



## PTA-100Ku Transportable Antenna

PROFEN's PTA-100Ku is a transportable (Fly-away) satellite antenna in Ku-Band designed for quick deployment and operation in Broadcast SNG, and VSAT applications.

The antenna structure with ultra-robust aluminum mount and lightweight high-performance carbon fiber reflector makes it an ideal choice for Disaster Relief, Emergency Communications, Corporate Networks, and Military satellite communications since it can be easily deployed for a quick operation, even in harsh environment.

### Typical Applications

- ❖ Broadband Internet in urban and rural area
- ❖ Emergency communication from disaster area
- ❖ Corporate network extension via satellite
- ❖ Satellite News Gathering (SNG) for broadcast
- ❖ Homeland Security mobile satcom

### Key Features

- Portable & rigid mechanical structure
- 9 pieces carbon-fiber reflector
- Aluminum tripod structure
- Angular indicators on each axis
- Quick-click feed flange
- Support various type of transceiver/BUC
- Easy and tool free installation (<10min)
- Unique reflectors with latch mounting
- Total weight 20 kg (without cases)
- IATA complied carrying cases

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### RF SPECIFICATIONS

<b>Rx Frequency Range</b>	10.70--12.75 GHz	<b>Antenna Noise Temperature</b>	40K @ 20° EL
<b>Tx Frequency Range</b>	13.75--14.50 GHz	<b>Cross-Pol Isolation</b>	>30 dB on axis
<b>Polarization</b>	Linear Orthogonal Optional Co-Pol	<b>VSWR</b>	1.35:1
<b>G/T @ mid-band and 20° EL</b>	20.6 dB/°K w/50K LNA	<b>Side Lobe Performance</b>	ITU-R S.580-6
<b>Tx Gain (mid-band) (dBi)</b>	41.6@14.25 GHz	<b>Power Handling Capability</b>	500 W per port
<b>Rx Tx Gain (mid-band) (dBi)</b>	39.9@11.70 GHz		

### ENVIRONMENTAL SPECIFICATIONS

<b>Temperature range</b>		<b>Wind Performance</b>	
<b>Operational</b>	-30 to +60 °C	<b>Operational</b>	60 kph (if it is fixed to the ground)
<b>Survival</b>	-40 to +70 °C	<b>Survival</b>	100 kph (Stowed)
<b>Rainfall</b>	Max 100mm/h	<b>Altitude</b>	4000m
<b>Humidity</b>	100 % Non-Condensing		

### MECHANICAL SPECIFICATIONS

<b>Antenna Size</b>	1.0 m	<b>Antenna Type</b>	Parabolic, Splash plate sub-reflector
<b>Reflector</b>	9 pcs segmented Carbon Fiber	<b>Mount</b>	EL over AZ tripod
<b>Axis Travel</b>			
<b>Azimuth</b>	± 25° (for fine tuning)		
<b>Elevation</b>	0° to 90°		
<b>Color</b>	White as standard (other colors optional)	<b>Weight</b>	32kg, IATA complied
		<b>Carrying Cases</b>	hard or soft cases
<b>RF Interface</b>	Rx: WR75 Tx: WR75		



\*Specification of the antenna is subject to change without any notice