

# MP-60-MOT

**iNetVu**<sup>®</sup>  
by C-COM Satellite Systems Inc.

## TECHNICAL SPECIFICATIONS

The iNetVu<sup>®</sup> 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<sup>®</sup> 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 (Front View)



Soft Case Solution (Rear View)



Reflector Segments



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<sup>®</sup> 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.

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Specifications are subject to change

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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<br>Compass $\pm 5^\circ$<br>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)                             |
| 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 Ilc - Capricorn 4 | UHP - 100/200             |
| iDirect - Evolution - iQ200       |                           |

### 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)      | 35.70                       | 37.20               |
| 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                              | < 1.5:1                     | < 1.5:1             |

### 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) | 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)

|                             |                            |                 |
|-----------------------------|----------------------------|-----------------|
|                             | <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) | 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 x 43.2 x 38.1 cm (35.0" x 18.5" x 17.0")             |
| 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:

<sup>(1)</sup> Weight indicated does not include BUC, LNB and Cables

<sup>(2)</sup> LNB PLL Type required with stability better than  $\pm 10$  KHz

<sup>(3)</sup> 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

