

SVS SATELLITE SYSTEMS

SFM200-120 FLY-DRIVE ANTENNA

- 120cm offset carbon fiber reflector
- Diamond shape offset carbon fiber reflector
- 4 pcs. segment motorised flyaway antenna
- High performance, powerful, efficient
- Designed for Ku, Ka, DBS, X Band applications
- Fast and accurate auto pointing
- 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 flydrive 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 SFM200-120 FlyDrive Antenna is the newest antenna solutions for satcom and broadcaster operators. SVS Telekom has made its Fly-Drive 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.

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	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° -10 dBi 20.0° < θ < 130.0°	29-25 log θ dBi 1,8° < θ < 35.0° -10 dBi 35.0° < θ < 120.0°
Off Axis Gain		
In Elevatiin Plane ($\theta=0^\circ$)	29-25 log θ dBi 1,8° < 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	>35 dB
Filter Rejection	Transmit Reject >70 dB	

MECHANICAL SPECIFICATIONS

Antenna Geometry

Antenna Reflector Effective Aperture	Offset Front Feed Diagonal: 1.5 m, Across Flat : 1.2 m
Ports	2 (optionally 3)
Elevation Range	10°-70°
Azimuth Range	$\pm 181^\circ$
Polarization Range	$\pm 95^\circ$
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	60km/h	140 km/h
Ambient Temperature	-20°C to.+ 50°C	-40°C to 60°C
Humidity	%0 - %100	%0 - %100

