

DATA SYSTEMS



TRACK TRANSMIT RECEIVE RECORD

PRO 370 PRO 550

Turnkey Systems
Ready for Next Generation Satellites
S / X / Ka-band



SATELLITE TRACKING SOLUTIONS

PRO Series antennas are the flagship antenna systems of Safran Data Systems. Their **state-of-the-art technology and full motion tracking capabilities** have made them successful worldwide.

The PRO Series is defined as a **fully capable complete package including all capabilities** (simultaneous dual polarization, single channel monopulse tracking and test capabilities in all band), baseband equipment and services. It ensures our customers a smooth deployment, easy operational start and a long service life in all environments.



Scientific Missions



Earth Observation Satellites



Service Providers

TRI-BAND S / X / KA

Safran Data Systems Patented Concentric Feed

HEXAPOD PEDESTAL

Safran Data Systems Patented Solution Targeting any point in the 360° Hemisphere

CORTEX SERIES BASEBAND

The Space Community Standard

100% IN-HOUSE COMPONENTS

High Performance

SATELLITE AGNOSTIC

Versatile Architecture

**THE RESILIENT ASSET
FOR THE NEW STANDARDS**

SATELLITE TRACKING SOLUTIONS

PRO 370 / PRO 550

	MODEL	PRO 370	PRO 550
	DIAMETER	3.7m (12 ft)	5.5m (18 ft)
	CONFIGURATION	S+Ka	X or S+X or S+Ka or S+X+Ka
S-Band Rx [2.200 – 2.300 GHz] Tx [2.025 – 2.120 GHz]	G/T Mid-Band, 5° Elevation, Clear Sky, +20°C, Continental	>13 dB/K	>16 dB/K
	Rx Polarization	LHCP and RHCP (Simultaneous)	
	EIRP @ Psat	54 dBW	56 dBW
	Tx Polarization	LHCP or RHCP (Switchable)	
X-Band Rx [7.900 – 8.500 GHz]	G/T Mid-Band, 5° Elevation, Clear Sky, +20°C, Continental	N/A	>30.5 dB/K
	Rx Polarization		LHCP + RHCP
	Specific Filtering		Included – Radar Low Pass Filter
Ka-Band Rx [25.500 – 27.000 GHz]	G/T Mid-Band, 5° Elevation, Clear Sky, +20°C, Continental	>30.5 dB/K	>35 dB/K
	Rx Polarization	LHCP and RHCP (Simultaneous)	
Operational Modes	Auto-Track Mode	Single Channel Monopulse – Triband/Polarization Switchable in each band (Safran Data Systems Patented)	
Accuracy	Tracking Accuracy	0.03° rms	0.05° rms
	Pointing Accuracy	0.10° rms	0.08° rms
Environmental Conditions	Operating Wind	90 km/h (56 mi/h) gust	
	Survival Wind	180 km/h (112 mi/h)	200 km/h (125 mi/h)
	Operating Temperature	-20° C to +50° C (-4° F to +122° F) • -40° C to +50° C (-40° F to +122° F) with Available Options: Winter Package, Deicing, Radome	

▶ PEDESTAL SPECIFICATIONS

Tracking Any Satellite from 400km (250 miles) Altitude

Azimuth Travel Range 540°
 Elevation Travel Range..... 0°-90° + Train Axis
 Angular Velocity..... 12°/s El - 10°/s Az
 Angular Acceleration..... 10°/s² El / 10°/s² Az

▶ BASEBAND



The Space Community Standard

TT&C Modem..... Cortex CRT
 High Rate Demodulator..... Cortex HDR



PRO Series
 Highest Quality, Best Performance
 & Ultimate Service Level

GLOBAL SALES

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