PRECISION APPROACH RADAR PAR-2020

MILITARY AIR TRAFFIC CONTROL RADAR

TACTICAL AIR TRAFFIC MANAGEMENT

BENEFITS

Provides rapid global response and can be transported via air, land or sea anywhere in the world

Delivers high availability through Active Electronically Scanned Array (AESA) technology with transmit/receive modules

Supports six runway approach directions for rapid, precision landings

Deploys in fixed, transportable and mobile configurations for versatility

During inclement weather, pilots and air traffic control must have critical information for safe landings.

Precision Approach Radar (PAR) provides accurate azimuth and elevation position for approach and landing aircraft. Harris' PAR-2020 radar provides precision approach landing services worldwide.

Harris provided the first PAR to the U.S. Army Air Corps in 1943 to help pilots land safely during inclement weather. Our PAR-2020 series continues to evolve through the process of progressive technical refresh, which provides the best available technology with long-term, cost-effective sustainability. The Harris AESA PARs are in use globally by over 20 armed services.

Today, Harris is the world's leading supplier of Precision Approach Radars with more than 2500 PAR systems fielded over the past 75 years.

RAPID DEPLOYMENT

The Harris PAR-2020 system deploys quickly in challenging, rapidly evolving conditions to ensure mission success.

PROVEN

Harris' solution provides pilots and air traffic controllers confidence for safe landings even in the most severe weather conditions.

MISSION TESTED

The Harris system is field proven for survivability and is easy to operate and maintain in harsh environments.

PRECISION APPROACH RADAR (PAR) SYSTEMS

FEATURES

Fully compliant to ICAO Annex 10, Section 3.2 precision approach radar

Category II, 100-foot decision height, 0.25 nmi minimum

Coverage azimuth 30°, elevation -1° to +7°

Range 20 nmi in clear mode, 15 nmi in rain mode

Update period <1 second

Target speed 40 to 240 knots

Features of the current generation PAR-2020 / AN/FPN-68 include:

Technical

- Active Electronically Scanned Array (AESA) technology
- Solid-state gallium arsenide transmit/ receive modules
- Multiple waveforms and moving target detector (MTD) processing
- Modular, open system architecture
- Graceful degradation
- Extensive built-in-test (BIT) capabilities

Operational

- Proven reliable, safe CAT II operation in low-visibility conditions
- Available in fixed, transportable and mobile configurations
- Changes to one of six (6) runway ends in less than three minutes
- Deployable via a single C-130H aircraft for expeditionary deployment with interim control via radio. Full operations with two C-130H aircraft loads.
- Three-level weather display
- Fully compliant to ICAO Annex 10, Vol. I, 3.2, Specification for precision approach radar system

USER-FRIENDLY DISPLAY AUTOMATION SYSTEM

Off-the-shelf US DoD / NATO-accepted PAR Human Machine Interface (HMI), to ease controller work load

OPTION

Radar-Assisted Instrument Landing System (RAILS) - RAILS uses the ground-based PAR 2020 / AN/FPN-68 to determine the horizontal and vertical deviations of a specific aircraft and transmits that data on a standard instrument landing system (ILS) frequencies.

- The aircraft ILS receiver interprets PAR data as normal ILS signals
- Multiple runway coverage (three (3) minutes to change to one (1) of six (6) runway ends)
- Combined PAR/RAILS operation
- Supports multiple glideslopes

About Harris Corporation

Harris Corporation is a leading technology innovator, solving customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers around the world.

Learn more at harris.com.

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HARRIS® TECHNOLOGY TO CONNECT, INFORM AND PROTECT™