

SFA200-120 DIAMOND FLY-AWAY ANTENNA

- Robust
- High Performance
- Powerful
- 120 cm Offset Reflector
- Efficient
- Easy to mount
- Designed for Ku, Ka, DBS, C, X band uplink
- Compliant with IATA standard



The 1.2 Meter Non-Motorized Fly-Away Antenna from SVS is highly portable, compact, lightweight, and can be assembled by one person in less than 5 minutes. The antenna features a 4-piece glass fiber reinforced reflector with compact pedestal and is designed to be value priced while providing exceptional performance in a lightweight package.

The elevation-over-azimuth pedestal provides excellent stiffness characteristics and convenience for the user when pointing and peaking on a satellite. The antenna packs in 2 ruggedized shipping cases.



ANTENNA OPTIONS

- ADDITIONAL OUTDOOR CARRYING CASE FOR OTHER VSAT/BROADCAST EQUIPMENTS
- 3- PORT FEED
- 7/24 REMOTE SUPPORT SERVICE OPTION
- ON SITE PREVENTATIVE MAINTENANCE SERVICE OPTION
- ON SITE COMMISSIONING SERVICE OPTION

SFA200-120 DIAMOND FLY-AWAY ANTENNA

RF SPECIFICATIONS	Transmit	Receive
Frequency Band	13.75-14.5 GHz	10.95-12.75 GHz
Polarization	Linear Orthogonal	Linear Orthogonal
Antenna Gain	43.6 dBi	42.2 dBi
Antenna Noise Temperature	-	48°K el; 10°
Cross Polarization	<-35 dB within 0.3° boresight <-30 dB within co-polar pattern relative to co-polar peak	<-35 dB on boresight
($\theta=90^\circ$)	1.8° < θ < 4.0° @25-25 log θ dBi	1.8° < θ < 35.0° @29-25 log θ dBi
Off Axis Gain	4.0° < θ < 20.0° @23-25 log θ dBi	35.0° < θ < 130.0° @-10 dBi
($\theta=0^\circ$)	20.0° < θ < 130.0° @-10 dBi	130.0° < θ < 180.0° @+5 dBi
VSWR	1.3:1 Max	-
Feed Interface	WR-75	WR-75
Isolation	>40 dB	>40 dB, excluding Tx reject filter
Filter Rejection	Transmit Reject > 70 dB	
MECHANICAL SPECIFICATIONS		
Antenna Geometry	Offset Front Feed	
Antenna Reflector Effective Aperture	Diagonal: 1.5 m, Across Flat: 1.2 m	
Ports	2 (optionally 3 port)	
Elevation Range	0°-90°	
Azimuth Range	±180°	
Polarization Range	±92°	
Reflector Material	Carbon Fiber, Four-piece "Diamond" shaped reflector, 1.2 m across-flats. The reflector is manufactured in carbon-fiber with a honeycomb center. All external surfaces primed and finished in two-pack polyurethane white paint	
ENVIRONMENTAL SPECIFICATIONS		
	Operational	Survival
Wind Load	50 km/h (Up to 60 km/h by increasing the weight used for anchorage)	60 km/h (stowed)
Ambient Temperature	-30°C to +60°C	-40°C to +70°C
Humidity	0% - 100%	0% - 100%