

**PRELIMINARY**

**DATA SYSTEMS**



# IRIS-240

## THE COLLAPSIBLE SATELLITE TRACKING ANTENNA



**SATELLITE TRACKING SOLUTIONS**

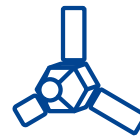
The IRIS-240 is Safran Data Systems' new generation of transportable antenna systems.

Stored in simple man-portable transport cases, the IRIS-240 uses standard shipping methods and sets up in the field in less than 2 hours ready to support your satellites.

The IRIS-240 relies on a proven pedestal design and a dual band concentric feed to ensure the best pointing accuracy and antenna performance.

Built from standard (LRU) parts, the IRIS-240 is easily maintained and serviced in the field to ensure maximum availability for your satellite missions.

Combined with the SATCORE combo box (Command/Control modem & high rate receiver) and the Maestro Monitoring & Control software makes the IRIS-240 your all-in-one transportable satellite tracking system



Earth Observation Satellites (S/X-Band, Ka-band)



Standard shipping (Land/Air/Sea)



Full system deployment < 2 hours

### FAST SET UP / TEAR DOWN

Single tool for mounting  
Less than two hours

### FIELD MAINTENANCE

Made out of LRU parts for easy maintenance and repair

### MIL STANDARD COMPLIANT

Easy handling  
No part exceeding 65 lbs

### STANDARD SHIPPING

15 two-man-portable boxes  
Fedex, UPS, ... compatible

### DESIGNED FOR FIELD OPERATIONS

Air cooling field  
Auto north alignment  
Auto ground compensation

**THE FUTURE, OFF-THE-SHELF**

# IRIS-240

	MODEL	IRIS-240
	DIAMETER	2.4 m (8 Ft)
	CONFIGURATION	S + X / Single or Dual band configuration
<b>S-Band</b>		
G/T @10°EL	Rx [2,200 – 2,300 GHz]	>10dB/K
	Rx Polarization	LHCP and RHCP (Simultaneous)
EIRP @ Psat	Tx [2,025 – 2,120 GHz]	>47dBW
	Tx Polarization	LHCP or RHCP (Switchable)
<b>X-Band</b>		
G/T @10°EL	Rx [7,900 – 8,500 GHz]	>23dB/K
	Rx Polarization	LHCP and RHCP (Simultaneous)
Operational Modes	Tracking modes	Program Track.
Accuracy	Pointing Accuracy	< 0,25 m° RMS
Environmental Conditions	Operating Wind	<70 km/h / 43 mph
	Survival Wind	<90 km/h / 62 mph
	Operating Temperature	-30°C / +50°C
	Storage Temperature	-40°C / +60°C

## ▶ PEDESTAL SPECIFICATIONS

**Track any satellites from 160 Km (100 Mi) altitude with no keyhole**

Azimuth Travel Range ..... Unlimited  
 Elevation travel Range ..... 0° - 180° without keyhole  
 Angular Velocity ..... 5°/s any direction  
 Angular Acceleration ..... 10°/s<sup>2</sup> Az/EL

## ▶ DEPLOYMENT/PACKING/TRANSPORT

**Ready to operate or ship in less than two hours**

Deployment time ..... 2 hours  
 Packing time ..... 2 hours  
 Storage & transport ..... 15 two-man portable transit cases

### IRIS-240:

- Easy deployment & operation (auto north alignment and ground compensation)

#### Safran Concentric feed

- S+X
- Dual Pol
- S-Transmit



#### Hexapod pedestal

- Light & accurate
- No keyhole



#### Transit cases

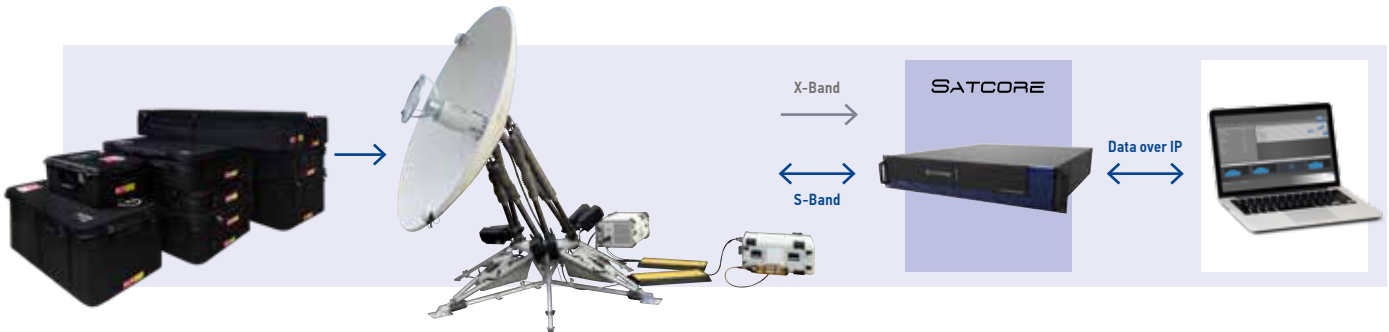
- ADU & RF equipment



#### Stabilizer

- No anchoring requirement
- Auto ground compensation with inclinometer

- Fiber Optic interfaces with customer racks on demand
- Embedded test loop, auto testing & readiness check functions



### GLOBAL SALES

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