



MOBILE ANTENNA SOLUTIONS



The right way to the sky

SVS SATELLITE SYSTEMS

SDC120 MOTORIZED SNG ANTENNA

- Robust
- Easy to mount
- High performance
- Eutelsat auto-pointing approval with resolver option
- Diamond shape offset carbon fiber reflector(1.2m)
- Designed for Ku, Ka, DBS, C and X band applications
- Can be adapted for custom implementations
- Full 3 axis control includes 360° azimuth range
- Remote control via ethernet or RS485/RS232



EUTELSAT APPROVAL

SDC120 is a high performance, powerful and efficient motorised SNG Antenna System is designed for Ku band uplink operations as part of uplink vehicles. It is also designed for heavy duty conditions as a reliable system which was proved in field for many years in operations.

SDC120 diamond shape drive away antenna is an easy to mount antenna system on the top of the vehicle. Once you fix the antenna you can use the system for many years without any problems.

SDC120 has the Eutelsat auto-pointing approval by achieving 0.01° sensibility with the advanced autopointing algorithm and hardware.

SDC120 is developed for **quality focused customer segment** of the market.

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



Mechanical Limit Switches : Provides limitation for the 3-axis movement, stow position & status control by 8-limit switches.

DVB Tuner Card : Allows to make fine tuning and recognize satellite.

Applicable Options : 2 port receive Housing, De-ice.



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SVS SATELLITE SYSTEMS

SDC120 MOTORIZED SNG ANTENNA

RF SPECIFICATIONS

		Transmit	Recive
Frequency Band		13.75-14.5 GHz	10.95-12.75 GHz
Polarization		Linear Orthogonal	Linear Orthogonal
Antenna Gain		44,5 dBi(Typcial)-43,6 dBi(min)	43 dBi(Typcial)-42,2 dBi(min)
Antenna Noise Temperature		-	48°K el; 10°
Antenna Cross Polarization Isolation		35 dB	35 dB
(θ=90°) in Azimuth Plane	25-25 log θ dBi	1.8°< θ<4.0°	-
	23-25 log θ dBi	4.0°< θ<20.0°	-
	-10dBi	20.0°< θ<130.0°	-
	-10dBi	130.0°< θ<180.0°	-
Off Axis Gain			
(θ=0°) in Elevation Plane	29-25 log θ dBi	1.8°< θ<35.0°	1.8°< θ<35.0°
	-10dBi	35.0°< θ<130.0°	35.0°< θ<120.0°
	+5 dBi	130.0°< θ<180.0°	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 Front Feed
Antenna Reflector Effective Aperture	Diagonal: 1.5 m, Across Flat : 1.2 m
Ports	2 (optionally 3)
Elevation Range	0° (without housing), 10°-70° (with housing), (Up limit can be adjustable till 90°)
Azimuth Range	±180°
Polarization Range	±95°
Elevation Safety Stow Degree	Adjustable
Weight	153 kg antenna with pod
Reflector Material	Diamond Shaped Carbon Fiber
Dimensions	Max 194x153x56 cm (with pod)

SPEED

	Minimum	Maksimum
Azimuth	0.2°/sec	1.6°/sec
Elevation	0.2°/sec	1.6°/sec
Polarization	0.2°/sec	4.8°/sec

ENVIRONMENTAL SPECIFICATION

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



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SVS SATELLITE SYSTEMS

SDC150 MOTORIZED SNG ANTENNA

- Robust
- High performance
- Easy to mount
- Eutelsat auto-pointing approval with resolver option
- Diamond shape offset carbon fiber reflector(1.5m)
- Designed for Ku, Ka, DBS, C and X band applications
- Can be adapted for custom implementations
- Full 3 axis control includes 360° azimuth range
- Remote control via ethernet or RS485/RS232



EUTELSAT APPROVAL



SDC150 is a high performance, powerful and efficient motorised SNG Antenna System.

SDC150 is designed for Ku-band uplink operations as part of uplink vehicles.

It has been also designed for heavy duty conditions as a reliable system which was proved in field for many years in operation.

SDC150 is an easy to mount antenna system on the top of the vehicle through its compact design.

Once you fix the antenna you can use the system for many years without any problem.

SDC150 has the Eutelsat auto-pointing approval by achieving 0.01° sensibility with the advanced auto-pointing algorithm and hardware.

SDC150 is developed for **quality focused customer segment** of the market.

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.



Mechanical Limit Switches : Provides limitation for the 3-axis movement, stow position & status control by 8-limit switches.

DVB Tuner Card : Allows to make fine tuning and recognize satellite.

Applicable Options : 2 port receive Housing, De-ice.



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SVS SATELLITE SYSTEMS

SDC150 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		46 dBi(Typical)-45,5 dBi(min)	44 dBi(Typical)-43,7 dBi(min)
Antenna Noise Temperature		-	48°K el; 20°
Antenna Cross Polarization Isolation		35 dB	35 dB
(θ=90°)In Azimuth plane	25-25 log θ dBi	1,0° < θ < 2,5°	-
	19-25 log θ dBi	2,5° < θ < 15,0°	-
	-10dBi	15,0° < θ < 140,0°	-
Off Axis Gain(Tx-Rx)	+5dBi	140,0° < θ < 180,0°	-
	29-25 log θ dBi	1,0° < θ < 35,0°	1,5° < θ < 35,0°
	-10dBi	35,0° < θ < 130,0°	35,0° < θ < 120,0°
(θ=0°)In Elevation plane	+5 dBi	130,0° < θ < 180,0°	130,0° < θ < 180,0°
VSWR		<1,3:1	-
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 Front Feed
Antenna Reflector Effective Aperture	Diagonal: 1.9 m, Across Flat : 1.5 m
Ports	2 (optionally 3)
Elevation Range	0°-70° (without housing), 5°-70° (with housing), (Up limit can be adjustable till 90°)
Azimuth Range	±180°
Polarization Range	±95°
Elevation Safety Stow Degree	Adjustable
Weight	200 kg with pod
Reflector Material	Carbon Fiber
Dimensions	Max 232x189x68 cm (with pod)

SPEED

	Minimum	Maksimum
Azimuth	0,2°/sec	1,6°/sec
Elevation	0,2°/sec	1,6°/sec
Polarization	0,2°/sec	4,8°/sec

ENVIRONMENTAL SPECIFICATION

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



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SDO120 MOTORIZED SNG ANTENNA

- Robust
- High Performance
- Easy to mount
- 1.2m offset reflector
- Cost effective
- Designed for Ku, Ka, DBS, C, X band uplink
- Full 3 axis control includes 360° azimuth range
- Can be adapted for custom implementations
- Remote control via ethernet or RS485/RS232



SDO 120 is a high performance, powerful and efficient Motorised SNG Antenna System

SDO 120 is designed for Ku band uplink operations as part of uplink vehicles.

It has been also designed for heavy duty conditions as a reliable system which was proved in field for many years in operations.

SDO 120 antenna is an easy to mount antenna system on the top of vehicle.

Once you fix the antenna you can use the system for many years without any problems.

SDO 120 is developed for **cost focused customer segment** of the market.

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



Mechanical Limit Switches : Provides limitation for the 3-axis movement, stow position & status control by 8-limit switches.

Applicable Options : 3 or 4 ports receive, Housing, De-ice

SVS SATELLITE SYSTEMS

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
	29-25 log θ dBi	1.7° < θ < 7°	-
	8 dBi	7° < θ < 9.2°	-
Copolar Sidelobe Envelope	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 Gregorian
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 adjustable without housing till 90°)
Azimuth Range	±180°
Polarization Range	±100°
Elevation Safety Stow Degree	Adjustable
Weight	130 kg antenna(Pod 28 kg)
Reflector Material	Fiber Glass
Dimensions	Max 187x131x58,5 cm (with pod)

SPEED

	Minimum	Maksimum
Elevation	0.2°/sec	3.2°/sec
Azimuth	0.2°/sec	3.2°/sec
Polarization	0.2°/sec	17°/sec

ENVIRONMENTAL SPECIFICATION

	Operational	Survival
Wind Load	80km/h	160 km/h(stowed)
Ambient Temperature	-20°C to +50°C	-40°C to 60°C
Humidity	%0 - %100	%0 - %100



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SVS SATELLITE SYSTEMS

SFA200-100 NON-MOTORIZED FLY AWAY ANTENNA

- Robust
- High performance
- Efficient
- Easy to mount
- Designed for Ku, Ka, DBS, C, X band applications
- Compliant with IATA Standarts
- Diamond shape offset carbon fiber reflector(1.0m)



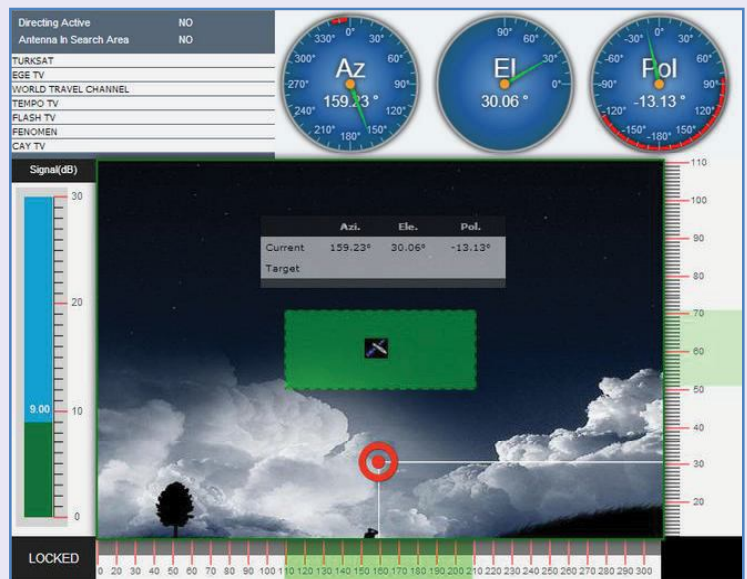
SVS SFA200-100 is a high performance, powerfull and efficient non-motorized fly away antenna system that is designed for uplink operations of broadcasters and data operators. It is designed as a reliable system against heavy duty conditions and operations in the field during many years.

SFA200-100 diamond shape carbon fiber antenna is an easy to set up system so that it can be set up with in 5 minutes.

SVS SFA200-100 helps operator to find satellite accurately thanks to GPS, Compas, Inclonometer and DVB Tuner Card coming with it. Instead of motors, operator can find the desired satellite by adjusting to antenna reflector by looking to the computer screen. When satellite is found, the software warns you that it is "locked". The software also provides audio visual alarms.

SFA200-100 is developed for **quality focused customer segment** of the market.

- Azimuth Sensor
- Polarization Sensor
- Elevation Sensor
- Proximity, Optional Resolver
- Potentiometer, Optional Resolver
- Clinometer, Optional Resolver



SVS SATELLITE SYSTEMS

SFA200-100 NON-MOTORIZED FLY AWAY ANTENNA

RF SPECIFICATIONS

	Transmit	Recive
Frequency Band	13,75-14,5 GHz	10,95-12,75 GHz
Polarization	Linear Orthogonal	Linear Orthogonal
Antenna Gain	42 dBi	40,5 dBi
Antenna Noise Temperature	-	48°K el; 10°
Cross Polarization	<-35 dB within 0.3° boresight <-30 dB within copolar pattern relative to co-polar peak	
Off Axis Gain	2.1° < θ < 35° @29-25 log θ 35.0° < θ < 130.0° @-10 log θ 130.0° < θ < 180.0° @+5 log θ	
($\theta=90^\circ$)	2.1° < θ < 35° @29-25 log θ 35.0° < θ < 130.0° @-10 log θ 130.0° < θ < 180.0° @+5 log θ	
($\theta=0^\circ$)	-	
VSWR	1:3:1 Max	-
Feed Interface	WR-75	WR-75
Isolation	40 dB	>40 dB, excluding Tx reject filter
Insertion Loss	0.2 dB	0.3 dB
Filter Rejection	Transmit Reject >70 dB	

MECHANICAL SPECIFICATIONS

Antenna Geometry	Offset Front Feed
Antenna Reflector Effective Aperture	Diagonal: 1.2 m, Across Flat : 1.0 m
Ports	2 (optionally 3)
Elevation Range	0°-90°
Azimuth Range	±180
Polarization Range	±92°
Sizes	Hard Case: 72x62x25 Soft Case: 58x57x23
Weight	32 kg including carrying case
Reflector Material	Carbon Fiber, Four-piece segmented "Diamond" shaped reflector, 1.0 m across-flats. The reflector is manufactured in carbonfiber with a honeycomb centre, All external surfaces primed and finished in two-pack polyurethane white paint

ENVIRONMENTAL SPECIFICATION

	Operational	Survival
Wind Load	60km/h	140 km/h(stowed)
Ambient Temperature	-30°C to.+ 60°C	-40°C to 70°C
Humidity	%0 - %100	%0 - %100



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SFA200-120 NON-MOTORIZED FLY AWAY ANTENNA

- Robust
- High performance
- Efficient
- Easy to mount
- Designed for Ku, Ka, DBS, C, X band applications
- Compliant with IATA Standarts
- Diamond shape offset carbon fiber reflector(1.2m)



SVS SFA200-120 diamond carbon fiber is a high performance, powerful and efficient fly away antenna system that is designed for uplink operations of broadcasters and data operators. It is designed as a reliable system against heavy duty conditions and operations in the field during many years.

SFA200-120 diamond carbon fiber antenna is an easy to set up system so that it can be set up within 5 minutes.

SVS SFA200-120 helps operator to find satellite accurately thanks to GPS, Compass, Inclonometer and DVB Tuner Card coming with it. Instead of motors, operator can find the desired satellite by adjusting to antenna reflector by looking to the computer screen. When satellite is found, the software warns you that it is "locked". The software also provides audio visual alarms.

SFA200-120 is developed for **quality focused customer segment** of the market.



- Azimuth Sensor
- Polarization Sensor
- Elevation Sensor
- Proximity, Optional Resolver
- Potentiometer, Optional Resolver
- Clinometer, Optional Resolver

SVS SATELLITE SYSTEMS

SFA200-120 NON-MOTORIZED FLY AWAY ANTENNA

RF SPECIFICATIONS

	Transmit	Recive
Frequency Band	13,75-14,5 GHz	10,95-12,75 GHz
Polarization	Linear Orthogonal	Linear Orthogonal
Antenna Gain	43.6 dBi	42.2 dBi
Antenna Noise Temperature	-	48°K el; 10°
Cross Polarization	<-35 dB within 0,3° boresight <-30 dB within copolar pattern relative to co-polar peak	
Off Axis Gain	1.8° < θ < 4.0° @25-25 log θ dBi 4.0° < θ < 20.0° @23-25 log θ dBi 20.0° < θ < 130.0° @-10 dBi 130.0° < θ < 180.0° @-10 dBi	1.8° < θ < 35° @29-25 log θ dBi 35.0° < θ < 130.0° @-10 dBi 130.0° < θ < 180.0° @+5 dBi
($\theta=90^\circ$)	-	-
($\theta=0^\circ$)	-	-
VSWR	1:3:1 Max	-
Feed Interface	WR-75	WR-75
Isolation	>40 dB, excluding Tx reject filter	35 dB
Filter Rejection	Transmit Reject >70 dB	-

MECHANICAL SPECIFICATIONS

Antenna Geometry	Offset Front Feed
Antenna Reflector Effective Aperture	Diagonal: 1.5 m, Across Flat : 1.2 m
Ports	2 (optionally 3)
Elevation Range	0°-90°
Azimuth Range	±180
Polarization Range	±92°
Reflector Material	Carbon Fiber, Four-piece segmented "Diamond" shaped reflector, 1.0 m across-flats. The reflector is manufactured in carbonfiber with a honeycomb centre. All external surfaces primed and finished in two-pack polyurethane white paint

ENVIRONMENTAL SPECIFICATION

	Operational	Survival
Wind Load	60km/h	140 km/h(stowed)
Ambient Temperature	-30°C to.+ 60°C	-40°C to 70°C
Humidity	%0 - %100	%0 - %100



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SVS SATELLITE SYSTEMS

SFM200-100 MOTORIZED FLY AWAY ANTENNA

- Easy to mount
- Fast and accurate auto pointing
- High performance, powerful
- Diamond shape offset carbon fiber reflector(1.0m)
- Designed for Ku, Ka, DBS, X band applications
- Drive control housed in main antenna case
- 4 pcs. segment motorised fly away antenna
- Can be used either as a fly away or drive away antenna system



SFM200-100 diamond shape carbon fiber antenna is a high performance, powerful, and efficient fly-drive antenna system, that is designed for uplink operations of broadcasters and data operators. It is designed as a reliable system against heavy duty conditions and operations in the field.

SFM200-100 is developed for **quality focused customer segment** of the market.



Product Overview

The SFM200-100 fly away antenna is the newest antenna solutions for satcom and broadcaster operators. SVS Telekom has made its fly away antenna as easy as possible to operate. It offers full 3-axis motorised control with manual backup, satellite auto acquisition and tracking system. The SFM200-100 can be fixed easily to all of the vehicle with standard fittings.

The flight cases are within certain dimensions, as covered by the IATA regulations on the dimensions of packaging cases and rugged enough to withstand the rigours of international air transport.

SOFTWARE CAPABILITIES

- Fast and accurate auto pointing
- Web based, user friendly GUI.
- One touch auto pointing operation
- Satellite user list (DVBS/S2 reference carrier)
- Integrated spectrum analyzer
- Speed levels up to 255 steps
- Automatic compass error correction
- Parametrically soft start/stop movement capabilities
- Sensitive manual control over web page or pc software interface
- Automatic positioning in all 3 axes and simultaneous movement capabilities
- Provider channel name decoding and representing in user interface for relevant carrier



SVS SATELLITE SYSTEMS

SFM200-100 MOTORIZED FLY AWAY ANTENNA

RF SPECIFICATIONS

	Transmit	Recive
Frequency Band	13.75-14.5 GHz	10.95-12.75 GHz
Polarization	Linear Orthogonal	Linear Orthogonal
Antenna Gain	42 dBi at W/G output of filter(14 GHz)	40.5 dBi at W/G output of filter(11.7 GHz)
Cross Polarization	<-35 dB within 0.3° boresight	<-35 dB on boresight
In Azimuth Plane ($\theta=90^\circ$)	19-25 log θ dBi 2.1° < θ < 15.0° -10 dBi 15.0° < θ < 130.0°	29-25 log θ dBi 2.1° < θ < 35.0° -10 dBi 35.0° < θ < 120.0°
Off Axis Gain		
In Elevatin Plane ($\theta=0^\circ$)	29-25 log θ dBi 2.1° < θ < 35.0° -10 dBi 35.0° < θ < 130.0°	+5 dBi 120.0° < θ < 180.0°
VSWR	1:3:1 Max	-
Isolation	>40 dB, excluding Tx reject filter	40 dB
Filter Rejection	Transmit Reject >70 dB	

MECHANICAL SPECIFICATIONS

Antenna Geometry	Offset Front Feed
Antenna Reflector Effective Aperture	Diagonal: 1.2 m, Across Flat : 1.0 m
Ports	2 (optionally 3)
Elevation Range	10°-70°
Azimuth Range	±181°
Polarization Range	±95°
Sizes	Main case: Hardcase 58x58x30,5cm Reflector case: Softcase 58x57x23cm Feed case: Softcase 132x35x17cm
Weight	Main case : Hardcase 32 kg Reflector case : Softcase 15 kg Feed case: Softcase 21 kg
Reflector Material	Carbon Fiber, Four-piece segmented "Diamond" shaped reflector, 1.0 m across-flats. The reflector is manufactured in carbonfiber with a honeycomb centre. All external surfaces primed and finished in two-pack polyurethane white paint

ENVIRONMENTAL SPECIFICATION

	Operational	Survival
Wind Load	60km/h	140 km/h
Ambient Temperature	-20°C to.+ 50°C	-40°C to 60°C
Humidity	%0 - %100	%0 - %100



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SVS SATELLITE SYSTEMS

SFM200-120 MOTORIZED FLY AWAY ANTENNA

- Easy to mount
- Fast and accurate auto pointing
- High performance, powerful
- Diamond shape offset carbon fiber reflector(1.2m)
- Designed for Ku, Ka, DBS, X band applications
- Drive control housed in main antenna case
- 4 pcs. segment motorised fly away antenna
- Can be used either as a fly away or drive away antenna system



SFM200-120 diamond shape carbon fiber antenna is a high performance, powerful, and efficient fly away antenna system, that is designed for uplink operations of broadcasters and data operators. It is designed as a reliable system against heavy duty conditions and operations in the field.

SFM200-120 is developed for **quality focused customer segment** of the market.



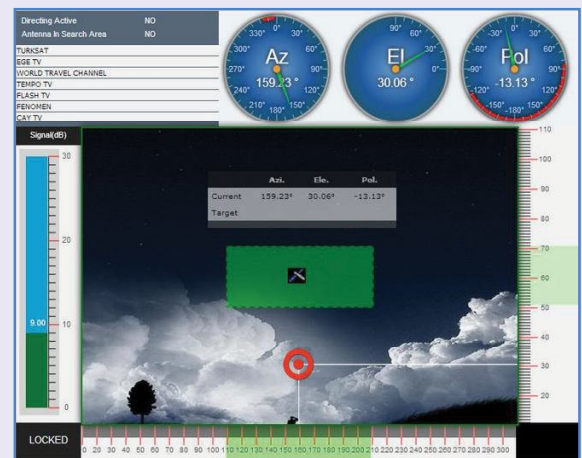
Product Overview

The SFM200-120 fly away antenna is the newest antenna solutions for satcom and broadcaster operators. SVS Telekom has made its fly away antenna as easy as possible to operate. It offers full 3-axis motorised control with manual backup, satellite auto acquisition and tracking system. The SFM200-120 can be fixed easily to all of the vehicle with standard fittings.

The flight cases are within certain dimensions, as covered by the IATA regulations on the dimensions of packaging cases and rugged enough to withstand the rigours of international air transport.

SOFTWARE CAPABILITIES

- Fast and accurate auto pointing
- Web based, user friendly GUI.
- One touch auto pointing operation
- Satellite user list (DVBS/S2 reference carrier)
- Integrated spectrum analyzer
- Speed levels up to 255 steps
- Automatic compass error correction
- Parametrically soft start/stop movement capabilities
- Sensitive manual control over web page or pc software interface
- Automatic positioning in all 3 axes and simultaneous movement capabilities
- Provider channel name decoding and representing in user interface for relevant carrier



SVS SATELLITE SYSTEMS

SFM200-120 MOTORIZED FLY AWAY ANTENNA

RF SPECIFICATIONS

	Transmit	Recive
Frequency Band	13.75-14.5 GHz	10.95-12.75 GHz
Polarization	Linear Orthogonal	Linear Orthogonal
Antenna Gain	43.6 dBi at W/G output of filter(11.7 GHz)	42.2 dBi at W/G output of filter(14,0 GHz)
Cross Polarization	<-35 dB within 0.3° boresight	<-35 dB on boresight
In Azimuth Plane ($\theta=90^\circ$)	19-25 log θ dBi 1,8° < θ < 4,0° -10 dBi 20,0° < θ < 130,0°	29-25 log θ dBi 1,8° < θ < 35,0° -10 dBi 35,0° < θ < 120,0°
Off Axis Gain		
In Elevatiin Plane ($\theta=0^\circ$)	29-25 log θ dBi 1,8° < θ < 35,0° -10 dBi 35,0° < θ < 130,0°	+5 dBi 120,0° < θ < 180,0°
VSWR	1:3:1 Max	-
Isolation	>40 dB, excluding Tx reject filter	>35 dB
Filter Rejection	Transmit Reject >70 dB	

MECHANICAL SPECIFICATIONS

Antenna Geometry	Offset Front Feed
Antenna Reflector Effective Aperture	Diagonal: 1.5 m, Across Flat : 1.2 m
Ports	2 (optionally 3)
Elevation Range	10°-70°
Azimuth Range	±181°
Polarization Range	±95°
Sizes	Main case: Hardcase 73x73x31 cm Reflector case: Softcase 73x72x23cm Feed case: Softcase 147x37x18cm
Weight	Main case : Hardcase 32 kg Reflector case : Softcase 17 kg Feed case: Softcase 23 kg
Reflector Material	Carbon Fiber, Four-piece segmented "Diamond" shaped reflector, 1.2 m across-flats. The reflector is manufactured in carbonfiber with a honeycomb centre. All external surfaces primed and finished in two-pack polyurethane white paint

ENVIRONMENTAL SPECIFICATION

	Operational	Survival
Wind Load	60km/h	140 km/h
Ambient Temperature	-20°C to, + 50°C	-40°C to 60°C
Humidity	%0 - %100	%0 - %100



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SVSAT 78-KA MOTORIZED VSAT ANTENNA

- Eutelsat Approval
- 78cm offset antenna
- Designed for Ka-Band VSAT applications
- Hands-off spot selection
- Two axis motorised system (Optional 3-axis)
- Auto-pointing and auto-peaking
- High performance
- Robust
- Easy to mount
- Compliant with Eutelsat Tooway and news spotter services
- Compliant with Yahsat Yahclick services



EUTELSAT APPROVAL



The SVSAT 78-Ka is a 78cm Ka-Band motorised drive away antenna. With its superior autopoingting algorithm points to satellite in a few minutes. It can be easily mounted to any vehicle or fixed platform. Advanced antenna controller selects the Ka spot based on GPS location without any operator action.

SVSAT 78-Ka is developed for **quality focused customer segment** of the market.

- Advanced antenna control capabilities of AKS250
- Starts to operate with just push one button
- Adjustable mechanical switches and software limits
- Accurate resolver,GPS,compass,and clinometer sensors.



The SVSAT 78-KA motorised antenna system is a reliable choice for your Ka Band applications for broadcasters, telecom operators, production companies and end users.

It also matches with the need of Oil & Gas Industry, and disaster recovery applications. Whenever and wherever you need instant broadband data communications and a powerful antenna system with a strong structure, The SVSAT 78-KA motorised antenna system helps you provide immediate access to satellite and makes Video&Voice over IP, file transfer, e-mail or web browsing, and high-speed access possible in Ka Band.

SVS SATELLITE SYSTEMS

SVSAT 78-KA MOTORIZED VSAT ANTENNA

RF SPECIFICATIONS

	Transmit	Receive
Frequency Band	28,1-30,0 GHz	18,3-20,2 GHz
Polarization	Circular	-
Antenna Gain	44 dBi @29,75 GHz	40,1 dBi@ 19,95 GHz
Radio Mounting	Feed	-
Coaxial	Canare L-3CFB from transceiver to modem	
Tx-Rx Cable	2 pcs Canare L-3CFB cables (7m each)	

MECHANICAL SPECIFICATIONS

Antenna Geometry	78 cm Circular Antenna, offset feed
Mount	Elevation over azimuth
Elevation Range	0°-60°
Azimuth Range	±175°
Weight	56 kg

SPEED	Minimum	Maksimum
Elevation	0,1°/sec	1,8°/sec
Azimuth	0,1°/sec	1,5°/sec

ENVIRONMENTAL SPECIFICATIONS

	Operational	Survival
Windload	80 km/h	160 km/h(deployed)
Ambient Temperature	-30 ° C to +55 ° C	-40 ° C to +70 ° C
Humidity	%0-%100	%0-%100

PHYSICAL SPECIFICATIONS

Mounting Plate	L:108.5cm , W:44.5cm
Stowed Dish Dimension	L:127.5cm , W:77cm , H:50cm



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SVSAT NM 78-KA NON-MOTORIZED VSAT ANTENNA

SVSAT NM 78-Ka is a low cost solution for your Ka band applications. In spite of low cost it presents you high level performance on your operations. SVS Engineers thought everything for you, like carrying case, slope scale and many little detail.

- 78cm offset antenna
- Designed for Ka Band VSAT applications
- Hands-off spot selection
- High performance
- Affordability
- Efficient
- Robust
- Easy to mount



SVSAT NM 78-Ka offers you low cost and high performance.

Its useful case design will provide you stable ground for your operations.

You can absolutely find the best working angle on the inclined areas with slope scala which designed by SVS engineer

SVSAT NM 78-Ka is developed for **cost focused customer segment** of the market.

SVSAT NM 78-KA is a high performance, powerfull and efficient Ka-Band Antenna System that is designed for Ka Band VSAT application and data operations It is designed as a reliable system against heavy duty conditions and operated in the field during many years.



SVSAT NM 78-Ka helps operator to find satellite with a user interface. Instead of motors, operator can find the desired satellite by adjusting to antenna reflector by looking to the computer screen. When satellite is found, the software warns you that it is "locked". The software also provides audio visual alarms.

SVS SATELLITE SYSTEMS

SVSAT NM 78-KA NON-MOTORIZED VSAT ANTENNA

RF SPECIFICATIONS

	Transmit	Recive
Frequency Band	28.1-30.0 GHz	18.3-20.2 GHz
Polarization	Circular	-
Antenna Gain	44 dBi @29,75 GHz	40,1 dBi@ 19,95 GHz
Antenna Noise Temperature	-	48°K el; 10°
Radio Mounting	Feed	
Coaxial	Canare L-3CFB from transceiver to modem	
Tx-Rx Cable	2 pcs Canare L-3CFB cables (7m each)	

MECHANICAL SPECIFICATIONS

Antenna Geometry	78 cm Circular Antenna,offset feed
Elevation Range	0°-80°
Azimuth Range	0°-360° Continuous
Sizes	Hard Case: 92x125x55
Weight	29 kg without carrying case 72 kg with carrying case

ENVIRONMENTAL SPECIFICATION

	Operational	Survival
Wind Load	60km/h	140 km/h(stowed)
Ambient Temperature	-30°C to.+ 60°C	-40°C to 70°C
Humidity	%0 - %100	%0 - %100

SVSAT 98-KA MOTORIZED VSAT ANTENNA

SVSAT 98-Ka is new product for SVS antenna portfolio. As mechanical, RF performance and auto-pointing capability, SVSSAT 98-Ka is similar to SVSAT 78-Ka. Only difference is antenna diameter. SVSAT 78-Ka already has granted an important approval, given by Eutelsat.

- 98cm offset antenna
- Designed for Ka Band VSAT applications
- Hands-off spot selection
- Two axis motorised system (Optional 3-axis)
- Strong mechanic unit
- Auto-pointing and auto-peaking
- High performance
- Robust
- Easy to mount
- Compliant with Eutelsat Tooway services
- Compliant with Yahsat Yahclick services



The SVSAT 98-KA is a 98cm Ka-Band motorized drive-away antenna. With its superior autopointing algorithm points to satellite in a few minutes. It can be easily mounted to any vehicle or fixed platform. Advanced antenna controller selects the Ka spot based on GPS location without any operator action.

SVSAT 98-Ka is developed for **quality focused customer segment** of the market.



- Advanced Antenna Control Capabilities of AKS250
- Single push button is enough to operate
- Adjustable mechanical switches and software limits
- Accurate resolver, GPS, compass, and clinometer sensors.

The SVSAT 98-KA motorised antenna system is a reliable choice for your Ka Band applications for broadcasters, telecom operators, production companies and end users.

It also matches with the need of Oil & Gas Industry, and Disaster recovery applications. Whenever and wherever you need instant broadband data communications and a powerful antenna system with a strong structure, The SVSAT 98-KA motorised antenna system helps you provide immediate access to satellite and makes Video&Voice over IP, file transfer, e-mail or web browsing, and high-speed access possible in Ka Band.

SVS SATELLITE SYSTEMS

SVSAT 98-KA MOTORIZED VSAT ANTENNA

RF SPECIFICATIONS

	Transmit	Receive
Frequency Band	29,5-30,0 GHz	19,2-20,2 GHz
Polarization	Circular	-
Gain	47.2 dBi @ 29.75 GHz	43.8 dBi @ 19.70 GHz
Radio Mounting	Feed	
Coaxial	Canare L-3CFB from transceiver to modem	
Tx-Rx Cable	2 pcs Canare L-3CFB cables (7m each)	

MECHANICAL SPECIFICATIONS

Antenna Geometry	98 cm Circular Antenna,offset feed
Mount	Elevation over azimuth
Elevation Range	0°-60°
Azimuth Range	±175°
Weight	60 kg

SPEED

	Minimum	Maksimum
Elevation	0.1°/sec	1.8°/sec
Azimuth	0.1°/sec	1.5°/sec

ENVIRONMENTAL SPECIFICATIONS

	Operational	Survival
Windload	80 km/h	160 km/h(deployed)
Ambient Temperature	-30 ° C to +55 ° C	-40 ° C to +70 ° C
Humidity	%0-%100	%0-%100

PHYSICAL SPECIFICATIONS

Mounting Plate	L:117,5cm , W:44,5cm
Stowed Dish Dimension	L:145 cm , W:98 cm , H:50 cm



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SVSAT 90-Ku MOTORIZED VSAT ANTENNA

- Robust
- High performance
- Easy to mount
- Three axis motorized system
- 90cm dual optic offset antenna
- Designed for Ku band VSAT applications
- Precision compression molded offset reflector

- 90 cm antenna is a high performance, powerful and efficient motorised antenna system.
- The versatile pedestal mount allows for motorised applications and features $\pm 180^\circ$ azimuth coverage in three continuous overlapping ranges.
- Optional Housing, De-icing system



- ✓ Mechanical Limit Switches, provides limitation for the 3-axis movement, status control by eight limit switches.
- ✓ Integrated DVB-S/S2 Tuner Card.
- ✓ Applicable Options, 2 port receive, de-icing, housing
- ✓ Advanced Antenna Control Capabilities
- ✓ Automatic antenna pointing to selected satellite by using GPS and Fluxgate compass
- ✓ To control azimuth, elevation, polarization movement, automatic stow and deploy to preset position.



Azimuth

Motor : 36 VDC
Sensor : Potentiometer
Resolver optionally

Elevation

Motor : 36 VDC
Sensor : Potentiometer
Resolver optionally

Polarization

Motor : 24 VDC
Sensor : Potentiometer

SVS SATELLITE SYSTEMS

SVSAT 90-Ku MOTORIZED VSAT ANTENNA

RF SPECIFICATIONS

	Transmit	Receive
Frequency Band	13.75-14.5 GHz	10.7-12.75 GHz
Polarization	Linear Orthogonal	Linear Orthogonal
Antenna Gain	40 dBi@14.250 GHz	38,3 dBi (11,750 GHz)
Antenna Noise Temperature	-	48°K el: 10°
Antenna Cross Polarization Isolation	35 dB	35 dB
Copolar Sidelobe Envelope	1.7° < θ < 7° 29-25log θ 7° < θ < 9,2° 8 dBi 9.2° < θ < 48° 32-25log θ	- - -
VSWR	1.3:1 Max	
Feed Interface	WR-75	WR-75
Tx to Rx Isolation	80 dB	40 dB
Insertion Loss	0.2 dB	0.3 dB

MECHANICAL SPECIFICATIONS

Antenna Geometry	Dual Optic
Ports	2 (optionally 3 port)
Elevation Range	0°-65°
Azimuth Range	±180°
Polarization Range	±120° (Optional)
Weight	90 kg
Reflector Material	Fiber Glass

SPEED

	Minimum	Maksimum
Elevation	0.2°/sec	4°/sec
Azimuth	0.2°/sec	4°/sec
Polarization (Optional)	0.5°/sec	5°/sec

ENVIRONMENTAL SPECIFICATIONS

	Operational	Survival
Windload	55 km/h	130 km/h(stowed)
Ambient Temperature	-20 ° C to +50 ° C	-40 ° C to +60 ° C
Humidity	%0-%100	%0-%100



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SVSAT 120-Ku MOTORIZED VSAT ANTENNA

- Robust
- Easy to mount
- Three axis motorized system
- High performance
- Designed for Ku band VSAT applications
- 120cm dual optic offset antenna
- Precision compression molded offset reflector

- 120cm antenna is a high performance, powerful and efficient motorised antenna system.
- The versatile pedestal mount allows for motorised applications and features $\pm 180^\circ$ azimuth coverage in three continuous overlapping ranges.
- Optional Housing, De-icing system



- Mechanical Limit Switches : Provides limitation for the 3-axis movement, status control by eight limit switches.
- Integrated DVB-S/S2 Tuner Card.
- Applicable Options : 2 port receive, de-icing, housing
- Advanced Antenna Control Capabilities
- Automatic antenna pointing to selected satellite by using GPS and Fluxgate compass
- To control azimuth, elevation, polarization movement, automatic stow and deploy to preset position.



Azimuth

Motor : 36 VDC
Sensor : Potentiometer
Resolver optionally

Elevation

Motor : 36 VDC
Sensor : Potentiometer
Resolver optionally

Polarization

Motor: 24 VDC
Sensor: Potentiometer

SVS SATELLITE SYSTEMS

SVSAT 120-Ku MOTORIZED VSAT 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	1,7° < θ < 7° 29-25log θ 7° < θ < 9,2° 8 dBi 9,2° < θ < 48° 32-25log θ	- - -
VSWR	1.3:1 Max	
Feed Interface	WR-75	WR-75
Tx to Rx Isolation	80 dB	40 dB
Insertion Loss	0.2 dB	0.3 dB

MECHANICAL SPECIFICATIONS

Antenna Geometry	Dual Optic
Ports	2 (optionally 3 port)
Elevation Range	0°-65°
Azimuth Range	±180°
Polarization Range	±120° (Optional)
Weight	110 kg
Reflector Material	Fiber Glass

SPEED

	Minimum	Maksimum
Elevation	0.2°/sec	4°/sec
Azimuth	0.2°/sec	4°/sec
Polarization (Optional)	0.5°/sec	5°/sec

ENVIRONMENTAL SPECIFICATIONS

	Operational	Survival
Windload	90 km/h	130 km/h(stowed)
Ambient Temperature	-20 ° C to +50 ° C	-40 ° C to +60 ° C
Humidity	%0-%100	%0-%100



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SPF180 C/KU MOTORIZED VSAT ANTENNA

- Robust
- Easy to mount
- High performance
- 180 cm offset reflector
- Designed for C, Ku band VSAT applications
- SPF180 is developed for cost focused customer segment of the market



- SVS SPF180 C/Ku 1.8 meter is a high performance, powerful and efficient motorised SNG antenna system.
- SPF180 is designed for C/Ku band uplink operations as part of a dedicated integrated uplink vehicles.
- It has been also designed for heavy duty conditions as a reliable system which was proved in field for many years in operation.
- SPF180 C/Ku is an easy to mount antenna system on the roof of the vehicle thanks to its compact design.
- Once you fix the antenna you can use the system for many years without any problem.
- SPF180 C/Ku is also easy for removing and re-installation onto new vehicles.

ANTENNA CONTROL CAPABILITIES

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

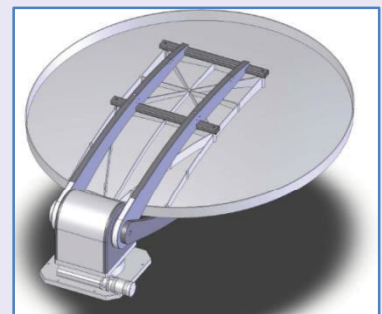
Level 2 : Automatic antenna pointing to selected satellite by using GPS and fluxgate compass.

Level 3 : Tracking of an inclined orbit satellite

Mechanical Limit Switches : Provide limitation for the movement in three axis, stow position and status control by eight limit switches

Applicable Options : Housing, De-icing Unit, 2 port reception

Azimuth Motor	: 36V PWM Control (5A Max)
Elevation Motor	: 36V PWM Control (5A Max)
Polarization Motor	: 24V PWM Control (0.3A Max)
Azimuth Sensor	: Proximity
Polarization Sensor	: Potentiometer



SVS SATELLITE SYSTEMS

SPF180 C-KU MOTORIZED VSAT ANTENNA

RF SPECIFICATIONS

	Transmit	Recive
Frequency Band	13.75-14.5 GHz	10.95-12.75 GHz
Polarization	Linear Orthogonal	
Antenna Gain	47 dBi@14.3 GHZ	45.5 dBi @ 12 GHZ
Antenna Noise Temperature	-	48°K el; 10°
3 dB Beamwidth	0.8° @ 14.3 GHz	1.0° @ 12.0 GHz
Antenna Cross Polarization Isolation	32 dB ; 37 dB in .5 dB Contour	
Copolar Sidelobe Envelope	2.5° < θ < 7° 29-25log θ	-
	7° < θ < 9.2 8 dBi	-
	9.2° < θ < 48° 32-25log θ	-
	48° < θ < 180° -10dBi	-
VSWR	1:3:1	1:5:1
Feed Interface	WR-75	WR-75
Isolation	80 dB	40 dB
Insertion Loss	0.2 dB	0.3 dB

MECHANICAL SPECIFICATIONS

Antenna Geometry	Offset Gregorian (Dual Optics)
Ports	2 (optionally 3)
Elevation Range	10°-90°
Azimuth Range	±180
Polarization Range	±120°
Weight	150 Kg
Reflector Material	Glass Fiber Reinforced Polyester

SPEED

	Minimum	Maximum
Elevation	0.2 °/sec	4 °/sec
Azimuth	0.2 °/sec	4 °/sec
Polarization	0.2 °/sec	8 °/sec

ENVIRONMENTAL SPECIFICATION

	Operational	Survival
Wind Load	60km/h	120 km/h(stowed)
Ambient Temperature	-30°C to.+ 60°C	-50°C to 80°C
Humidity	%0 - %100	%0 - %100



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SBAP-55 MOTORIZED PEDESTAL

As a custom design antenna pedestal, SBAP55 is developed as multifunctional system for marine and land vehicles. The mechanical of the antenna is carrying two parallel antenna at the same time and 3 axis motion provides for both antenna through antenna controller. Antenna diameter is selected as 55 cm in this application and the distance between centers of two antennas is 60 cm. This distance between antennas can adjust according to the application.



- Parallel two antenna has 3 axis motion
- GPS and 3 axis compass
- Dissasambles antenna platform stand
- Easy to carry
- Designed as multifunctional
- Automatic 110V-220V universal input
- Height adjustable antenna platform
- Waterproof additional equipment space between the antenna foot and platform

RADOME

Radomes are designed to protect the antenna system from external effects. This equipment provides a resistance for antenna system and also provides operation opportunity at offshore with water tightness ability. To protect the antenna from internal effects Radom has two fans. These fans is placed with a special design to prevent the leakage.

- Ventilation for the interior of radome
- Water proof
- Watertight fan system
- Internal heating for radome
- Alarm information for all fans
- Fan control with the ethernet interface



SBAP-55 MOTORIZED PEDESTAL

Platform

Antenna platform is created to fix the antenna at the different application areas, You can see this multi-functionality every little detail over the antenna. Antenna platform has four stands under the platform and this is enough to create a balanced environment but still for more safety ,antenna platform has the fixing points at the end of the stands.



- Adjustable platform height
- Removable antenna stand
- Connection points to carry with crane
- Waterproof additional equipment space between platform and antenna stand

Technical Specification of the Pedestal

Speeds

Azimuth

Minimum

0,1 ° to 12 ° (Adjustable)

Maksimum

Elevation

0,1 ° to 3 ° (Adjustable)

Polarization

40 ° (Adjustable)

Ranges

Azimuth

±180 ° (Adjustable)

Elevation

-10 ° , +70 ° (Adjustable)

Polarization

±90 ° (Adjustable)

Weight

75 Kg (Without Radom and Antenna)

Power

220-110V Universal Automatic Input

Distance Between Two
Antenna Center

60 cm (Adjustable)

(NEW PRODUCT) SVSAT 120-KA NEW GENERATION VSAT SOLUTION

SVS happily presents **SVSAT 120-KA** new generation Ka-Band solution to the satellite communication market.

Launchat
CABSAT 2014



- Developed for VSAT applications.
- High performance with 1.2 meter reflector.
- Total weight will be nearby 50kg .
- Dual optic reflector geometry.

(NEW PRODUCT) EASY-FLY NEW GENERATION FLY AWAY ANTENNA

SVS happily presents **EASY-FLY** new generation fly away solution to the satellite communication market.

Launch at
CABSAT 2014



- Developed for the low cost segment of the market.
- Compliant with MIL-STD-810G and MIL-STD-161F.
- High performance with 1.2 meter carbon-fiber reflector.
- Compliant with IATA standards.
- Easy to mount (in less than 1 minute).
- Carried by two cases and case sizes will be; 32x32x115cm.
- Total weight will be nearby 15kg except case.
- Dual optic reflector geometry.
- 1.2 meter carbon fiber reflector.

(NEW PRODUCTS) SoM-MAR & SoM-LAND

SVS keeps on R&D investments to develop **SoM-MAR** and **SoM-LAND** satcom on the move solutions for marine and terrestrial applications for defense industry.



Launch at
IDEF 2015

SHIPBORNE ANTENNA(Som-MAR);

- Antenna diameter is 100cm,
- Tx Gain > 35.5 dBi,
- Rx Gain > 34.5 dBi,
- Rx Frequency; 7.25-7.75GHz,
- Tx Frequency; 7.90-8.40GHz,
- EIRP > 51.2dWB(with proposed BUC),
- Cross Pol. Isolation > 21dB,
- Pointing loss < 1dB (for the determined conditions),
- Beamwidth(3dB) < 3°,
- Polarization; TxRHCP/RxLHCP,
- Weight < 200kg(including radome),
- Height of radome < 170cm,
- Radome diameter < 160cm,
- Stabilization structure; 2-3 axis,
- MIL-STD-810G standard for physical conditions,
- MIL-STD-810G standard for EMC,

➤ TERRESTRIAL ANTENNA(Som-LAND);

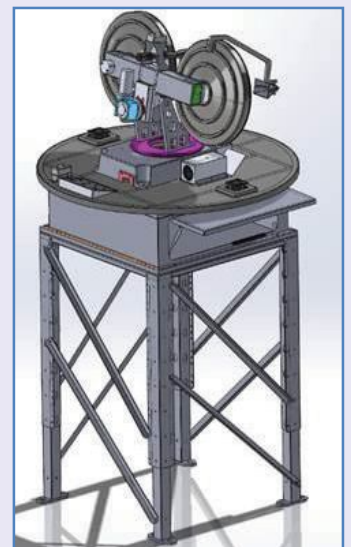
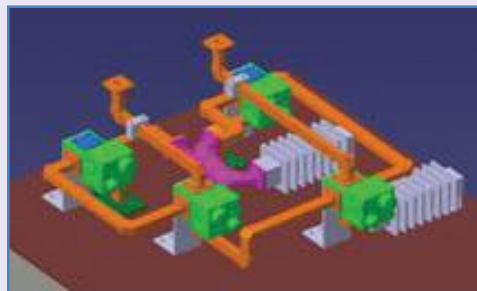
- Antenna diameter is ~50cm,
- Tx Gain > 30.2 dBi,
- Rx Gain > 29.2 dBi,
- Rx Frequency; 7.25-7.75GHz,
- Tx Frequency; 7.90-8.40GHz,
- Cross Pol. Isolation; 25dB,
- Pointing loss < 1dB (for Churchville B and Perryman 3 road conditions),
- Beamwidth(3dB) < 5°,
- Polarization; TxRHCP/RxLHCP,
- Weight < 70kg(including radome),
- Operational wind speed; 70km/h,
- Survival wind speed; 120km/h,
- Height < 60cm,
- Footprint(mounting area); 70x70cm,
- Supply; 24-28VDC,
- MIL-STD-810G standard for physical conditions,
- MIL-STD-810G standard for EMC,

CUSTOM DESIGN SOLUTIONS

One of the business principles of SVS is continuous innovation. As a result of this approach, SVS has own research and development corporation. Our R&D team keeps on working with the capability on mechanical, electromechanical and electronic development processes.

By using this capability and ability, SVS provides custom design solutions for demands from the satcom market and defense industry.

- SVS can present ETO (Engineering to Order) services to develop current products according to the customers' unique demands for different applications. As an example, SD0120 modified for defense industry can be given as follows;
- Custom mounts, mechanics and components can be developed for different applications;

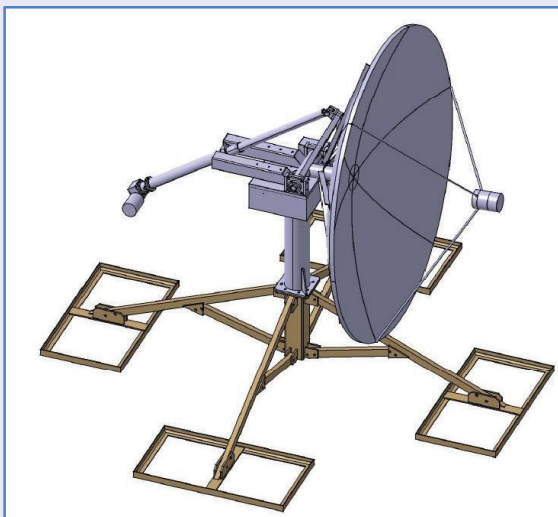


SVS SATELLITE SYSTEMS

- Custom antenna platforms can be developed for different applications;



- Custom design Fly-Drive antenna solutions for different applications;

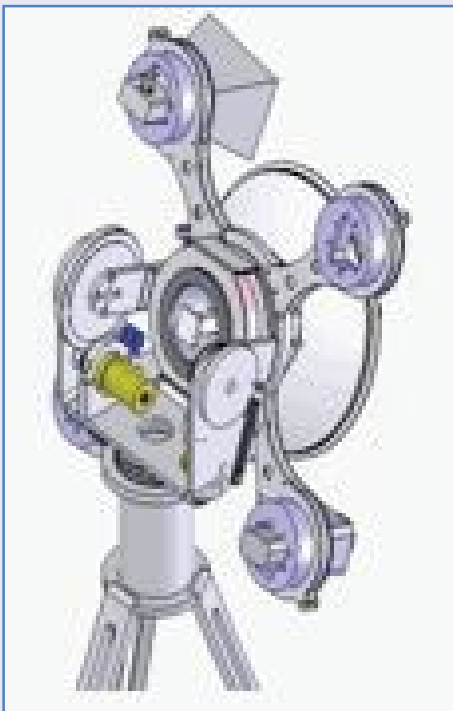
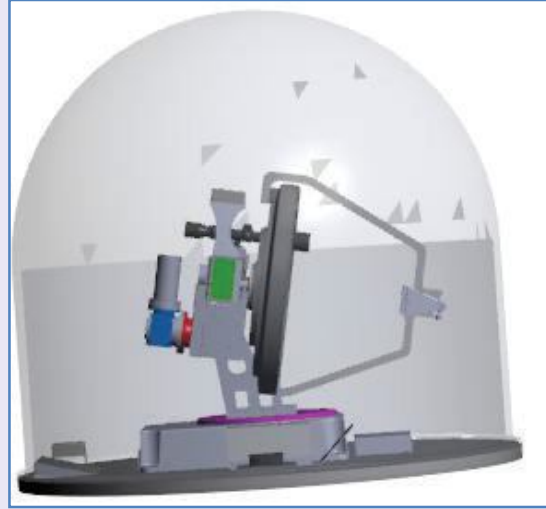


- Custom design satellite communication solutions for different applications;



SATELLITE SYSTEMS

- Custom design tracking systems can be developed for different marine and terrestrial applications in defense industry ;



SATELLITE SYSTEMS

AKS250 ANTENNA CONTROLLER

(FOR DRIVE AWAY ANTENNA SOLUTIONS)

- Eutelsat certified auto-pointing
- Control via computer 3-Axis movement
- Built-in DVB-S/S2 tuner
- Find satellite automatically
- Quick re-finding by satellite memory
- Define your limits
- The ability to control BUC for VSAT Applications
- Easy to use, and user friendly access levels
- Locking into DVB-S/S2 carriers and listing service names
- Spectrum viewer (with software licence option)
- Automatic or manual De-ice System controlling
- RF output activation by the time peaking completes
- Can operate between -40 to +60°C outdoor temperature



- AKS250 is a high performance, powerful, and efficient antenna controller system for both mobile and fixed antenna applications.
- 3-axis movement, auto stow / auto deploy (for mobile antennas)
- 1 / 32 or 1 / 255 steps speed adjustment over one screen
- Find satellite automatically and peak the satellite you find. Recall last satellite info and direct your antenna automatically. Select a satellite from your list of 700 satellites.
- Inclined satellite orbit tracking (with software licence option)
- AKS250 can track satellites via DVB tuner, referring to a carrier signal or a beacon receiver. Tracking can be achieved by two ways ; Step Track and Memory Track.
- Names, coordinates and parameters of 50 satellites can be stored
- English and Turkish menu options, manual and auto movement specifications are on the same screen.
- PC access via ethernet or serial ports(RS232/485).

Power Consumption	360W Max.(Fixed ant. 550W Max.)
Remote Control	Ethernet or RS485/RS232 Connection
Working Temperature	0-60 Degree
Dimensions	H:2RU,W19",D:420 mm
Connection	30 pins Circular Connection 5x9 pinsD-SUB RJ45 Ethernet and F-Connector for L Band

SATELLITE SYSTEMS

AKS250 ANTENNA CONTROLLER

CAPABILITIES

- Control both 2-axis and 3-axis dishes. AKS250 has limit switches and sensor inputs inside for movement.
- Through up limit, down limit, and azimuth inhibit information you can enable / disable azimuth movement.
- There are 3 coordinations info to enable / disable azimuth movement; CW limit, CCW Limit and center info.
- There are 3 coordinations info to enable / disable elevation movement; up limit, down limit, and azimuth inhibit.
- There are 2 coordinations info to enable / disable polarization movement; polarization CW limit, polarization CCW limit.



Sensors that can be used with AKS250 :

Resolver, Pulse Counter, Optic Encoder, Magnetic Switch, Inductive Sensor, Absolute Shaft Encoder, Potentiometer, Inclinator.

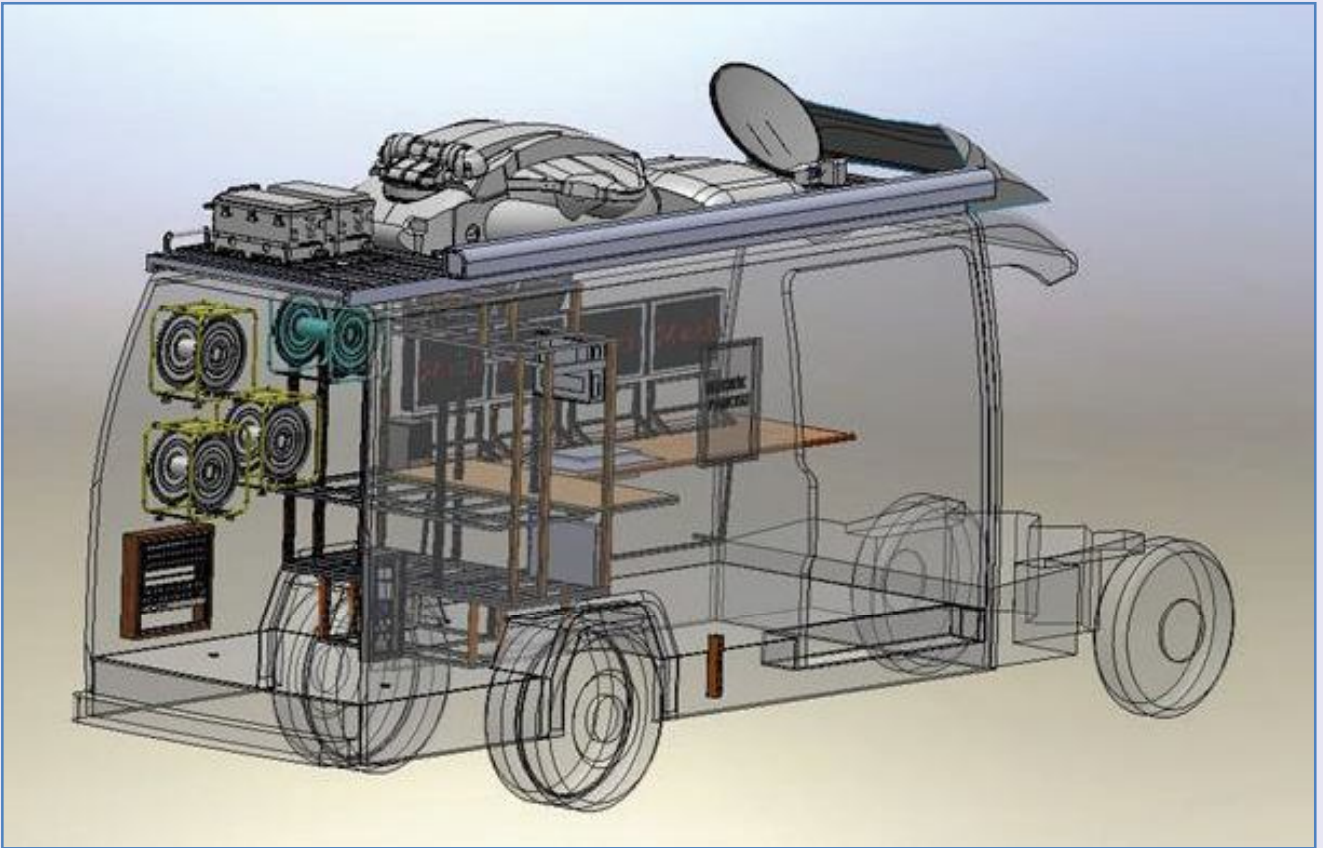
The position of antenna can be seen as counter or angle :

- Sensitivity is 360° equal 65536 pulse when the counter mode is selected.
- Sensitivity is 0.05° (0.01° with resolver option) when the angle mode is selected.
- 35V DC, 200W max. motors can be used for azimuth and elevation. Polarization needs 24V DC, 50W max.
- By using smart movement features of AKS250 an alarm or preventing movement can be generated.
- This will be done by AKS250 by controlling every step of an ordered movement. (i.e over current alarm, lack of DC voltage or ordered movement out of limits).
- AKS250 has independent inputs and outputs that can provide a lot of options such as monitoring temperature of the antenna, monitoring and controlling de-ice system and others.

SATELLITE SYSTEMS

CUSTOM DESIGN SOLUTIONS

Except system integration and antenna manufacturing, one of the main businesses of SVS is, designing and manufacturing of mobile satcom vehicles. We are able to design and manufacture SNG and OB-VAN type mobile satcom vehicles on site by well-experienced man power. Our corporation meets the total demand of broadcasters and other customer groups in Turkish, European, African and Middle East markets for more than 15 years .



For each SNG and OB-VAN projects, all details of the design varies according to the customer's expectations. So our R&D team firstly draw the solution as it is given in the figure, than manufacturing process can start according to this drawing.

SATELLITE SYSTEMS

SVS can present custom design satellite communication vehicles according to the customer's expectations for different application areas. Generally defense industry, governmental corporations and offices, etc. demand these kind of solutions.





SVS satellite systems



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