to large outdoor vehicles
- Fork access from all 4 sides
- Easily hoistable
- Antenna can be quickly mounted/demounted
- Ships fully assembled for very fast integration and deployment
- Stackable up to 3 units
- One person operation
- Shock absorbers to reduce road damage
- Extra strongpoints that accommodate a rack case and generator for self-contained antenna deployment
- Optional cable spool

### Physical

Enclosed Skid w/ system	148 cm x 207 cm x 79 cm (58.27" x 81.5" x 31.1")
Weight - Enclosed Skid w/ system:	235.9 kg (520 lbs)
Weight - Empty Enclosed Skid:	143.3 kg (316 lbs)

### Shipping Weights & Dimensions\*

Enclosed Skid w/ system & packaging:	148 cm x 207cm x 79 cm (58.27" x 81.5" x 31.1"), 242.7 kg (535 lbs)
Controller + Cables (30ft):	18.1 kg (40 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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# Cables



## TECHNICAL SPECIFICATIONS



Motor Cable



Sensor Cable



Splitter Cable

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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# Matrix



## TECHNICAL SPECIFICATIONS

### Drive-Away Antennas

Models ⇄ Features ↓	Ka-75V	980	981	Ka-98			1200	1201 w/pod	1500	1501	1800+
				G	V	H					
Band	Ka	Ku	Ku	Ka	Ka	Ka	Ku / X	Ku	Ku, C-Linear, C-Circular	Ku, C-Linear, C-Circular	Ku, C-Linear, C-Circular
Deployed Height (mm)	1260	1320	1481	1510	1510	1510	1676	1650	1800	1800	2480
Stowed Height (mm)	300	463	300	300	300	300	488	340	490	490	670
Total Weight (kg)	52	65	54	54	54	54	92.5	88	83.2	TBD	155
Max. RF (BUC/LNB) Components weight (lbs)	11	12	30	11	11	11	22	33	25	25	25
Max. RF, BUC Dims (LxWxH/inches)	3W Custom	10x7.5x3.5	12x7.5 x5.5 w/pod: 10x7.5 x5.5	3W Custom	4W Custom	1-2W Custom	19.0x9.5x5.5	12.0x15.2x5.8	19. x9.5x5.5	19. x9.5x5.5	19.0x9.75x8
Reflector	ViaSat 75 Ka	Prodelin 1984/1985	Skyware 98	Skyware 98 Ka	Skyware 98 Ka	Skyware 98 Ka	Prodelin 1132/1134	Skyware 125	Carbon Fibre	Carbon Fibre	Skyware 183
Elevation (degrees)	0 to 90	0 to 65	0 to 90	0 to 90	0 to 90	0 to 90	0 to 78	0 to 90	0 to 75	0 to 90	0 to 80
Polarization (+ degrees)	N/A	70	90	Auto or 45 (LHCP/RHCP)	Auto or 45 (LHCP/RHCP)	Auto or 45 (LHCP/RHCP)	90	95	90	95	90
Frequency Rx (GHz)	18.30 - 20.20	10.95-12.75	10.70 - 12.75	19.20 - 20.20	18.30 - 20.20	19.20 - 20.20	Ku:10.95 - 12.75 X: 7.25 - 7.75	10.70 - 12.75	Ku:10.70 - 12.75 C-Linear: 3.40 - 4.20 C- Circular: 3.625 - 4.20	Ku:10.70 - 12.75 C-Linear: 3.625 - 4.20 C- Circular: 3.625 - 4.20	Ku:10.70 - 12.75 C-Linear: 3.40 - 4.20 C- Circular: 3.625 - 4.20
Frequency Tx (GHz)	28.10 - 30.0	13.75 - 14.50	13.75 - 14.50	29.50 - 30.00	28.10 - 30.00	29.50 - 30.00	Ku:13.75-14.50 X: 7.90 - 8.40	13.75 - 14.50	Ku: 13.75 - 14.50 C-Linear: 5.85 - 6.725 C- Circular: 5.85 - 6.425	Ku: 13.75 - 14.50 C-Linear: 5.85 - 6.425 C- Circular: 5.85 - 6.425	Ku: 13.75 - 14.50 C-Linear: 5.85 - 6.725 C- Circular: 5.85 - 6.425
Midband Gain (Rx, Tx)	41.40, 44.50	39.80, 41.30	39.70, 41.20	43.50, 46.60	43.50, 46.60	43.50, 46.60	Ku: 41.50, 43.0 X: 37.40 - 38.10	41.80, 43.30	Ku: 43.70, 45.00 C-Linear: 33.40, 37.20 C- Circular: 33.30, 37.10	Ku: 43.70, 45.00 C-Linear: 33.40, 37.20 C- Circular: 33.30, 37.10	Ku: 45.30, 46.80 C-Linear: 35.40, 39.30 C- Circular: 35.40, 39.50
Wind Deployed (km/h)	160	160	160	160	160	160	112	112	112	112	112
Wind Stowed (km/h)	225	225	225	225	225	225	225	160	225	225	225
Survival Temp. (°C)	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65
Operational, Wind (km/h)	72	72	72	72	72	72	72	75	72	72	72
Operational, Temp. (°C)	-30 to 55	-30 to 55	-30 to 55	-30 to 55	-30 to 55	-30 to 55	-32 to 55	-30 to 55	-30 to 55	-30 to 55	-32 to 55
Controller	7024C	7000C	7024C	7024C	7024C	7024C	7000C	7024C	7000C	7710	7000C
Standard Cables (75 Ohm) (50 Ohm -Opt.)	CB-7024-10 10m (33ft)	CB-7000-30-MIL 9.1m (30ft)	CB-7024-10 10m (33ft)	CB-7024-10 10m (33ft)	CB-7024-10 10m (33ft)	CB-7024-10 10m (33ft)	CB-7000-30-MIL 9.1m (30ft)	CB-7024-10 10m (33ft)	CB-7000-30-MIL 9.1m (30ft)	CB-7000-30-MIL 9.1m (30ft)	CB-7000-30-MIL-18 9.1m (30ft)
Optional Cable Lengths (up to)	10-60m (33 - 200 ft)	60m (200ft)	60m (200ft)	10-60m (33 - 200 ft)	10-60m (33 - 200 ft)	10-60m (33 - 200 ft)	60m (200ft)	60m (200ft)	60m (200ft)	60m (200ft)	45m (150ft)
Warranty	2 years	2 years	2 years	2 years	2 years	2 years	2 years	2 years	2 years	2 years	2 years

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# Matrix



## TECHNICAL SPECIFICATIONS

### Fly-Aways

### Fixed Motorized

Models ⇄ Features ↓	FLY-75V	FLY-981	FLY-98			FLY-1201	ACFLY-1200	FMA-120 Ka	FMA-120	FMA-180	FMA-240
			G	V	H						
Band	Ka	Ku	Ka	Ka	Ka	Ku / X	Ku	Ka	Ku	Ku	Ku, C-Linear, C-Circular
Deployed Height(mm)	1325	1660	1660	1580	1580	N/A	1580	N/A	N/A	N/A	N/A
Stowed Height (mm)	290	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Weight (kg)	64	64	64	64	64	128	64	N/A	N/A	N/A	N/A
Max. RF (BUC/LNB) Platform weight(lbs)	11	11	11	11	11	33	11	11	20	22	22
Max. RF, BUC Dims (LxWxH/inches)	3W	2 - 40W	3W Custom	3W Custom	2W Custom	12 x 8 x 8	10 x 8 x 4.5	4W Custom	Any	Any	Any
Reflector	Skyware 75 Ka	Skyware Global 98	Skyware Global 98	Skyware Global 98	Skyware Global 98	Skyware 125	Carbon Fibre	Glass reinforced polyester SMC	Skyware 123	Glass reinforced polyester SMC	Glass reinforced polyester SMC
Elevation (degrees)	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	5 to 90	10 to 90	0 to 90	10 to 90	10 to 90	10 to 90
Pol (+- degrees)	Circular Auto-switching	90	Circular ±45	Circular Auto-switching	Circular ±45 Manual	Ku: 95 X:45(LHCP/RHCP)	95	Circular, Auto-switching	90	90	90
Frequency Rx (GHz)	18.30 - 20.20	10.70-12.75	19.20 - 20.20	18.30 - 20.20	19.20 - 20.20	Ku: 10.70 - 12.75 X: 7.25 - 7.75	10.70 - 12.75	19.70 - 20.20	10.95 - 12.75	10.95 - 12.75	Ku: 10.70-12.75 C-Linear: 3.625- 4.20 C- Circular: 3.625- 4.20
Frequency Tx (GHz)	28.10 - 30.0	13.75-14.50	29.50 - 30.00	28.10 - 30.00	29.50 - 30.00	Ku: 13.75 - 14.50 X: 7.90 - 8.40	13.75 - 14.50	29.50 - 30.00	13.75 - 14.50	14.0 - 14.50	Ku: 13.75-14.50 C-Linear: 5.85-6.425 C- Circular: 5.85-6.425
Midband Gain (Rx, Tx)	41.40, 44.50	39.70, 41.20	43.50, 46.60	43.50, 46.60	43.50, 46.60	Ku: 41.80, 43.30 X: 37.20, 37.80	41.50, 43.00	46.50, 49.90	41.50, 43.00	45.00, 46.50	Ku: 47.40 49.20 C-Linear: 38.20, 42.20 C- Circular: 38.00, 42.00
Wind Deployed (km/h)	100 w/ballast	100 w/ballast	100 w/ballast	100 w/ballast	100 w/ballast	145	145	200	200	200	200
Wind Stowed (km/h)	N/A	N/A	N/A	N/A	N/A	N/A	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	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65
Operational Wind (km/h)	50 no ballast 72 w/ ballast	50 no ballast 72 w/ ballast	50 no ballast 72 w/ ballast	50 no ballast 72 w/ ballast	50 no ballast 72 w/ ballast	48 no ballast 72 w/ ballast	50w/ballast	72	72	72	72
Operational, Temp. (°C)	-30 to 60	-30 to 60	-30 to 60	-30 to 60	-30 to 60	-30 to 55	-30 to 55	-30 to 60	-30 to 60	-30 to 60	-30 to 60
Controller	7710	7710	7710	7710	7710	7024C	7024C	7024C	7024C	7024C	7024C
Stand. Cables(75 Ohm) (50 Ohm - Opt.)	7.5m (25ft)	10m (33ft)	10m (33ft)	10m (33ft)	10m (33ft)	CB-FLY-SAT-30 10m (33ft)	CB-FLY-AC-30 10m (33ft)	CB-FMA-1200-50-F 15m (50ft)	CB-FMA-1200-50-F 15m (50ft)	CB-FMA-1800-50-F 15m (50ft)	15m (50ft)
Opt. Cable Lengths (up to)	N/A	10-60m (33 - 200ft)	10-60m (33 - 200ft)	10-60m (33 - 200ft)	10-60m (33 - 200ft)	10-60m (33 - 200ft)	10-60m (33 - 200ft)	10-60m (33 - 200ft)	10-60m (33 - 200ft)	10-60m (33 - 200ft)	10-60m (33 - 200ft)
Warranty	2 years	2 years	2 years	2 years	2 years	2 years	1 year	1 year	1 year	1 year	1 year

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