

# FMA-120

**iNetVu**<sup>®</sup>  
by C-COM Satellite Systems Inc.

## TECHNICAL SPECIFICATIONS

The iNetVu<sup>®</sup> 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<sup>®</sup> 7024C Controller.



### Features

- 1.2m Offset, prime focus, thermoset-molded reflector
- Designed to work with the iNetVu<sup>®</sup> 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
- 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.

**melcom**

[www.melcom.co.uk](http://www.melcom.co.uk)  
+44 (0) 1932 565544

Specifications are subject to change

October 2012

# FMA-120

# iNetVu®

by C-COM Satellite Systems Inc.

## TECHNICAL SPECIFICATIONS

### Mechanical

Antenna Size	1.2m (48")
Reflector Material	Glass reinforced polyester SMC <sup>(1)</sup>
Mount 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	80° (10° to 90°)
Azimuth Range	340°
Polarization Range	± 90°

### Environmental

Wind Loading	
Operational	72 km/h (45mph)
Survival	200 km/h (125mph)
Temperature	
Operational	-40° to 60° C (-40° to 140° F)
Survival	-46° to 71° C (-50° to 160° 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	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° < $\theta$ < 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 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

To be determined

Note: <sup>(1)</sup> Antenna based on Skyware, Model 123

# melcom

[www.melcom.co.uk](http://www.melcom.co.uk)  
+44 (0) 1932 565544

Specifications are subject to change

October 2012