

SVS SATELLITE SYSTEMS

SFA200-100 DIAMOND FLY-AWAY ANTENNA

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

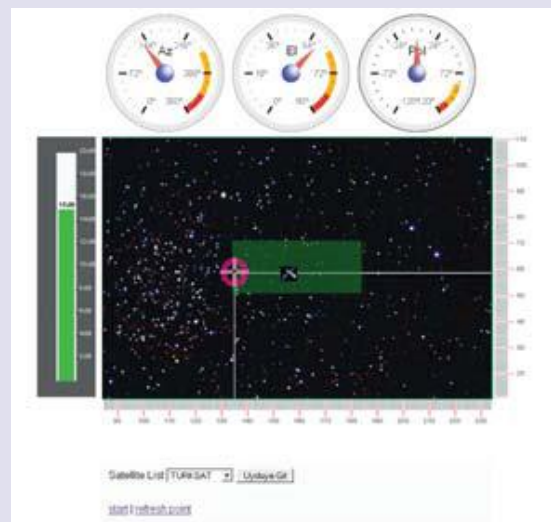


SVS SFA200-100 Diamond Carbon Fiber is a high performance, powerfull and efficient Fly Away Antenna System that is designed for uplink operations of broadcasters and data operators. It is designed as a reliable system against heavy duty conditions and operations in the field during many years.

SFA200-100 Diamond Carbon Fiber Antena is an easy to set up system so that it can be set up with in 5 minutes.

SVS SFA200-100 helps operator to find satellite accurately thanks to GPS, Compas, Inclonometer and DVB Tuner Card coming with it. Instead of motors, operator can find the desired satellite by adjusting to antenna reflector by looking to the computer screen. When satellite is found, the software warns you that it is "locked". The software also provides audio visual alarms.

- Azimuth Sensor
- Polarization Sensor
- Elevation Sensor
- Proximity, Optional Resolver
- Potentiometer, Optional Resolver
- Clinometer, Optional Resolver



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SFA200-100 DIAMOND FLY-AWAY ANTENNA

RF SPECIFICATIONS

	Transmit	Recive
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	<-35 dB on boresight
	<-30 dB within copolar pattern relative to co-polar peak	
Off Axis Gain	$2.1^\circ < \theta < 15^\circ$ @ 19-25 log θ $15.0^\circ < \theta < 130.0^\circ$ @ -10 dBi $130.0^\circ < \theta < 180.0^\circ$ @ 0 dBi	$2.1^\circ < \theta < 35^\circ$ @ 29-25 log θ $35.0^\circ < \theta < 130.0^\circ$ @ -10 log θ $130.0^\circ < \theta < 180.0^\circ$ @ +5 log θ
	($\theta=90^\circ$)	($\theta=0^\circ$)
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: 1.2 m, Across Flat : 1.0 m
Ports	2 (optionally 3)
Elevation Range	0°-90°
Azimuth Range	±180
Polarization Range	±92°
Sizes	Hard Case: 72x62x25 Soft Case: 58x57x23
Weight	32 kg including carrying case
Reflector Material	Carbon Fiber, Four-piece segmented "Diamond" shaped reflector, 1.0 m across-flats. The reflector is manufactured in carbonfiber with a honeycomb centre. All external surfaces primed and finished in two-pack polyurethane white paint

ENVIRONMENTAL SPECIFICATION

	Operational	Survival
Wind Load	60km/h	140 km/h(stowed)
Ambient Temperature	-30°C to.+ 60°C	-40°C to 70°C
Humidity	%0 - %100	%0 - %100

