



SVS SATELLITE SYSTEMS



SFM200-120 FLY-DRIVE ANTENNA

- 120cm offset carbon fiber reflector
- 4 pcs. segment motorised flyaway antenna
- Fast and accurate auto pointing
- Designed for Ku, Ka, DBS, X Band applications
- Web based, user friendly GUI
- One touch auto pointing operation
- Automatic positioning in all 3 axes and simultaneous movement capabilities
- Speed levels up to 255 steps
- Satellite user list (DVBS/S2 reference carrier)
- Automatic compass error correction
- 0.1 degree satellite peaking sensitivity
- Can be used either as a flyaway or driveway antenna system



The SFM200-120 Antenna is a 1.2m highly portable, self-pointing, auto-acquire unit that is configurable with the Pointsant Controller and can be assembled in less than 8 minutes by one person. The one button auto acquisition controller locates and precisely aligns the antenna in all three axis (azimuth, elevation AND polarization) to the required satellite. The antenna features a 4-piece carbon fibre reflector with compact pedestal and is designed to be cost-effective while providing exceptional performance in a light weight package. The flight cases are within certain dimensions, as covered by the IATA regulations on the dimensions of packaging cases and rugged enough to withstand the rigours of international air transport.



ANTENNA OPTIONS

- ADDITIONAL OUTDOOR CARRYING CASE FOR OTHER VSAT/BROADCAST EQUIPMENTS
- ACCESS POINT FOR POINTSAT
- DVB-S/S2 TUNER AND SPECTRUM VIEWER
- GPS-COMPASS
- 3 PORT FEED
- 7/24 REMOTE SUPPORT SERVICE OPTION
- ON SITE PREVENTATIVE MAINTENANCE SERVICE OPTION
- ON SITE COMMISSIONING SERVICE OPTION



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SFM200-120 FLY-DRIVE ANTENNA

RF SPECIFICATIONS		Transmit	Recive
Frequency Band		13.75-14.5 Ghz	10.95-12.75 Ghz
Polarization		Linear Orthogonal	Linear Orthogonal
Antenna Gain		43.6 dBi at W/G output of filter(11.7 Ghz)	42.2 dBi at W/G output of filter(14,0 Ghz)
Cross Polarization		<-35 dB within 0.3° boresight	<-35 dB on boresight
In Azimuth Plane ($\theta=90^\circ$)		19-25 log θ dBi 1,8° < θ < 4.0°	29-25 log θ dBi 1,8° < θ < 35.0°
Off Axis Gain		-10 dBi 20.0° < θ < 130.0°	-10 dBi 35.0° < θ < 120.0°
In Elevatiin Plane ($\theta=0^\circ$)		29-25 log θ dBi 1,8° < θ < 35.0°	+5 dBi 120.0° < θ < 180.0°
		-10 dBi 35.0° < θ < 130.0°	
VSWR		1:3:1 Max	-
Isolation		>40 dB, excluding Tx reject filter	>35 dB
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)	
Elevation Range		10°-70°	
Azimuth Range		±181°	
Polarization Range		±95°	
Sizes		Main case: Hardcase 73x73x31 cm Reflector case: Softcase 73x72x23cm Feed case: Softcase 147x37x18cm	
Weight		Main case : Hardcase 32 kg Reflector case : Softcase 17 kg Feed case: Softcase 23 kg	
Reflector Material		Carbon Fiber, Four-piece segmented "Diamond" shaped reflector, 1.2 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		40km/h	60 km/h
Ambient Temperature		-20°C to.+ 50°C	-40°C to 60°C
Humidity		%0 - %100	%0 - %100