

PROFEN

PTA-120M Auto-point Transportable Antenna



PROFEN's PTA-120M is a motorized transportable (Fly-away) satellite antenna designed for quick deployment and operation in VSAT applications. It is equipped with Profen's PAC750 series antenna control unit (ACU) with auto-acquisition, auto-peaking and satellite identification features to point the antenna to the predefined satellite.

With an ultra-robust motorized pedestal and lightweight high-performance carbon-fiber reflector, the antenna is an ideal choice for Disaster Relief, Emergency Communications, Corporate Networks, and Military satellite communications.

Key Features

- Highly robust mechanical structure
- Easy to install and operation (< 15 min)
- Lightweight six-piece carbon-fiber Reflector
- One button auto-pointing and alignment
- Manual dive option with angular indicators on each axis
- Tool free installation
- Military type carrying cases

Typical Applications

- Broadband Internet in rural area
- Emergency communication from disaster area
- Corporate network extension via satellite
- Outdoor Broadcast
- Homeland Security mobile satcom

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RF SPECIFICATIONS

Rx Frequency Range (GHz)	10.7 – 12.75	Antenna Noise Temperature	46K @ 30° EL
Tx Frequency Range (GHz)	13.75-14.5 (12.75-14.5 option)	Cross-Pol Isolation (dB)	-30 dB on axis as std. -35 dB (optional)
Polarization	Linear Orthogonal Optional Co-Pol	VSWR Tx to Rx Isolation	1.35:1 80 dB
G/T @ mid-band and 20° EL	21.3 dB/K w/50K LNA	Side Lobe Performance Power Handling Capability	ITU-R S.580-6 500W per port
Tx Gain (mid-band) (dBi)	42.8 dBi		
Rx Tx Gain (mid-band) (dBi)	41.5 dBi		

ENVIRONMENTAL SPECIFICATIONS

Temperature range		Wind Performance	
Operational	-30 to +60 °C	Operational	50 kph
Survival	-40 to +70 °C	Survival	100 kph (Stowed)
Rainfall	Max 100mm/h	Altitude	
		Operational	3000m
		Survival	4000m
Humidity	100% non-Condensing		

MECHANICAL SPECIFICATIONS

Antenna Size	1.2m	Antenna Type	Prime focus off-set
Reflector	6 pcs segmented Carbon Fiber	Mount	EL over AZ tripod
Axis Travel		RF Interfaces	WR-75 Cover (UBR)
Azimuth	+/- 180°		
Elevation	10° to 90°		
Polarization	±100° for 2-port feed		
		Cases	Military type two plastic cases
Color	White (other colors optional)		
		Cases Weight	2x 32kg

MECHANICAL SPECIFICATIONS

Features	PROFEN's PAC750 series ACU controls the antenna and provides auto-acquisition and auto-peaking functions to automatically point the antenna to the predefined satellite. It can automatically align the polarization with the help of an integrated DVB-S/S2 receiver.
ACU Orientation	ACU is an integrated part of the tripod of the antenna with an LCD and keypad on the front together with three multi-function buttons for quick operation.
Power Requirement	External power adaptor 85 – 265 VAC, 45-65 Hz, 300W

How to Buy?

To view buying options and speak with Profen sales representatives, contact marketing@profen.com



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