

# MP-81-MOT



## TECHNICAL SPECIFICATIONS

The iNetVu® MP-81-MOT is a fully motorized, auto-acquire, 80 cm carbon fiber Manpack antenna. This robust and lightweight system will point to any programmed satellite with just the push of a button on the NEW iNetVu® 8050 Controller. The 8050 Controller supports DVB-S2X and is fully compatible with a list of open AMIP supported modems. 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 (Front View)



Soft Case Solution (Rear View)



Reflector Segments



### Features

- 80 cm 5-piece carbon fibre reflector
- Single Backpack Soft Case Solution
- Operates in Ku, Ka or X band
- Designed to work with the iNetVu® 8050 Controller
- Monitor and Control Via Front Panel display or Web Interface
- Remote access and operation via Network or WiFi Interfaces
- 2 or 3 Axis Motorization
- Supports manual control when required
- One button, auto-pointing controller acquires satellite within 1 minute
- Captive hardware / fasteners
- No tools required for assembly / disassembly
- Set-up time less than 10 minutes, one person job
- 1 Year Standard Warranty



8050 Controller

### Application Versatility

The MP-81-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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# iNetVu®

by C-COM Satellite Systems Inc.

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### Mechanical

Reflector	80 cm segmented carbon fibre
Number of Petals	5
Platform Geometry	Elevation over Azimuth
Antenna Optics	Centre Feed
Deployment Sensors	GPS antenna
	Compass $\pm 5^\circ$
	Tilt sensor $\pm 0.1^\circ$
Azimuth	360° Continuous
Elevation	5° - 90°
Polarization	$\pm 95^\circ$ or LH/RH CP
Elevation Deploy Speed	Variable 11°/sec typ.
Azimuth Deploy Speed	Variable 11°/sec typ.
Peaking Speed	Variable $\pm 0.1^\circ$

### Environmental

Wind loading	
Operational	
With Ballast/Anchors	45 km/h (28.1 mph)
Optional: With Ballast/Anchors	50 km/h (31 mph) <sup>(4)</sup>
Survival	
With Ballast/Anchors	72 km/h (45 mph)
Temperature	
Operational	-20° to 60° C (-4° to 140° F)
Survival	-30° to 70° C (-22° to 158° F)
IP Protection	IP66
Humidity	0-100% (non-condensing)

### Case

Single Backpack Soft Case (Empty): 5.4 Kg (12.0 lbs)
Size: 84 x 51 x 41 cm (33.0" x 20.0" x 16.0")
Weight (Incl. Ku Antenna (1)): 21 Kg (46.2 lbs)
Optional: Hard Case Size: 94cm x 55.2cm x 41.6cm (37" x 21.75" x 16.37")
Weight (Empty): 10.5 Kg (23 lbs)

### Electrical

DC Input: 24VDC @ 6A (RMS)	
AC/DC Adapter: Universal AC Input (100-277VAC) / 24VDC	
Network Interface	RJ45 Connector and WiFi (2.4GHz)
Power Consumption:	Idle: 12W
	Operational (Max): 50W
Control Cables: Standard 5m (16ft),	Optional up to 60m (200ft) <sup>(5)</sup>

### Modem Compatibility

The DVB-S2X Tuner is an integrated part of all Manpacks. It allows the iNetVu® system the option to find the satellite with and without the use of a satellite modem. Compact and adaptable, this high performance tuner is programmable to any DVB-S or DVB-S2/ACM or DVB-S2X frequency and allows the user to pre-configure specific satellite options.

HNS - HT2500 (dual IFL)	Newtec - Dialog - MDM3310/2510/3XXX
Gilat - Skyedge IIc - Capricorn 4	UHP/CEL - 100/200/230/240
iDirect - Evolution/Velocity- iQ200/X7	SpaceBridge - U7400
ND Satcom - SKYWAN 5G	Comtech - SLM-5650B/C2
Datum Systems - M7L/LT	

### Ku-Band (Linear)

Transmit Power	1 to 200 watt	
Feed	2 Port XPol	
	<b>Receive</b>	<b>Transmit</b>
Frequency (GHz)	10.70- 12.75 <sup>(2)</sup>	13.75 - 14.50
Optional Low Ku	10.70- 11.70 <sup>(2)</sup>	12.75 - 14.50
Feed Interface	WR75	WR75 <sup>(3)</sup>
Midband Gain ( $\pm .2$ dBi)	38.30	39.60
Sidelobe Envelope Co-Pol (dBi)		
100 $\lambda$ /D° < $\Theta$ < 7°	35-25 Log $\Theta$	
7° < $\Theta$ < 9.2°	13.9	
9.2° < $\Theta$ < 48°	38-25 Log $\Theta$	
48° < $\Theta$ < 180°	-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)

	<b>Receive</b>	<b>Transmit</b>
Operating Frequency (GHz)	17.7 - 21.2 <sup>(2)</sup>	27.5 - 31.0
Midband Gain ( $\pm .2$ dBi)	42.60	45.70
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)

	<b>Receive</b>	<b>Transmit</b>
Operating Frequency (GHz)	7.25 - 7.75 <sup>(2)</sup>	7.90 - 8.40
Midband Gain ( $\pm .5$ dB)	34.60	35.0
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

### Shipping Weights & Dimensions\*

Single Backpack Soft Case :
Size: 92 x 61 x 46cm (36.0" x 24.0" x 18.0")
Weight (Including Antenna <sup>(1)</sup> ): 22.5Kg (49.6 lbs)

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

Notes:

- (1) Weight indicated does not include BUC, LNB and Cables
- (2) LNB PLL Type required with stability better than  $\pm 10$  KHz
- (3) Maximum BUC dims supported: 14 cm x 9.8 cm x 4.2 cm (5.5" x 3.9" x 1.7"); 1 Kg (2.2 lbs)  
Larger BUCs must use quick disconnect flex waveguide
- (4) Must order MP-81-MOT-CC for this option
- (5) Optional cables may require a second case

**C-COM**  
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Specifications are subject to change

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