



## PMA-120

The PMA-120 is a compact and lightweight Manpack Antenna solution ideally suited to the worldwide SNG market. It is easy to use and deploy. It can easily be transported in IATA weight compliant, rugged flight cases. Due to its modular design, no tool or special training is required for the installation.

The PMA-120 antenna is a prime focus antenna system including a 8 segmented 1.20m parabolic main reflector, a quick-install feed-arm, feed-horn system and Carbon-Fiber tripod support system. Reflector surface provides remarkably low sidelobes and excellent cross-polar performance for the antenna. The feed-horn system is available for Ku, Ka, X, C and Band as an option.

### Design to Meet Military Version Only

- MIL-STD-810G Compliant
- MIL-STD-461F Compliant
- MIL-STD-1472 Compliant
- MIL-STD-188-164A Compliant
- ITU-RS-580 Compliant
- ITU-RS-465-6 Compliant

## Key Features

- Ku, Ka, X and DBS Band
- Prime focus antenna with 8 segments reflector and feed system
- User friendly - no need for technical personnel
- Broadcast position within ~ 3 minutes  
Carbon-Fiber reflector
- Carbon-Fiber tripod support legs High resistance for toughest weather conditions (wind, rain, sun...)
- Optional De-Ice
- Optional Motorization Kit
- Motorized & Manual versions are available
- Military version is available





## GENERAL SPECIFICATIONS

|                    |   |           |
|--------------------|---|-----------|
| Reflector Diameter | 1.2m  |           |
| Reflector Type     | Offset  |           |
| Setup Time         | ~3 Minutes  |           |
| Antenna Concept    | Prime focus antenna with 8 segmented 1.2m reflector |           |
| Number of Cases    | 1 Case (Manual Version)                             |           |
| Antenna Travels    | AZ  | 360°      |
|                    | EL  | Up to 90° |
|                    | POL   | ± 90°     |

## RF CHARACTERISTIC

|                               |    | Ka-Band  | Ku-Band             | X-Band             |
|-------------------------------|----|--|---------------------|--------------------|
| Frequency (GHz)               | Tx | 27.50 - 31.00  | 13.75 - 14.50       | 7.90 - 8.40        |
|                               | Rx | 17.70 - 21.20  | 10.7 - 12.75        | 7.25 - 7.75        |
| Antenna Gain (±0.2 dBi)       | Tx | 46.2+20log(f/30)                                       | 42.5+20log(f/14.15) | 37.7+20log(f/8.15) |
|                               | Rx | 43.0+20log(f/19.00)                                    | 41.8+20log(f/12.50) | 37.0+20log(f/7.50) |
| Polarization                  |    | Circular   | Linear              | Circular           |
| TX/RX Isolation               |    | 85 dB  |                     |                    |
| Satellite Operator Compliancy |    | Compliant with most of satellite operator requirements |                     |                    |
| VSWR                          |    | 1.3  | 1.5                 | 1.5                |
| Cross Polar Rejection         |    | >35 dB within 1 dB beamwidth                           |                     |                    |

## ENVIRONMENTAL SPECIFICATIONS

|             |                              |               |                     |
|-------------|------------------------------|---------------|---------------------|
| Temperature | Operational                  | -30°C to 55°C |                     |
|             | Survival                     | -40°C to 70°C |                     |
| Wind Speed  | Operational                  | 40 km/h       | (Optional) 72 km/h  |
|             | Survival                     | 70 km/h       | (Optional) 120 km/h |
| Rain        | Survival in heavy rainstorm  |               |                     |
| Humidity    | Up to 100% with condensation |               |                     |

Compliances / Certificates



Would you like to get more information?

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