

# SVS SATELLITE SYSTEM

## SM370-Ro FIXED MOTORIZED ANTENNA SOLUTION

- Precision compression molded centerfed reflector
- Compliant with Ku, C or DBS band feeds
- Low transportation cost with eight panel reflector
- Designed for C and Ku-Band uplink
- Fully galvanized steel Az/EI mount
- Movement on three axis
- Optionally de-icing system
- Optionally tracking system with the beacon receiver or DVB tuner card.



- SM370 receive only antenna is a high performance, powerful and efficient motorised antenna system.
- The versatile pedestal mount allows for fixed or motorized applications and features 180 degree azimuth coverage in three continuous overlapping ranges.
- Three axis motorized system with 180 degrees of azimuth adjustment
- Integration of de-ice system
- Tracking system provides with support of AKS250



### Mechanical Limit Switches:

Provides limitation for the 3-axis movement, stow position & status control by 8-limit switches

### DVB Tuner Card and Beacon Receiver:

Provides Tracking specification to the antenna DVB tuner card is a solution just for Ku-Band but beacon receiver can provide the both Band antennas.

### Applicable Options:

2 port receive, De-icing

## ANTENNA CONTROL CAPABILITIES

**Level 1 :** Simple version to control azimuth, elevation, polarization movement, automatic stow and deploy to preset position.

**Level 2 :** Automatic antenna pointing to selected satellite by using GPS and fluxgate compass.

**Level 3 :** Tracking of an inclined orbit satellite by using tuner card or Beacon receiver

## SM370-Ro FIXED MOTORIZED ANTENNA SOLUTION

### RF SPECIFICATIONS

	C-Band	Ku-Band
Frequency Band	3.7-4.2 GHz	Rx 10.95-12.75 GHz
Polarization	Linear or Circular	
Antenna Gain	40.9 dBi	50.7 dBi
Antenna Noise Temperature(30° elevation)	23 K	22 K
Antenna Cross Polarization Isolation	35 dB on Axis	35 dB on Axis
Copolar Sidelobe Envelope	0 dB	0 dB
3 dB Beamwidth	1.45 °	0.5°
VSWR	1:3:1 Max	1.3:1 Max
Feed Interface	CPR 229	WR-75 Flat Flange

### MECHANICAL SPECIFICATIONS

Antenna Geometry	Parabolic,Front Feed
Antenna Reflector Effective Aperture	3.7 m
Ports	2 ports
Elevation Range	0°-80°(Adjustable 10°-90°)
Azimuth Range	±150°(Optionally ±180°)
Polarization Range	±100°
Weight	550 kg
Reflector Material	Eight Segment Glass Fiber-Reinforced Polyester

### SPEED

	Minimum	Maksimum
Elevation	0.1°/sec	1°/sec
Azimuth	0.1°/sec	1°/sec
Polarization	0.5°/sec	13°/sec

### ENVIRONMENTAL SPECIFICATION

	Operational	Survival
Wind Load	100km/h	160 km/h
Ambient Temperature	-30°C to +60°C	-40°C to 70°C
Humidity	%0 - %100	%0 - %100