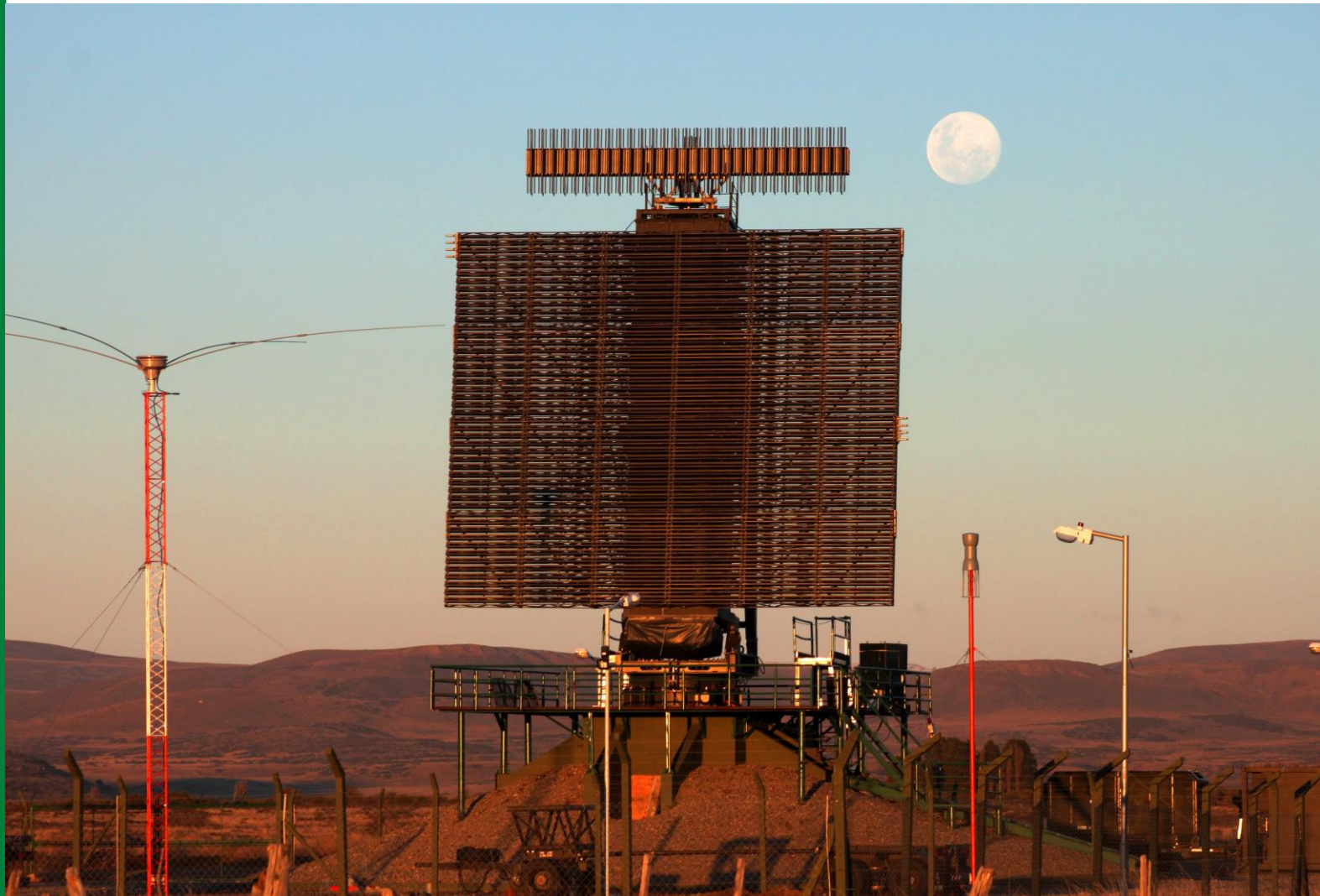


RPA-240T

## LONG RANGE 3D AIR SURVEILLANCE RADAR



RPA-240T is an L band Long Range 3D Air Surveillance radar with pencil beam Active Electronic Scanned Antenna.

Featuring state-of-the-art processing algorithms and advanced ECCM capabilities, with dedicated antennas, receiver and processor, the RPA-240T delivers excellent performance even in the most extreme clutter conditions and electronic warfare scenarios.

Its modular design, with distributed air-cooled RF power generation, allows H-24/365 operation, with high availability, minimum maintenance and low operational and logistics cost throughout its life cycle.

The whole system can be transported by land, sea or air (Aircraft C-130), being able to be completely disassembled and relocated in a few days, requiring a minimum preparation of the installation site.

The radar can be operated locally, configuring a complete command, control and communications center on it-self; or remotely and networked into a multi-sensor command and control system.

## MAIN FEATURES

- Pencil Beam Active Electronic Scanned Antenna with low side lobe level
- Solid state transmitter-receiver modules (TRM)
- Digital waveform generation, with intra-pulse frequency diversity
- High bandwidth frequency agility
- Independent pencil configuration including waveforms, burst parameters and processing type
- Configurable scan pattern (by sector)
- Advanced digital processing, including MTI, Doppler, clutter map, adaptive filtering.
- Azimuth and elevation monopulse
- Automatic acquisition and tracking of up to 600 simultaneous targets
- Full self-diagnosis (BIT) capability
- Integrated calibration tools
- Local and remote operation and monitoring
- Integrated secondary interrogator
- Monoradar Processor for radar data fusion (SSR-PSR)
- Ground to air communications system, with relay function.
- Optional radome

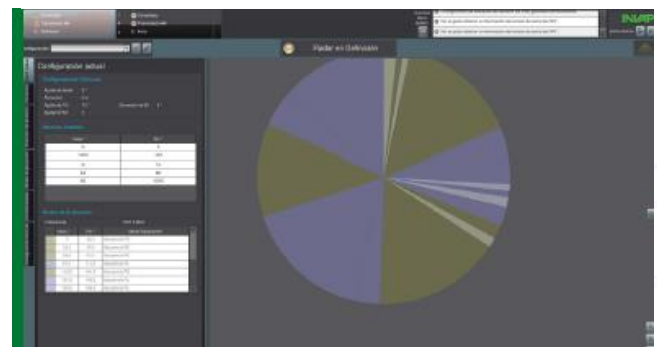
## INTERFACES

- Data output: ASTERIX, or custom defined
- Configuration and control: Intuitive user friendly graphical interface



### SCODA C2 software

- Designed for Surveillance, Identification and Control activities
- Detection analysis tools
- Static and dynamic measurements
- Interception assistance.
- Data exchange with other terminals in the system
- Support for digital maps, points of interest, air routes and user defined work areas
- Multi-radar support
- Integrated communications tools
- Radar data recording and playback



Configuration and control software



Diagnostics console

## SPECIFICATIONS

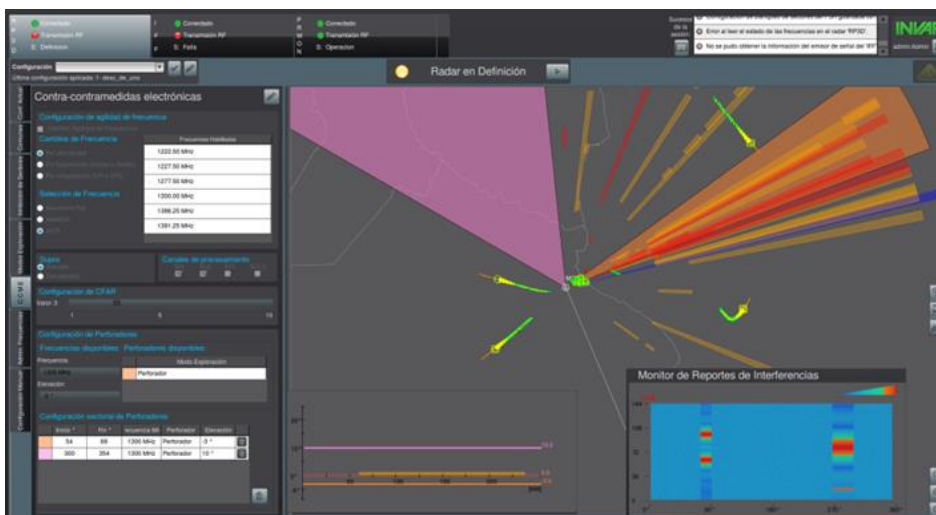
Frequency:	Banda L (D)
Instrumented range:	240NM
Accuracy:	<0,2°
Altitude	100Kft
Scan rate:	6 RPM
Simultaneous target tracking capacity:	> 600
MTBCF	> 1500 hour
MTTR	< 1 hour
IFF modes	1,2,3/A, C, S (4 and 5 optional)



Fixed tower installation



Mobile trailer deployment



## Advanced Electronic Counter-Counter Measures (ECCM)

- Interference analysis with automatic frequency selection
- Interference DOA reports (Jam-strobe)
- Side lobe blanking
- Side lobe interference detection with adaptive cancelling
- Pulsed interference detection and cancelling
- Burnthrough mode



Transportable light base installation



C-130 transportation

