

MP-80-MOT

iNetVu[®]
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu[®] MP-80-MOT is a fully motorized, auto-acquire, 80cm 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[®] 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

- 80 cm 5-piece carbon fibre reflector
- Single Backpack Soft Case Solution (Rugged Hard Case Optional)
- Operates in Ku, Ka or X band
- Designed to work with the iNetVu[®] 8020 Controller
- Monitor and Control Via Front Panel display or Web Interface
- 2 or 3 Axis Motorization
- Supports manual control when required
- One button, auto-pointing controller acquires Ku-band satellite within 30 seconds
- Captive hardware / fasteners
- No tools required for assembly / disassembly
- Set-up time less than 10 minutes, one person job
- 1 Year Standard Warranty

Application Versatility

The MP-80-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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TECHNICAL SPECIFICATIONS

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 $\pm 0.05^\circ$
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	11°/sec (steps in $\pm 0.01^\circ$)

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)
IP Protection	IP66
Humidity	0-100% (non-condensing)

Case

Single Backpack Soft Case (Empty): 7.5 Kg (16.5 lbs)
Size: 84 x 43.2 x 39.4 cm (33.0" x 17.0" x 15.5")
Weight (Incl. Ku Antenna (1)): 21 Kg (46.2 lbs)
Optional: Hard Case with Sling Load backpack (Empty): 16 Kg (35.3 lbs)
Rugged Case Size: 72.4 x 50.8 x 33 cm (28.5" x 20" x 13")
Weight (Including Antenna (1)): 28.5 Kg (62.8 lbs)

Electrical

DC Input: 24VDC @ 3A (RMS)	
Power Consumption:	
Idle:	12W
Operational (Max):	50W

Modem Compatibility

The DVB-S2/ACM 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 frequency and allows the user to pre-configure specific satellite options.

Open AMIP

Gilat - Skyedge IIc - Capricorn 4	UHP - 100/200
iDirect - Evolution - iQ200	
Newtec - Dialog - MDM3310	

Ku-Band (Linear)

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

	Receive	Transmit
Operating Frequency (GHz)	19.20 - 21.20 ⁽²⁾	29.0 - 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)

	Receive	Transmit
Operating Frequency (GHz)	7.25 - 7.75 ⁽²⁾	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: 89 x 43.2 x 38.1 cm (35.0" x 18.5" x 17.0")
Weight (Including Antenna ⁽¹⁾): 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 ± 10 KHz

⁽³⁾ Maximum BUC dims supported: 9.8 cm x 9.8 cm x 4.2 cm (3.9" x 3.9" x 1.7"); 0.5Kg (1.1lbs)
Larger BUCs must use quick disconnect flex waveguide metric