

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.

www.intellisystem.it

Via Augusto Murri N°1 - 96100 Siracusa (ITALY)
info@intellisystem.it +39 (0)931-1756256 +39 335 1880035

INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change

May 2016

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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) ⁽¹⁾
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 ⁽²⁾	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 ⁽²⁾	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 ⁽²⁾	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: 233.7cm 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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