

SVS SATELLITE SYSTEMS

SFM200-100 FLY-DRIVE ANTENNA

- 100cm offset carbon fiber reflector
- 4 pcs. segment motorised flyaway antenna
- Fast and accurate auto pointing
- High performance, powerful, efficient
- Designed for Ku, Ka, DBS, X Band applications
- Drive control housed in main antenna case
- Can be used either as a flyaway or driveway antenna system
- Easy to mount



SFM200 Diamond carbon fiber antenna is a high performance, powerful, and efficient fly-drive 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.



Product Overview

The SFM-200-100 FlyDrive Antenna is the newest antenna solutions for satcom and broadcaster operators. SVS Telekom has made its FlyDrive antenna as easy as possible to operate. It offers full 3-axis motorised control with manual backup, satellite auto acquisition and tracking system. The SFM-200 can be fixed easily to all of the vehicle with standard fittings.

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.

SOFTWARE CAPABILITIES

- Fast and accurate auto pointing
- Web based, user friendly GUI.
- One touch auto pointing operation
- Satellite user list (DVBS/S2 reference carrier)
- Integrated spectrum analyzer
- Speed levels up to 255 steps
- Automatic compass error correction
- Parametrically soft start/stop movement capabilities
- Sensitive manual control over web page or pc software interface
- Automatic positioning in all 3 axes and simultaneous movement capabilities
- Provider channel name decoding and representing in user interface for relevant carrier



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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 at W/G output of filter(14 GHz)	40.5 dBi at W/G output of filter(11.7 GHz)
Cross Polarization	<-35 dB within 0.3° boresight	<-35 dB on boresight
In Azimuth Plane ($\theta=90^\circ$)	19-25 log θ dBi 2.1° < θ < 15.0° -10 dBi 15.0° < θ < 130.0°	29-25 log θ dBi 2.1° < θ < 35.0° -10 dBi 35.0° < θ < 120.0°
Off Axis Gain		
In Elevatiin Plane ($\theta=0^\circ$)	29-25 log θ dBi 2.1° < θ < 35.0° -10 dBi 35.0° < θ < 130.0°	+5 dBi 120.0° < θ < 180.0°
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 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
Ambient Temperature	-20°C to.+ 50°C	-40°C to 60°C
Humidity	%0 - %100	%0 - %100

