

FMA-241

iNetVu®
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu® 241 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® 7715 Controller.



Features

- 2.4m Offset, 4-piece Prime Focus, Glass Fiber SMC reflector
- Designed to work with the iNetVu® 7715 Controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 2 Axis motorization, 3rd Axis (Polarization) optional
- It is a cost effective solution for multi-satellite communication at any location
- One button, auto-pointing controller acquires any Ku, C or X band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Eliminates costly repointing 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)
- 1 Year Warranty

Application Versatility

The FMA-241 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.

C-COM
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Specifications are subject to change

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TECHNICAL SPECIFICATIONS

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	10° - 90°
Azimuth Range	330° (±165°)
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	24V
Azimuth	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

Shipping Weights & Dimensions* (TBD)

Box 1: 162.6 cm x 109.2 cm x 66 cm (64" x 43" x 26") 154.5 kg (340 lbs)
 Box 2: 274.3 cm x 50.8 cm x 27.9 cm (108" x 20" x 11") 84 kg (185 lbs)
 Box 3: 149.9 cm x 149.9 cm x 104.1 cm (59" x 59" x 41") 163.6 kg (360 lbs)
 Total weight with skid: 402 kg (885 lbs)
 Estimated Net Weight (No boxes): 318 kg (700 lbs)

* The shipping weights/dims can vary for particular shipments depending on actual system configuration, quantity, packaging materials and special requirements

Antenna Bands

Transmit Power Feed	1 to 400 watt 2 Port XPol									
			<i>Ku-Linear</i>		<i>C-Linear</i>		<i>C-Circular</i>		<i>X-Circular</i>	
	Receive	Transmit	Receive	Transmit	Receive	Transmit	Receive	Transmit	Receive	Transmit
Frequency (GHz)	10.70 - 12.75 ⁽¹⁾	13.75 - 14.50	3.40 - 4.20 ⁽¹⁾	5.845 - 6.725	3.625 - 4.20 ⁽¹⁾	5.85 - 6.425	7.25 - 7.75 ⁽¹⁾	7.90 - 8.40		
(Optional)	10.70 - 11.70	12.75 - 14.50	4.50-4.80	6.725-7.025						
Feed Interface	Type F or N	WR 75	CPR-229	N or CPR-137	CPR-229	N or CPR-137	WR-112	WR-112		
Midband Gain Co-Pol (± 0.2dBi)	47.40	49.20	38.20	42.20	38.00	42.00	43.70	44.40		
Antenna Noise Temp. (K)	10° EL= 51; 20° EL=48; 40° EL= 41		10° EL= 47; 20° EL=43; 40° EL= 43		10° EL= 53; 20° EL=49; 40° EL= 49		10° EL= 38; 20° EL=33; 40° EL= 29			
Sidelobe Envelope, Co-Pol (dBi)							DSCS Req.			
1.5°<θ<20°	29 - 25 Logθ		29 - 25 Logθ		29 - 25 Logθ					
20°<θ<26.3°	-3.5		-3.5		-3.5					
26.3°<θ<48°	32-25 Log θ		32-25 Log θ		32-25 Log θ					
θ > 48°	-10 (Typical)		-10 (Typical)		-10 (Typical)					
Cross-Polarization on Axis	> 30 dB	> 35 dB	> 30 dB	> 30 dB	> 15	> 17.7				
Within 1dB Beamwidth	> 25	> 26	> 27	> 27	> 15	> 17.7				
Tx/Rx Isolation	> 35 dB	80 dB	55 dB	80 dB	55 dB	75 dB			20 dB	20 dB
VSWR	1.5:1 (Max.)	1.3:1 (Max.)	1.3:1 (Max.)	1.3:1 (Max.)	1.3:1 (Max.)	1.3:1 (Max.)			1.25:1 (Max.)	1.25:1 (Max.)

Note: ⁽¹⁾ LNB PLL Type required with stability better than ± 25 KHz

