



0.9 m KU Band Manual Flyaway Antenna

## Feature

AST 0.9m Ku band manual flyaway antenna system are designed to provide high speed stow and deploy through its simple and robust structure and light weight material.

The main supporting structure of the antenna is made of carbon fiber material. The whole antenna system is 90% carbon fiber. The material is more stable, lighter weight, higher strength and more convenient for portable use.

The antenna has the characteristics of high gain, low sidelobe, superior electrical performance and communication capability of not less than 40W.



Email: [sales@allseeingtech.com](mailto:sales@allseeingtech.com)  
 WEB: [www.allseeingtech.com](http://www.allseeingtech.com)



Tel: (+86)29-8886-0263  
 Cell: (+86)177-2929-5262

## RF PERFORMANCE SPECIFICATION

Model	FA90-KU	
Antenna Aperture		0.9m
Ring Focus		
Operation frequency	Tx	13.75-14.5GHz
	Rx	10.7-12.75GHz
Gain	Tx	40.3+20lg(f/14.25)dB
	Rx	39.5+20lg(f/12.50)dB
Polarization	Linear	
VSWR	1.25:1	
Feed Interface	WR75	
Feed Insertion loss	0.2 dB	
Port to port isolation		
Rx to Tx :dB	≥85dB (Input)	
Tx to Rx :dB	≥40dB(≥ 40 dB(Amplifier output)	
Sidelobes	-14 dB (first side lobe )	
MECHANICAL SPECIFICATION		
Materials of Reflector	Carbon Fiber	
Antenna Pointing Range		
Elevation	0°--90°(Continuous)	
Azimuth	360°(Continuous)	
Polarization	+/-90°	
ENVIRONMENTAL SPECIFICATION		
Temperature	- 40°C--+60°C	
Solar Radiation	Humidity requir 1000kcal/hm <sup>2</sup>	
Operational Wind Speed	11m/s with ballasts	
Survival Wind Speed	18m/s with ballasts	
Humidity requirement	Not more than 95%(20 ° C)	
Protection Grade	IP65	

## Packing size and weight

Item	Packing Details	Packing Size (mm)	Net Weight	Packing Weight
1	Black backpack	≤ 680×470×550	≤ 11	≤ 16
2	Wood case	≤ 730×520×620	≤ 16	≤ 36

## Packing list

Item	Packing Material	Part Name	Qty	Remark
1	Backpack	Antenna support	1 set	≤ 16
2		Antenna adjustment assembly	1 set	Without BUC, LNB
3		Reflector	7 pcs	
4		Feed	1 set	Sub-reflector included
5		Ground nail	3	