

## The MP Man-Pack terminal has been designed for Secure Voice Communication, High Data Rate IP Traffic and HD Video Applications.

The single cased terminal will include the latest IP satellite modem technology, operating in QPSK and 8PSK modulation schemes.

Positioning sensors including GPS antenna, Magnetometer with pitch and roll feed-back, and inclinometer are also included for very accurate real-time positioning data used for the Manual Pointing Aid Device (MPAD) pointing assistance system ensuring fast simple and accurate alignment to the satellite by any operator.

- 60cm, 80cm, 1.0m reflector options
- Lightweight, high power IP terminal
- Weatherproof complete system
- Up to 55W terminal power
- Full Ku-Band operation
- Integrated IP modem
- No-tools assembly
- Single soft-case unit (under 19kg)
- Pointing assist with GPS, electronic compass and inclinometer
- Fine adjustments on all axis
- X-Band, Ku-Band and Ka-Band

The MP60 Man-Pack can be powered from either AC mains (110-240 VAC) or direct from a DC source, we also have a battery pack option for our lower power terminals.

The power distribution provides all interconnectivity to all the internal subsystems including Modem, WiFi, GSM router, ethernet switch and pointing aid.



## MP60 Antenna Specifications

Antenna type	0.6m
Azimuth range (Fine)	+/- 25°
Elevation range	0° to 90°
Operating temp	-32°C to +50°C
Operating humidity	95% RH
Operational wind speed	60km/hour (with ballast)
Storage Temperature	-40°C to +60°C
IP Interface	Weatherproof RJ45 connector
RX Monitor	SMA (female)
DC in (24v)	Weatherproof (battery option)
IP Modem	iDirect, Newtec, Teledyne, Q-Flex, UHP
Terminal Weight	under 20kg with soft cases
Packing options	Backpack, hard case

### Ku-Band

Polarisation range	+/- 90°
Transmit Frequency	13.75GHz to 14.5GHz
Receive frequency	10.95GHz to 12.75GHz
EIRP (25W BUC)	51.0dBW
EIRP (16W BUC)	48.9dBW
EIRP (8W BUC)	45.8dBW
Tx Gain	37.2dBi
Rx Gain	35.7dBi
Tx / Rx Isolation	35dB

### Ka-Band

TX Frequency	29.0-31.0GHz
RX Frequency	19.2-21.2GHz
Gain TX	43.2 dBi
Gain RX	40.2 dBi
Circular Axial Ratio	<0.75 dB
Isolation	>55 dB
TX/RX Port VSWR Tx	<1.25:1

### X-Band

TX Frequency	7.9 to 8.4GHz
RX Frequency	7.25 to 7.75GHz
Gain TX	32.7 dBi
Gain RX	32.1 dBi
Pol	2 port
Circular Axial Ratio	<0.75 dB
Isolation	>23
TX/RX Port VSWR	<1.25:1
BUC Power	40W

### Case Contents

1. Main terminal body with integrated IP modem, elevation head, tripod, GPS
2. Outer reflector petals
3. PSU
4. MPAD
5. Feed

