Precision approach radar - RP-5GI

Precision Approach Radar RP-5GI is designed to provide an approach path for precise alignment and descent guidance to the aircraft on final approach to a specific runway, through the interpretation and verbal instructions of a ground-based controller via ground to air radio.

OVERVIEW

The system provides very high degree of resolution in terms of range, azimuth and elevation. Target information is displayed on the screen with independent azimuth and elevation windows. The display provides an accurate information regarding aircraft's range, azimuth, and glide slope together with auxiliary information such as deviations from descend path, radial speed of target and safety alerts.

MAIN FEATURES

- ICAO compliant
- Derived weather processing
- Fully digital signal and data processing
- Adaptive MTI filtering
- Operation in time-frequency diversity mode
- Graphical control and monitoring system
- Low operation and maintenance demands
- Robust and well proven antenna system
- Modular design suitable for customization
- Designed for unattended round-the-clock operation
- PAR with excellent price/performance ratio

KEY TECHNICAL PARAMETERS

Coverage		
Range	0 to 20 NM	
Elevation pattern	-1° to +9°	
Azimuth pattern	-15° to +15°	
Accuracy (RMS)		
In range	30 m +3% of the distance from the touchdown point	
In azimuth	0.6% of the distance of the aircraft from the antenna +10% of aircraft deviation from the course line, or 9 m (whichever of them is greater)	
In elevation	0.4 % of the distance of the aircraft from the antenna +10% of aircraft linear deviation from the selected glide path, or 6 m (whichever of them is greater)	
Resolution		
In range	120 m	
In azimuth	0 to 1.2°	
In elevation	0 to 0.6°	
Detection probability	> 90 % (@ RCS = 2 m2; PFA = 10-6)	
Data update rate	< 1 sec	
Maximum number of targets	100	
Frequency range	9150 – 9450 MHz	
Antenna		
Type	2 x reflectors, mechanical scanning	
Beam width (az/el)	0.65°/0.45°	
Gain (az/el)	40 dBi/38 dBi	
Polarisation	linear/circular	

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