



ITT

PAR/GCA Product Line

Ground Control Approach Radar Systems

Provides military and civil ATM services, 24/7, in all weather conditions

Capable of "rapid global response" for all contingency operations

Available in fixed, transportable and mobile variations



Engineered for life

PAR/GCA Product Line

Precision Approach Radars

ITT radar provide highly accurate area surveillance and precision approach landing services in the immediate area around airports. ITT Corporation is the world's leading supplier of Precision Approach Radars with over 60 PAR and GCA-2000 units fielded since the late 1990s.

- Solid-state gallium arsenide transmit/receive modules
- Modular, open system architecture
- Accurate operation in severe environments including adverse weather conditions
- Unique 3-level weather display
- Change of runways in less than a minute
- Option to control system functions remotely
- High availability and superior reliability through use of COTS processors
- Available in fixed, transportable and mobile versions
- Fully ICAO compliant
- Built-In-Test (BIT) monitoring
- GPS time synchronization



PAR-2000

The PAR-2000 is a Precision Approach Radar designed with all the accuracies to guide aircraft to a safe landing in extreme environmental conditions.

PAR-2000 Specifications

Coverage	Azimuth 30°, Elevation -1° to +7°
Range	20 nmi in Clear Mode 15 nmi in Rain Mode
Update Rate	<1 per second
Target Speed	40 to 240 knots



GCA-2000

The GCA-2000 adds an airport surveillance and secondary surveillance radar capability to control the immediate area around an airport or airfield.

- Simultaneous ASR/SSR/PAR operations
- Accurate display of both types of radar data
- Exportable CD-2 or Asterix data interface

GCA-2000 & MPN-25 Specifications

PAR Performance	Azimuth 360°, Elevation 0° - 20° Altitude 0 - 8,000 feet
ASR Range	30 nmi in Clear Mode 19 nmi in Rain Mode
ASR Update Rate	<5 seconds (antenna rotation 60 rpm)
SSR Coverage	Azimuth 360°
SSR Range	100 nmi
SSR Update Rate	Each 4 seconds (antenna rotation 15 rpm)



MPN-25

The MPN-25 is a GCA-2000 repackaged into a highly mobile integrated ASR/SSR/PAR system.

- Same performance as GCA-2000
- Achieves operational status in less than 90 minutes
- Deployable via C-130 aircraft



PAR-Tactical

Our fully mobile PAR is based on our PAR-2000.

- Rapid deployment in C-130 aircraft
- Digital communications suite consisting of UHF/VHF radios, landlines, voice recorder and intercom
- PAR antennas and electronics located in the one-position shelter
- PAR shelter, mounted on a turntable, providing easily selectable six-runway coverage

Display Automation

All of our solid-state radar systems feature:

- Versatile, multimode digital color displays
- PAR and ASR mode can be assigned individually based on traffic needs
- Off-the-shelf FAA certified ASR and USAF accepted PAR software, presented on high resolution, full color displays
- PAR display provides three dimensional landing information in a state-of-the-art digital Az-El format
- Flicker-free displays usable in normally lit work areas
- Patented display includes an innovative "bulls eye"



Radar Assisted Instrument Landing System (RAILS)

RAILS utilizes the ground-based PAR to determine the horizontal and vertical deviations of a specific aircraft:

- The aircraft ILS receiver interprets them as normal ILS signals
- Multiple Runway Coverage
- Combined PAR/RAILS Operation



ITT

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