MP-100-MOT

iNetVu®
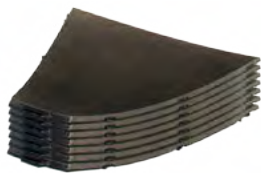by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu® MP-100-MOT is a fully motorized, auto-acquire, 100 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 (Rear View)

Soft Case Solution (Front View)

Reflector Segments

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
- 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-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.

C-COM SATELLITE SYSTEMS INC.

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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 ± 5º
	Tilt sensor ± 0.05º
Azimuth	360º Continuous
Elevation	5º - 90º
Polarization	± 90º or LHCP/RHCP
Elevation Deploy Speed	Variable , 11º/sec typ.
Azimuth Deploy Speed	Variable 11º/sec typ.
Peaking Speed	11º/sec (steps in ± 0.01º)

Environmental

Wind loading	
Operational	
With Ballast/Anchors	45 km/h (28.1 mph)
Survival	
With Ballast/Anchors	72 km/h (45 mph)
Temperature	
Operational	-20º to 55º C (-4º to 131º F)
Survival	-30º to 60º C (-22º to 140º F)
IP Protection	IP66
Humidity	0-100% (non-condensing)

Case

Single Backpack Soft Case (Empty): 5.4 Kg (12.0 lbs)
Size: 84 × 51 × 41cm (33.0" x 20.0" x 16.0")
Weight: 2-Axis (Incl. Antenna[1]): 22.8 Kg (50.2 lbs)
      3-Axis (Incl. Antenna[1]): 24.5 Kg (54.0 lbs)
Optional: Hard Case Size: 94cm × 55.2cm × 41.6cm (37" × 21.75" × 16.37")
      Weight (Empty): 10.5 Kg (23 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)	Newtec - Dialog - MDM3310
Gilat - Skyedge IIc - Capricorn 4	UHP - 100/200
iDirect - Evolution - iQ200	

Ku-Band (Linear)

	Receive	Transmit
Transmit Power	1 to 200 watt	
Feed	2 Port XPol	
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)	40.10	41.40
Sidelobe Envelope Co-Pol (dBi)		
100λ/D°<Θ<7º	35-25 Log Θ	
7º<Θ<9.2º	13.9	
9.2º<Θ<48º	38-25 Log Θ	
48º<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)	17.7 - 21.2[2]	27.5 - 31.0
Midband Gain (± .2dBi)	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 [2]	7.90 - 8.40
Midband Gain (± .5dB)	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

Shipping Weights & Dimensions*

Shipping Soft Case Size: 92 × 61 × 46cm (36.0" x 24.0" x 18.0")
Shipping Weight: 2-Axis (Incl. Antenna[1]): 27.7 Kg (61.0 lbs)
                    3-Axis (Incl. Antenna[1]): 29.5 Kg (65.0 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 includes 4W BUC, LNB and 5m(16ft) 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"); 1 Kg(2.2 lbs)
    Larger BUCs must use quick disconnect flex waveguide

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