

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.



- 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 re-pointing 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 ASC 1.2m antenna
- Class I system designed for typical 1W and 2W Ku-band BUCs (2 Kg max. weight for RF electronics (BUC and LNB))
- Class III system designed for 4W and higher BUCs (10 Kg max. weight for RF electronics (BUC and LNB))

Application Versatility

The 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 and Emergency Services.

Mechanical

Antenna size	1.2m (48")
Reflector Material	Glass reinforced polyester SMC ⁽¹⁾
Mount Type	Three axis Motorised, Galvanised steel
Antenna optics	Prime Focus, offset feed
Mast size	2.5 SCH 80 pipe (3.00" OD)
Elevation range	80° (10° to 90° adjustable)
Azimuth Range	340° Linear Orthogonal
Polarization Range	± 90°
Shipping Specifications	

Environmental

Wind loading	
Operational	45mph (72 km/h)
Survival	125mph (200 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	10.70 - 12.75
Transmit	13.75 - 14.50
Midband gain (± .2dB)	
Receive	41.8 dBi
Transmit	43.3 dBi
Antenna Noise Temp.	
10° Elevation	45K
30° Elevation	24K
Sidelobe Envelope Co-Pol	
1.5° <θ < 20°	29-25 Logθ dBi
20° <θ < 26.3°	-3.5 dBi
26.3° <θ < 48°	32-25 Logθ dBi
48° <θ < 180°	-10dBi Typical
Cross Polarization	> -30 dB in 1dB contour
VSWR	1.3:1 Max
Feed Interface	
Receive	Type F or N
Transmit	WR 75

Warranty

Standard	1 year
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