



# Carbon fiber, Flyaway Antenna Ka-Band, 0.75m



## Applications:

Disaster recovery  
Public security  
Coverage for remote areas  
Field operations



## Features

Single Offset Antenna

With Azimuth & Elevation adjustments

- Carbon fiber reflector:
- Light weight, high precision and high efficiency.
- Lightweight and portable, for rapid deployment
- Install within 5 minutes (by 1 person),
- Ships as airline baggage.

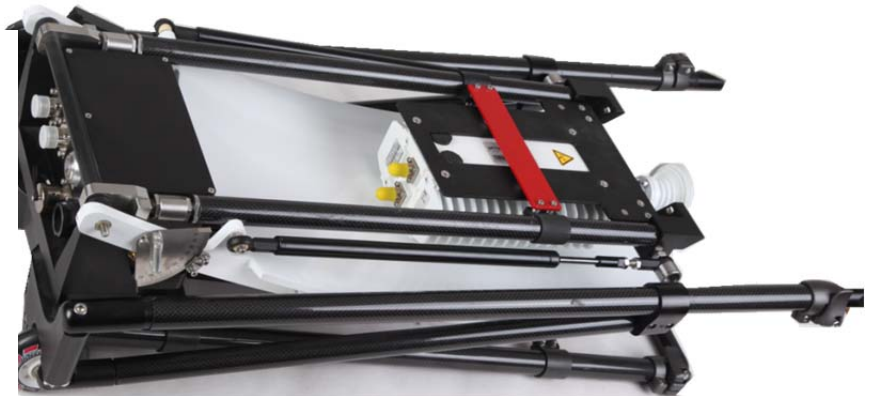
**Order Examples:** RANT-Ka-CF-Flyaway-0.75m-manual-k20

**Description:** (Antenna, Ka-band, Carbon Fiber reflector, 0.75 Meter, Manual)

Specifications	
Antenna Aperture (Surface size)	0.75m (0.9 x 0.66m)
Antenna Optics	Prime Focus
Frequency	Rx 18.3 to 20.2 GHz Tx 28.1 to 30.0 GHz
Gain(dBi $\pm$ 0.3)	Rx 41.6dB @ 19.70 GHz Tx 45.1dB @ 29.75 GHz
Noise Temperature	40K (for 20° Elevation at 19.7GHz)
VSWR	Tx <1.3: 1 Rx <1.3: 1
Sidelobe Envelope	29-25log $\emptyset$ dBi      0° $\leq$ $\emptyset$ $\leq$ 20° -3.5 dBi              for 20° < $\emptyset$ $\leq$ 26.3° 32-25log $\emptyset$ dBi      for 26.3° < $\emptyset$ $\leq$ 48°
Polarization	Tx: Circular RH or LH Rx: Circular RH or LH
Cross Polarization	$\geq$ 22dB (within 1 dB BW)
Reflector Material	Carbon Fiber
Segmentation	4 petals
Net Weight	18Kg (with petals, 3W Skyware TRIA)
Packing Dimensions	800mm (L) x 330mm (W) x 400mm (H)
Packing Weight	23Kg

## Carbon fiber, Flyaway Antenna, Ku-Band, 0.75m, Manual Alignment

Specifications	
Azimuth Range	$\pm 90^\circ$
Elevation Range	$10^\circ$ to $90^\circ$
Azimuth Travel speed	0.01 to $4^\circ/\text{S}$
Elevation Travel speed	0.01 to $2^\circ/\text{S}$
Wind Loading	48 km/h (operational)
Operational Temperature	$-30^\circ$ to $+60^\circ\text{C}$
Stowing Temperature	$-40^\circ$ to $+70^\circ\text{C}$
Humidity	RH: 0% to 100%
Rain	$\leq 100$ mm/h



Showing as a compact stowed structure (upper right)  
Fits into compact backpack/carry case (right)  
Comfortably stowed in the back pack (above).