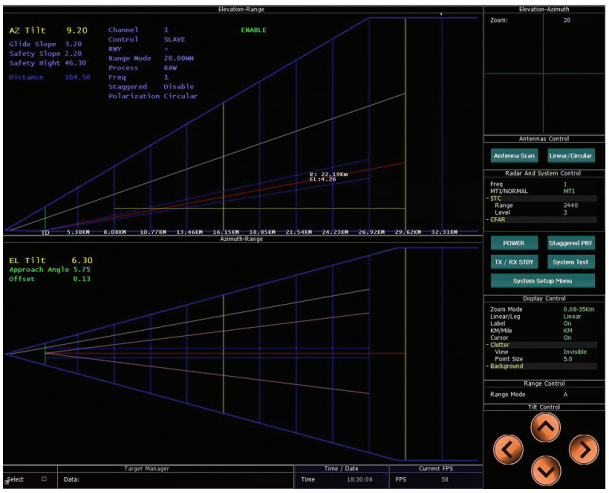
DESCRIPTION

Precision Approach Radar (PAR) is a type of radar guidance system designed to provide lateral and vertical guidance for an aircraft pilot during landing, until the landing threshold is reached. After the aircraft reaches the Decision Height (DH) or Decision Altitude (DA), guidance is advisory only. This system is used in air traffic control and precision guidance of aircrafts and helps pilots keep the aircraft on course and glide path during final approach.
PAR-X30 is one of the most important sensors in Air Traffic Control Systems and plays a very important role in providing the flight safety, especially in landing operation, for both civil and military aircrafts. This system is a very high precision, 3D system working in X-band frequency and specifically designed to help pilots in landing fighters even on the shipboards.

FEATURES

- Increasing the flight safety during the landing especially at night, rainy and dusty weather.
- Checking and controlling the aircraft function and guiding the aircraft in three dimensions (range, azimuth, altitude) on the airport glide path from the landing point to the distance of up to 30 km.
- Communicating with other airport radars such as PSR and SSR.
- Checking and measuring flight altitude in order to improve the landing operation.
- Being full function remote controlled and monitored in air traffic control tower through optical or radio links.



TECHNICAL FEATURES

Operation frequency		X-Band (9.0 GHz ~ 9.2 GHz) In 10 channels
Antenna	Azimuth	Beam width: 0.85°x3.5° Max gain: 38.5 dB (in linear polarization)
	Elevation	Beam width: 0.65°x3° Max gain: 39.5 dB (in linear polarization)
Transmitter	Type	Fully solid State
	Peak power	100 W
Receiver	Type	Full coherent solid state
	Noise figure	3.5 dB
Environmental Conditions	Temperature	Indoor: -10°C ~ + 45°C Outdoor: -30°C ~ + 60°C
	Humidity	90% @ 40°C
	Wind speed	90 km/h (operation) 120 km/h (non-operation)
Power Supply		380 VAC (50 Hz ~ 60 Hz), 3 phase, Max input: 10 kw
MTBF		≥ 2000 h
MTTR		≤ 45 min
Turntable		200°