

SVS SATELLITE SYSTEMS

SCH120 Ku-Band MOTORIZED ANTENNA

- New Universal Mechanical Design
- High RF Performance
- Supports different platforms like Viasat, Hughes, iDirect and Newtec modem (w BUC)
- Easy Integration for Amplifier or BUC (small size)
- Strong and Gapless Gear Structure
- Outdoor Antenna Controller with Remote Control
- Designed for VSAT and Broadcast Applications
- Auto Pointing with 3-Axis Movement
- Supports up to 400W Amplifier (w W/G Crossover Kit)
- Easy Installation
- Control via Tablet, Smart Phone or PC
- Standard GPS-Compass on Antenna



SCH120 Drive-Away antenna system is an easily configured, simple to operate auto-deploy VSAT terminal which can be mounted on the roof of a vehicle. It is suitable for the most demanding applications. Ideally suited for applications that require a quick, simple set-up typically for industries such as SNG, Disaster Management, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services.



ANTENNA OPTIONS

- DE-ICING UP TO 2500 W
- HALF HOUSING
- 3-PORT FEED
- W/G CROSSOVER KIT UP TO THE FEED ARM
- W/G CROSSOVER KIT UP TO THE ANTENNA POD
- 7/24 REMOTE SUPPORT SERVICE
- ON SITE PREVENTATIVE MAINTENANCE SERVICE
- ON SITE COMMISSIONING SERVICE
- SINGLE OR REDUNDANT AMPLIFIER INTEGRATION (please check Amplifier brand and model)

SCH120 Ku-Band MOTORIZED ANTENNA

RF SPECIFICATIONS		Transmit	Receive
Frequency Band		13.75-14.5 GHz	10.70-12.75 GHz
Polarization		Linear Orthogonal	Linear Orthogonal
Antenna Gain (± 2 dB)		43.3 dBi @ 14.3 GHz	41.8 dBi @ 12.0 GHz
Antenna Noise Temperature		45°K el; 10°	
Antenna Cross Polarization		30 dB in 1 dB Contour	
Side Envelope (Tx, Co-Pol dBi)	29-25 log θ dBi	1.5° < θ < 20.0°	-
	-3.5 dBi	20.0° < θ < 26.3°	-
	32-25 log θ dBi	26.3° < θ < 48.0°	-
	-10 dBi	48.0° < θ < 180°	-
3 dB Beamwidth		1.2 @ 14.3 GHz	1.5 @ 12.0 GHz
VSWR		<1.3:1 Max	<1.5:1 Max
Feed Interface		WR-75	WR-75
Isolation		90 dB	>40 dB
MECHANICAL SPECIFICATIONS			
Antenna Geometry		Front feed	
Antenna Reflector Effective Aperture		120 cm	
Ports		2 (optionally 3 port)	
Elevation Range		5°-70° (with housing), (Up limit can be adjusted up to 90°)	
Azimuth Range		$\pm 180^\circ$	
Polarization Range		$\pm 95^\circ$	
Elevation Safety Stow Degree		Adjustable	
Weight		98 kg without cross WG kit 118 kg with cross WG kit	
Reflector Material		Fiber Glass	
Dimensions		180x123x43 cm without cross WG kit 180x123x47.5 cm with cross WG kit	
SPEED			
		Minimum	Maximum
Azimuth		0.22°/sec	2.2°/sec
Elevation		0.15°/sec	1.43°/sec
Polarization		0.65°/sec	9.7°/sec
ENVIRONMENTAL SPECIFICATIONS			
		Operational	Survival
Wind Load		72km/h	160 km/h (stowed)
Ambient Temperature		-20°C to +60°C	-30°C to +70°C
Humidity		0% - 95%	0% - 95%