

MP-80

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

TECHNICAL SPECIFICATIONS

The iNetVu[®] MP-80 is a robust, lightweight, 80 cm multi-segment carbon fiber manpack antenna system which can be setup and pointed to the target satellite manually within minutes with no tools required.



Soft Case Solution (Standard)

SatAssist 1000

Features

- 80 cm 5-piece carbon fibre reflector
- Single Backpack Soft Case Solution (Rugged Hard Case Optional)
- Operates in Ku, Ka or X band
- Azimuth & Elevation angle adjustment with fast and fine tuning operations using the handheld iNetVu[®] SatAssist 1000 pointing tool
- Motorized two-axis Azimuth/Elevation Optional
- Captive hardware / fasteners
- No tools required for assembly / disassembly
- Set-up time less than 10 minutes, one person job
- 1 Year Standard Warranty

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Application Versatility

The MP-80 Manual Flyaway 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, broadcast, media and more.

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Mechanical

Reflector	80 cm segmented carbon fibre
Number of Petals	5
Platform Geometry	Elevation over Azimuth
Antenna Optics	Centre Feed
Azimuth	± 180°
Elevation	10° - 90°
Polarization	± 95°

Environmental

Wind loading	
Operational	
Without Ballast / Anchors	25 km/h (15 mph)
With Ballast/Anchors	45 km/h (28.1 mph)
Survival	
With Ballast/Anchors	72 km/h (45 mph)
Temperature	
Operational	-40° to 60° C (-40° to 140° F)

Case

Single Backpack Soft Case (Empty): 7.5 Kg (16.5 lbs)
Size: 84 × 43.2 × 39.4 cm (33.0" × 17.0" × 15.5")
Weight (Incl. Ku Antenna ⁽¹⁾): 19.5 Kg (42.9 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" × 20" × 13")
Weight (Including Antenna ⁽¹⁾): 27 Kg (60 lbs)

Shipping Weights & Dimensions*

Single Backpack Soft Case :
Size: 89 × 43.2 × 38.1 cm (35.0" × 18.5" × 17.0")
Weight (Including Antenna ⁽¹⁾): 21Kg (46.2 lbs)

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

Ku-Band (Linear)

Transmit Power	1 to 200 watt	
Feed	2 Port XPol	
	Receive	Transmit
Frequency (GHz)	10.70- 12.75	13.75 - 14.50
Feed Interface	WR75	WR75 ⁽²⁾
Midband Gain (± .2 dBi)	38.30	39.60
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	1.3:1	1.3:1

Ka-Band (Circular)

	Receive	Transmit
Operating Frequency (GHz)	19.20 - 21.20	29.0 - 31.0
Midband Gain (± .2dBi)	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	7.90 - 8.40
Midband Gain (± .5dB)	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

Notes:

⁽¹⁾ Weight indicated does not include BUC, LNB and Cables

⁽²⁾ Maximum BUC dims supported: 3.9 cm x 3.9 cm x 1.7 cm; 0.5Kg;
Larger BUCs must use quick disconnect flex waveguide