



# SVS SATELLITE SYSTEMS



## SFA200-100 DIAMOND FLY-AWAY ANTENNA



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

The 1.0 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

- W/G CROSSOVER KIT UP TO THE FEED ARM
- 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



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# SFA200-100 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	42 dBi	40.5 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
( $\theta=90^\circ$ )	2.1°< $\theta$ <15.0° @19-25 log $\theta$	2.1°< $\theta$ <35.0° @29-25 log $\theta$
Off Axis Gain	15.0°< $\theta$ <130.0° @-10 dBi	35.0°< $\theta$ <130.0° @-10 log $\theta$
( $\theta=0^\circ$ )	130.0°< $\theta$ <180.0° @0 dBi	130.0°< $\theta$ <180.0° @+5 log $\theta$
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	
<b>MECHANICAL SPECIFICATIONS</b>		
Antenna Geometry	Offset Front Feed	
Antenna Reflector Effective Aperture	Diagonal: 1.2 m, Across Flat: 1.0 m	
Ports	2 (optionally 3 port)	
Elevation Range	0°-90°	
Azimuth Range	±180°	
Polarization Range	±92°	
Size	Hard Case: 72x62x25 cm Soft Case: 58x57x23 cm	
Weight	32 kg including carrying case	
Reflector Material	Carbon Fiber, Four-piece "Diamond" shaped reflector, 1.0 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	
<b>ENVIRONMENTAL SPECIFICATIONS</b>		
	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%