

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 SPECIFICATIONS		Transmit	Receive
Frequency Band		13.75-14.5 GHz	10.7-12.75 GHz
Polarization		Linear Orthogonal	Linear Orthogonal
Antenna Gain		43.4 dBi(14.250 GHz)	41.8 dBi(11.750 Ghz)
Antenna Noise Temperature		-	48°K el; 10°
Antenna Cross Polarization Isolation		35 dB	35 dB
Copolar Sidelobe Envelope	29-25 log θ dBi	1.7° < θ < 7.0°	-
	8 dBi	7.0° < θ < 9.2°	-
	32-25 log θ dBi	9.2° < θ < 48°	-
VSWR		<1.3:1 Max	
Feed Interface		WR-75	WR-75
Tx to Rx Isolation (with transmit reject filter)		80 dB	40 dB
Insertion Loss		0.2 dB	0.3 dB
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%