



## PAR 2090C PRECISION APPROACH RADAR

PAR 2090 C is an X-band, ground controlled Precision Approach Radar (PAR), designed to provide efficient and accurate tracking of over 32 targets, controlling up to 8 runways with a field-of-view of 10° in elevation and an azimuth coverage of +/-15°. With a modular and open architecture and extensive use of COTS components, PAR 2090 C offers reduced maintenance costs and easy growth capabilities.

PAR 2090 C is available in two variants:

- PAR 2090 CF fixed sheltered, transportable
- PAR 2090 CM mobile for rapid deployment.

Remotely commanded, the high resolution display console delivers accurate detection and target discrimination. The radar performs in all-weather conditions and provides excellent clutter rejection.

The PAR 2090 C radar operates with azimuth resolution and accuracy exceeding ICAO requirements and utilises the latest technology in order to provide high reliability and rapid deployment. The mobile variant (PAR 2090 CM) features automatic antenna deployment whereas the fixed variant (PAR 2090 CF) is manual.

The entire radar head is integrated in a single shelter (with sliding shoes), it is capable of being transported by a C130 airlifter, and can be integrated on land and sea platforms. The mobile shelter is equipped with auxiliary wheels.

### KEY FEATURES

- Multiple landing control
- Fast runways changes
- Track-While-Scan
- Fully coherent transmit/receive system
- Excellent clutter rejection
- Excellent accuracy and discrimination
- Normal weather and heavy rain modes
- Fully redundant RT / TX / PX / data transmission
- High availability and reliability
- Easy maintenance and low support cost feature)
- Clutter mapping and synthetic representation.

### GROWTH CAPABILITIES

- Meteo map
- Surveillance mode
- Long range modes

## TECHNICAL CHARACTERISTICS

### Radar Head shelter & Operator shelter

Shelter ISO:	2438 x 2438 mm (section)
	ISO corner fitting
Weight:	<9500 Kg (Radar Head shelter)
Operative temperature range:	from -20° to +45° C
Storage temperature range:	from -32° to +58° C
Relative humidity:	100% <35° and 65% > 35° C
Compliant to MIL STD 810E methods:	505.3, 506.3, 521.1, 509.3, 510.3
EMI/EMC as per MIL STD 461E	
Power:	400 VAC and 230 VAC - 3 phases
Data transmission link between Operators room/Radar Head:	F.O., Telephone cable, Radio Link



### Radar Performance

	ICAO requirements	PAR 2090 C
Azimuth resolution:	1.2°	1.0°
Elevation resolution:	0.6°	0.6°
Range resolution	< 120 m	< 100 m
Azimuth accuracy:	< 6 mrad	< 6 mrad
Elevation accuracy:	< 4 mrad	< 4 mrad
Range accuracy:	Error < 3% of range	Error < 2% of range
Normal weather range scale:	20 nmi	
Heavy rain range scale:	10 nmi	
Long range scale:	40 nmi (optional)	



### Man Machine Interface

Friendly configurable HMI

TFT displays in various sizes

Soft keys controls

Touch screen capability

Recording system

Training mode

System help online

UPS

