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.
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

PRECISION APPROACH RADAR (PAR) SYSTEMS

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

**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](http://harris.com).