

# FMA-120



**Remote Satellite Systems**  
INTERNATIONAL

## 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.

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## 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.)	
Isolation (Port-to-Port)	35 dB	80 dB
Feed Interface	Type F or N	WR 75
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

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