

# SVS SATELLITE SYSTEMS

## SFM200-100 FLY-DRIVE ANTENNA

- 100cm 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 driveaway antenna system



The SFM200-100 Ka Antenna is a 1.0m highly portable, self-pointing, auto-acquire unit that is configurable with the Pointsant Controller and can be assembled in less than 5 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-pieces carbon fiber 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 regours 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

# SFM200-100 Ka FLY-DRIVE ANTENNA

RF SPECIFICATIONS	Transmit	Recive
Frequency Band	27.5-30.0 Ghz	
Polarization	Circular Orthogonal	
Antenna Gain	47.6 dBi at W/G output of OMT (30.0 GHz)	
Off Axis Gain	For 90% of all sidelobes the antenna gain in a direction away from boresight is within the envelope	2 dB at OMT port
Axial Ration on boresight		
VSWR	1:3:1 Max	-
Isolation	>40 dB, excluding Tx reject filter	40 dB
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	10°-70°	
Azimuth Range	±181°	
Polarization Range	±95°	
Sizes	Main case: Hardcase 58x58x30,5cm Reflector case: Softcase 58x57x23cm Feed case: Softcase 132x35x17cm	
Weight	Main case : Hardcase 32 kg Reflector case : Softcase 15 kg Feed case: Softcase 21 kg	
Reflector Material	Carbon Fiber, Four-piece segmented "Diamond" shaped reflector, 1.0 m across-flats. The reflector is manufactured in carbon fiber 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