

The VISION is the ultimate Satellite Tracking antennas designed by Safran Data Systems for Earth Observation. It is proposed either as a commodity or as a turnkey solution to support any Remote Sensing satellite.

As with all Safran Data Systems antennas, the VISION benefits from the unique S/X/Ka concentric patented feed offering a unique asset for Continuity of Operations satellite generation.

It is offered in 3 versions, from 5.5 m, 6.1 m to 7.3 m (under radome) to better serve users needs of G/T & EIRP no matter the environmental constraints.

The VISION antenna architecture is based on RF over fiber converters for any configuration to optimize performance and simplify antenna installation.

The VISION antenna is also designed to comply with demanding Ka-band, with a specific focus on pointing accuracy.

The Ka-band operations is the largest Ka-band antenna available on the market complying with Program Track operations at 26 GHz.



Earth Observation Satellites



Service Providers



Scientific Missions

DESIGNED FOR EARTH OBSERVATION

Commercial Direct Receiving Station or Military applications

AUTOTRACK OR PROGRAM TRACK IN ALL BANDS

Largest Ka-band program track antenna

UP TO TRI-BAND S/X/KA

For Continuity of Operations

E-ANTENNA

Perfect match with NuRoN Virtualized baseband

RF OVER OPTIC CONVERSION

Easy deployment & operation start-up

THE FUTURE, OFF-THE-SHELF



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VISION Series

	MODEL	VISION 550	VISION 610	VISION 730
	DIAMETER	5.5m	6.1m	7.3m
	CONFIGURATION		Up to S+X+Ka	
S-Band Rx [2.200 – 2.300 GHz] Tx [2.025 – 2.120 GHz]	G/T @10°EL	>17.5 dB/K	>18.5 dB/K	>19.5 dB/K
	Rx Polarization	LHCP and RHCP (Simultaneous)		
	EIRP @ Psat	Up to 58 dBW	Up to 59 dBW	Up to 60 dBW
	Tx Polarization	LHCP or RHCP (Switchable)		
X-Band Rx [7.900 – 8.500 GHz]	G/T @10°EL	>31 dB/K (bi-band) >29.5 dB/K (tri-band)	>32 dB/K (bi-band) >30.5 dB/K (tri-band)	>33.5 dB/K (bi-band) >32 dB/K (tri-band)
	Rx Polarization	LHCP and RHCP (Simultaneous)		
	Specific Filtering	On-Demand. SAR LBF or BPF		
Ka-Band Rx [25.500 – 27.000 GHz]	G/T @10°EL	>35.7 dB/K	>36.7 dB/K	>38.2 dB/K
	Rx Polarization	LHCP and RHCP (Simultaneous)		
	Specific Filtering	On-Demand. BPF		
Operational Modes	Tracking modes	Program Track - Option Autotrack S-band, X-band and/or Ka-band		
Accuracy	Pointing Accuracy	< 80 m° peak (3 sigma) / < 45 m° rms (1 sigma)		
	Tracking Accuracy	< 50 m° peak (3 sigma) / < 25 m° rms (1 sigma)		
Environmental Conditions	Operating Wind	110km/h (69 mph)	80km/h (50 mph)	240km/h (radome)
	Survival Wind	200km/h	200km/h	240km/h (radome)
	Operating Temperature	Nominal: -20°C / +45°C Polar option : -45°C / +45°C - Tropical option: -20°C / +55°C		

> PEDESTAL SPECIFICATIONS

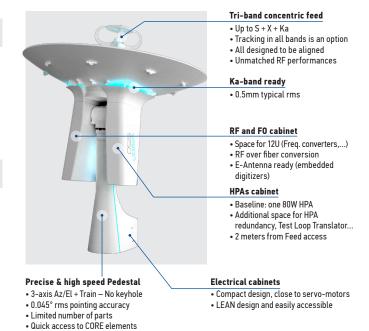
Tracking any satellite from 400km (250 miles) altitude

Azimuth & Travel Range	360° continuous
Elevation Travel Range	0°-90°
Angular Velocity	8°/s Az – 4°/s El & Train
Angular Acceleration	10°/s² Az/El

> SMART OPTIONS

Deployable with less than 2 days of operational downtime of antenna

Autotrack Single Channel Monopulse Baseband Cortex, Satcore or NuRoN Maesto-SAT M&C



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