

SVS SATELLITE SYSTEMS

SDO120 MOTORIZED SNG ANTENNA

- Designed for Ku, Ka, DBS, C, X band applications
- Simultaneously 3-axis movement
- Pointing to a Satellite with One Touch of a button
- Stow the Antenna with One Touch of a button
- Motor Current Protection and Software/Hardware limits
- Antenna Open Alarm Output for Safety
- Sold More Than 300 Units Worldwide
- GPS Data for modems
- Can be adapted for custom implementations
- Reflector lock for Heavy Duty Conditions (shock absorber)
- DVB Tuner Card for fine tuning and recognizing Satellite
- Robust Mechanic with Cogwheel Rigidity



SVS offers a complete line of Mobile Antennas, Quick Deploy Drive-Away Antennas at the best possible price. Designed with the latest technology to meet and exceed industry standards, SVS' Antenna Systems, Software and Antenna Controllers offer world-leading performance and unmatched quality. SVS' Drive-Away Antennas are easy to operate and ready to install in most vehicles. Includes auto-pointing AKS Controller and proven reliability.



ANTENNA OPTIONS

- DE-ICING OPTION UP TO 2500 W
- FULL HOUSING OPTION
- AKS SPECTRUM VIEWER OPTION
- W/G CROSSOVER KIT UP TO THE FEED ARM
- 7/24 REMOTE SUPPORT SERVICE OPTION
- ON SITE PREVENTATIVE MAINTENANCE SERVICE OPTION
- ON SITE COMMISSIONING SERVICE OPTION
- SINGLE OR REDUNDANT AMPLIFIER INTEGRATION OPTION

SDO120 MOTORIZED SNG ANTENNA

RF PERFORMANCE	
Polarization	Linear
Frequency band	10.7 ~12.75 GHz
3dB beamwidth	1.3 °
Gain @12.5 GHz	41.8 dBi
G/T (30° elevation) @12.5 GHz	21.6 dBK
Transmit:	
Polarization	Linear orthogonal
Frequency band	13.75~14.5 GHz
3dB beamwidth	1.1 °
Gain @14.25 GHz	42.5 dBi
VSWR	1.3:1 max
Isolation Rx/Tx (13,75 ~14.5 GHz)	40dB min
Isolation Tx/Rx (10,75 ~12.75GHz)	75 dB min
Copolar sidelobe envelope dBi	
2.5° < θ < 7°	29-25 log θ
7° < θ < 9.2°	-8 dBi
9.2° < θ < 48°	32-25 log θ
>48°:-10dBi	
Cross polar sidelobe envelope	
2.8° < θ < 7°	19-25 log θ
7° < θ < 9.2°	-2 dBi
Cross polarization	
	>30 dBi within the -1 dB contour

MECHANICAL SPECIFICATIONS		
Antenna Geometry	Dual Optic / Offset feed	
Antenna Reflector Effective Aperture	120 cm	
Ports	2 (optionally 3 port)	
Elevation Range	0°-70° (without housing), 10°-70° (with housing), (Up limit can be adjusted without housing up to 90°, With housing up to 80°)	
Azimuth Range	±180°	
Polarization Range	±100°	
Elevation Safety Stow Degree	Adjustable	
Weight	120 kg antenna (housing 38 kg)	
Reflector Material	Fiber Glass	
Dimensions	Max 187x132x58,5 cm (with pod)	
SPEED	Minimum	Maximum
Azimuth	0.2°/sec	2.8°/sec
Elevation	0.2°/sec	2.8°/sec
Polarization	0.35°/sec	6.6°/sec
ENVIRONMENTAL SPECIFICATIONS	Operational	Survival

Wind Load	80km/h	200 km/h(stowed)
Ambient Temperature	-20°C to +50°C	-40°C to +60°C
Humidity	0% - 100%	0% - 100%



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