

MP-100-MOT

iNetVu®
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu® MP-100-MOT is a fully motorized, auto-acquire, 100cm carbon fiber manpack antenna. This robust and lightweight (~20kg) system will point to any programmed satellite with just the push of a button on the NEW iNetVu® 8020 Controller. C-COM's highly portable, multi-segment manpack can be hand-carried by one person and assembled in less than 10 minutes with no tools required.



Soft Case Solution (Standard)



8020 Controller



Features

- 100 cm 7-piece carbon fibre reflector
- Single Backpack Case Solution
- Operates in Ku, Ka or X band
- Designed to work with the iNetVu® 8020 Controller
- 2 Axis Motorization
- Supports manual control when required
- One button, auto-pointing controller acquires Ku-band satellite within 2 minutes
- Captive hardware / fasteners
- No tools required for assembly / disassembly
- Set-up time less than 10 minutes, one person job
- 1 Year Standard Warranty

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Application Versatility

The MP-100-MOT manpack system can be easily configured to provide quick access to satellite communications for any application that requires remote connectivity in a rugged environment. Ideally suited for applications that require a quick, simple set-up; in vertical markets such as emergency response, disaster management, public safety, broadcasting, media and more.

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Mechanical

Reflector	100 cm segmented carbon fibre
Number of Petals	7
Platform Geometry	Elevation over Azimuth
Antenna Optics	Centre Feed
Deployment Sensors	GPS antenna
	Compass $\pm 5^\circ$
	Tilt sensor $\pm 0.05^\circ$
Antenna Optics	Centre Feed
Azimuth	360° Continuous
Elevation	5° - 90°
Polarization	$\pm 95^\circ$
Elevation Deploy Speed	Variable, 11°/sec typ.
Azimuth Deploy Speed	Variable 11°/sec typ.
Peaking Speed	3°/sec (steps in $\pm 0.01^\circ$ /sec)

Environmental

Wind loading	
Operational	
With Ballast/Anchors	45 km/h (28.1 mph)
Survival	
With Ballast/Anchors	72 km/h (45 mph)
Temperature	
Operational	-20° to 55° C (-4° to 131° F)
Survival	-30° to 60° C (-22° to 140° F)

Case

Single Backpack Soft Case (Empty): 6.6 Kg (14.5 lbs)
Size: 84 x 51 x 41 cm (33.0" x 20.0" x 16.0")
Weight (Incl. Ku Antenna⁽¹⁾): 21.5 Kg (47.4 lbs)
Optional: Hard Case TBD
Rugged Case Size: TBD

Shipping Weights & Dimensions*

TBD

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

Ku-Band (Linear)

Transmit Power	1 to 200 watt	
Feed	2 Port XPol	
	Receive	Transmit
Frequency (GHz)	10.70- 12.75	13.75 - 14.50
Feed Interface	WR75	WR75 ⁽²⁾
Midband Gain ($\pm .2$ dBi)	40.10	41.40
Sidelobe Envelope Co-Pol (dBi)		
100 λ /D $^\circ$ < Θ < 7 $^\circ$	35-25 Log Θ	
7 $^\circ$ < Θ < 9.2 $^\circ$	13.9	
9.2 $^\circ$ < Θ < 48 $^\circ$	38-25 Log Θ	
48 $^\circ$ < Θ < 180 $^\circ$	-4 Typical	
Cross-Polarization on Axis	>35 dB	
Within 1dB Beamwidth	>30 dB	
Tx/Rx Isolation	40 dB	85 dB
VSWR	1.3:1	1.3:1

Ka-Band (Circular)

	Receive	Transmit
Operating Frequency (GHz)	19.20 - 21.20	29.0 - 31.0
Midband Gain ($\pm .2$ dBi)	44.50	47.60
Polarization X-POL	LHCP/RHCP	
Feed Interface	WR-42	WR-28
VSWR	<1.5:1	<1.25:1
Isolation (dB)	>55	>55

X-Band (Circular)

	Receive	Transmit
Operating Frequency (GHz)	7.25 - 7.75	7.90 - 8.40
Midband Gain ($\pm .5$ dB)	36.40	37.0
Polarization X-POL	LHCP/RHCP	
Sidelobe Compliant with	DSCS Req.	
Feed Interface	WR-112	WR-112
VSWR	<1.25:1	<1.25:1
Isolation (dB)	>23	>23

Notes:

⁽¹⁾ Weight indicated does not include BUC, LNB and Cables

⁽²⁾ Maximum BUC dims supported: 3.9 cm x 3.9 cm x 1.7 cm; 0.5Kg;
Larger BUCs must use quick disconnect flex waveguide