

PROFEN

PTA-130M Auto-point Transportable Antenna



PROFEN's PTA-130M 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 installation (< 10 min)
- Lightweight six-piece carbon-fiber reflector
- One button auto-pointing and alignment
- Manual drive 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	45K @ 30° EL
Tx Frequency Range (GHz)	13.75-14.5	Cross-Pol Isolation (dB)	>30 dB typical
Polarization	Linear Orthogonal	VSWR	< 1.5:1
G/T @ mid-band and 20° EL	21.3 dB/K w/50K LNA	Tx to Rx Isolation	85 dB
Tx Gain (mid-band) (dBi)	43.8 dBi	Side Lobe Performance	ITU-R S.580-6
Rx Gain (mid-band) (dBi)	41.8 dBi	Power Handling Capability	500W per port

ENVIRONMENTAL SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS

Antenna Size	1.3m	Antenna Type	Parabolic
Reflector	8 pcs segmented Carbon Fiber	Mount	EL over AZ tripod
Axis Travel		RF Interfaces	WR-75 Cover (UBR)
Azimuth	+/- 180°	Case	Military type plastic or soft cases
Elevation	10° to 90°		
Polarization	±100° for 2-port feed		
Color	White (other colors optional)	Cases Weight	3x 26kg

ANTENNA CONTROL UNIT (ACU)

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?



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