

SDC120 DIAMOND MOTORIZED SNG ANTENNA

- Eutelsat auto-pointing approval with resolver option
- Diamond shape offset carbon fiber reflector
- 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
- GPS Data for modems
- Reflector lock for Heavy Duty Conditions (shock absorber)
- De-icing system and 2-Port Receive
- DVB Tuner Card for fine tuning and recognizing Satellite
- EUTELSAT APPROVAL
- Robust Mechanic with Cogwheel Rigidity



EUTELSAT APPROVAL



SVS offers a complete line of Mobile Antennas, Quick Deploy Drive-Away Antennas at the best possible price. Designed with the latest technology, 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. The auto-pointing AKS Controller has the Eutelsat approval by achieving 0.01° accuracy and proven reliability.



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

SDC120 DIAMOND MOTORIZED SNG ANTENNA

RF SPECIFICATIONS		Transmit	Receive
Frequency Band		13.75-14.5 GHz	10.95-12.75 GHz
Polarization		Linear Orthogonal	Linear Orthogonal
Antenna Gain		44.5 dBi (Typical) - 43.6 dBi (min)	43 dBi (Typical) - 42.2 dBi (min)
Antenna Noise Temperature		-	48°K el; 10°
Antenna Cross Polarization Isolation		35 dB	35 dB
Off Axis Gain	25-25 log θ dBi	1.8° < θ < 4.0°	-
	($\theta=90^\circ$) in Azimuth Plane	23-25 log θ dBi	4.0° < θ < 20.0°
		-10 dBi	20.0° < θ < 130.0°
		-10 dBi	130.0° < θ < 180.0°
	($\theta=0^\circ$) In Elevation Plane	29-25 log θ dBi	1.8° < θ < 35.0°
		-10 dBi	35.0° < θ < 130.0°
	+5 dBi	130.0° < θ < 180.0°	1.8° < θ < 35.0°
			35.0° < θ < 120.0°
			130.0° < θ < 180.0°
VSWR		<1.3:1 Max	-
Feed Interface		WR-75	WR-75
Tx to Rx Isolation (with transmit reject filter)		>80 dB	
Insertion Loss		0.2 dB	0.3 dB
MECHANICAL SPECIFICATIONS			
Antenna Geometry		Offset feed	
Antenna Reflector Effective Aperture		Diagonal: 1.5 m, Across Flat: 1.2 m	
Ports		2 (optionally 3 port)	
Elevation Range		0°-70° (without housing), 12°-70° (with housing), (Up limit can be adjusted up to 90° for both option)	
Azimuth Range		±180°	
Polarization Range		±95°	
Weight		155 kg antenna with pod	
Reflector Material		Diamond Shaped Carbon Fiber	
Dimensions		Max 194x153x56 cm (with pod)	
SPEED		Minimum	Maximum
Azimuth		0.2°/sec	1.6°/sec
Elevation		0.2°/sec	1.6°/sec
Polarization		0.5°/sec	9.7°/sec
ENVIRONMENTAL SPECIFICATIONS		Operational	Survival
Wind Load		72 km/h (Optionally 100 km/h)	160 km/h(stowed)
Ambient Temperature		-30°C to +60°C	-40°C to +70°C
Humidity		0% - 100%	0% - 100%