MP-60-MOT

iNetVu®
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu® MP-60-MOT is a fully motorized, auto-acquire, 60 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® 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

- 60 cm 6-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-60-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.

C-COM SATELLITE SYSTEMS INC.

613-745-4110 | 1- 877-463-8886 (1- 877-iNetVu6)
www.c-comsat.com

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TECHNICAL SPECIFICATIONS

Mechanical

Reflector	60 cm segmented carbon fibre
Number of Petals	6
Platform Geometry	Elevation over Azimuth
Antenna Optics	Centre Feed
Deployment Sensors	GPS antenna
	Compass ± 5°
	Tilt sensor ± 0.05°
Azimuth	360° Continuous
Elevation	5° - 90°
Polarization	± 95°
Elevation Deploy Speed	Variable , 11°/sec typ.
Azimuth Deploy Speed	Variable 11°/sec typ.
Peaking Speed	11°/sec (steps in ± 0.01°)

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 × 43.2 × 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 × 50.8 × 33 cm (28.5" x 20" x 13")
Weight (Including Antenna (1)) : 28.5 Kg (62.8 lbs)

Electrical

DC Input: 24VDC @ 3A (RMS)
AC/DC Adapter: Universal AC Input (100-277VAC) / 24VDC
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

HNS - HT2500 (dual IFL)
Gilat - Skyedge IIc - Capricorn 4
iDirect - Evolution - iQ200
Newtec - Dialog - MDM3310
UHP - 100/200

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 (± .2 dBi)	35.70	37.20
Sidelobe Envelope Co-Pol (dBi)		
100λ/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	<1.5:1	<1.5:1

Ka-Band (Circular)

	Receive	**Transmit**
Operating Frequency (GHz)	17.7 - 21.2 (2)	27.5 - 31.0
Midband Gain (± .2dBi)	40.20	43.20
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 (± .5dB)	32.10	32.70
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 × 43.2 × 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 waveguidemetric

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