

## DATA SYSTEMS

TRACK TRANSMIT RECEIVE RECORD

# PRO 730 930 / 1100

**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 **Fully capable complete package including all capabilities** (simultaneous dual polarization, single channel monopulse tracking and test capabilities in all bands), 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

### 3-AXIS PEDESTAL

Targeting any point in the 360° Hemisphere

### CORTEX SERIES BASEBAND

The Space Community Standard

### 100% IN-HOUSE COMPONENTS

High Performance & Secured Maintenance

### SATELLITE AGNOSTIC

Versatile Architecture

**THE RESILIENT ASSET  
FOR THE NEW STANDARDS**

	MODEL	PRO 730	PRO 930	PRO 1100
	DIAMETER	7.3m (24 ft)	9.3m (30.5 ft)	11.0m (36 ft)
	CONFIGURATION	Mono, Bi or Tri-Band X or S+X or S+Ka or S+X+Ka		
<b>S-Band</b> Rx [2.200 – 2.300 GHz] Tx [2.025 – 2.120 GHz]	G/T Mid-Band, 5° Elevation, Clear Sky, +20°C, Continental	>19.5 dB/K	>21.5 dB/K	>22 dB/K
	Rx Polarization	LHCP and RHCP (Simultaneous)		
	EIRP @ Psat	57 dBW Option: 63 dBW	59 dBW Option: 65 dBW	60.5 dBW Option: 66.5 dBW
	Tx Polarization	LHCP or RHCP (Switchable)		
<b>X-Band</b> Rx [7.900 – 8.500 GHz]	G/T Mid-Band, 5° Elevation, Clear Sky, +20°C, Continental	>32.5 dB/K	>34.5 dB/K	>36 dB/K
	Rx Polarization	LHCP + RHCP		
	Specific Filtering	Included – Radar Low Pass Filter		
<b>Ka-Band</b> Rx [25.500 – 27.000 GHz]	G/T Mid-Band, 5° Elevation, Clear Sky, +20°C, Continental	>37 dB/K	>39 dB/K	>40 dB/K
	Rx Polarization	LHCP and RHCP (Simultaneous)		
<b>Operational Modes</b>	Auto-Track Mode	Single Channel Monopulse – Triband/Polarization Switchable in each band (Safran Data Systems Patented)		
<b>Accuracy</b>	Tracking Accuracy	0.035°rms	0.03°rms	0.02°rms
	Pointing Accuracy	0.08°rms	0.05°rms	0.04°rms
<b>Environmental Conditions</b>	Operating Wind S/X-Band	110 km/h (69 mi/h) gust	90 km/h (56 mi/h) gust	
	Operating Wind Ka-Band	90 km/h (56 mi/h) gust	80 km/h (50 mi/h) gust	90 km/h (56 mi/h) gust
	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°/s <sup>2</sup> EL / 10°/s <sup>2</sup> Az

## ▶ BASEBAND



### The Space Community Standard

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



**Tri-Band Concentric Feed**  
No compromise on performance

**Designed for Safety Maintenance**  
With hatches & platforms

**Dual-Drive Architecture**  
With Safran Data Systems counters torque algorithm

**3-Axis Pedestal**  
For polar operations

**RF / IF Distribution Riser**  
Simplifying infrastructure

## PRO Series Highest Quality, Best Performance & Ultimate Service Level

### GLOBAL SALES

5, Avenue des Andes - CS 90101 - 91978 Courtaboeuf Cedex - FRANCE - Tel.: +33 1 69 82 78 00 - Email: sales.sdsy@safrangroup.com

### USA

3005 Business Park Dr - Norcross, GA 30071 - USA - Tel.: +1 770 753 4017 - Email: sales@SafranDataSystemsUS.com

