

## FlyAway Manual ANTENNA 0.9 METERS Ku Band

TY series flyaway antenna is a high performance, high environment adaptivity satellite antenna dedicated to emergency wideband communications. Antenna has a light weight and it is available for multiple transportations. Antenna set uses modular design, with reliable structural strength, easy operated without professional tools. It can better finish high difficulty task in various environment. Antenna can be used for all domestic & international Ku&Ka band communication satellite



### **Product feature:**

- The total weight of the antenna set less than 10Kg
- Azimuth & elevation angle adjustment realizes fast and fine tuning functions, it rapidly decreases the satellite acquisition period.
- Non professional personnel can easily follow the instruction to finish satellite acquisition.
- No additional tools required.
- Reflector uses carbon fiber material, (it dominates 50% of the antenna set ),it has the features of high strength and light weight.
- Antenna set realizes easy deploy/stow , only reflector needs assembly/dismantle

**Application field:** Emergency communications of counter-terrorism, nature disasters; TV live broadcasting, measurement & monitoring ,government emergency communications, civil defense, news & media, mobile communication operator, public security, fire control, border defense, military, enterprises and institutions, etc

RF feature		
Reflector aperture		0.9m(1*0.95m)
Reflector material		Carbon fiber
Reflector type		offset
Work frequency	Rx(GHz)	10.95 ~ 12.75
	Tx(GHz)	13.75 ~ 14.5
Gain	Rx(dBi)	39
	Tx(dBi)	40
VSWR	Rx	1.3
	Tx	1.3
Rx/Tx isolation	Rx	> 40dB
	Tx	> 85dB
Sidelobe		First sidelobe < -14 dBi 29-25log $\theta$ ( $1^\circ \leq \theta < 20^\circ$ ) 32-25log $\theta$ ( $20 \leq \theta < 48^\circ$ ) -10 dBi ( $\theta \geq 48^\circ$ )
Power capacity (W)		200
Polarization		Linear
Cross polarization		$\geq 33\text{dB}$ ( Axis) ; $\geq 30\text{dB}$ (-1 dB beamwidth)
Interface		WR-75
Mechanical feature		
Antenna stowed dimension	600×400×180 (length×width×height)	
Weight	<10Kg (Exclude BUC)	
Slewing area (Azimuth)	360°	
Slewing area (Elevation)	10° ~ 90°	
Slewing area (Polarization)	±95°	
Work windload	10m/s (Random) 18m/s (with anchoring unit)	
Temperature	- 40°C ~ + 55°C	
Humidity	100%	