180

iNetVu®
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu 180 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.

- Designed to work with the iNetVu 7000 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 or C band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Using the proprietary iNetVu algorithm the system can successfully track inclined orbit satellites
- Eliminates costly repointing and network downtime due to adverse weather conditions
- 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)

Application Versatility

The 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.

Note: This is a draft. Specifications are subject to change without notice.

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Mechanical

Antenna size	1.8m (71")
Reflector Material	Glass reinforced polyester SM
Mount Type	Dual axis Motorised, Galvanised steel
Antenna optics	Prime Focus, offset feed
Mast size	3.5 SCH 40 pipe (4.00" OD)
Elevation range	70° (10° to 80° adjustable)
Azimuth Range	100° - (360° Manual adjustable)
Shipping Specifications	445 lbs (200Kg.)

Environmental

Wind loading	
Operational	50mph (80 km/h)
Survival	125mph (201 km/h)
Temperature	
Operational	-40° to 140° F (-40° to 60° C)
Survival	-50° to 160° F (-46° to 71° C)

Electrical

Elevation Actuator	24 Volt, 24" stroke
Azimuth Actuator	24 Volt, 12" stroke
Motor Cable	16 AWG, 50' (15M)
Sensor Cable	24 AWG, 50' (15 M)

Ku-Band

Operating Frequency (GHz)	
Receive	10.95 - 12.75
Transmit	14.0 - 14.50
Midband gain (+/- .2dB)	
Receive	45.0 dBi
Transmit	46.5 dBi
Antenna Noise Temp.	
10° Elevation	44K
40° Elevation	33K
Sidelobe Envelope Co-Pol	
Mainbeam <Θ<7°	29-25 LogΘ dBi
7° <Θ< 9.2°	+8 dBi
9.2° <Θ <48°	32-25 LogΘ dBi
48° <Θ <180°	-10dBi Ave.
Cross Polarization	>30 dB on axis
VSWR	1.3:1 Max
Feed Interface	
Receive	Type F or N
Transmit	WR 75

C-Band (Circular)

Operating Frequency (GHz)	
Receive	3.625 - 4.2
Transmit	5.850 - 6.425
Midband gain (+/- .2dB)	
Receive	35.5 dBi
Transmit	39.9 dBi
Antenna Noise Temperature	
10° Elevation	30K
40° Elevation	20K
Sidelobe Envelope Co-Pol	
Mainbeam <Θ<7°	29-25 LogΘ dBi
7° <Θ< 9.2°	+8 dBi
9.2° <Θ <48°	32-25 LogΘ dBi
48° <Θ <180°	-10dBi Ave.
VSWR	1.3:1 Max
Feed Interface	
Receive	CPR 229 F
Transmit	CPR 137 or type N

C-Band (Linear)

Operating Frequency(GHz)	
Receive	3.625 - 4.2
Transmit	5.850 - 6.425
Midband gain (+/- .2dB)	
Receive	35.5 dBi
Transmit	39.9 dBi
Antenna Noise temperature	
10° Elevation	56K
40° Elevation	46K
Sidelobe Envelope Co-Pol	
Mainbeam <Θ<7°	29-25 LogΘ dBi
7° <Θ< 9.2°	+8 dBi
9.2° <Θ <48°	32-25 LogΘ dBi
48° <Θ <180°	-10dBi Ave.
Cross Polarization	>30 dB on axis
VSWR	1.3:1 Max
Feed Interface	
Receive	CPR 229 F
Transmit	CPR 137 or type N

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