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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
- Seamless interface into the FAA National Air Space (NAS) system with the MACS-common Terminal Automation System (MTAS)
- 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 “bullseye”

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

Table:

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PAR Performance</td>
<td>Same as PAR-2000</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>ASR Coverage</td>
<td>Approx. 360°</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Azimuth 0° - 360°</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Elevation 0° - 20°</td>
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<td>Altitude 0 - 9000 feet</td>
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<td>ASR Range</td>
<td>20 nautical mile Mode</td>
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<td></td>
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<tr>
<td>25 nautical mile Mode</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>ASR Update Rate</td>
<td>&lt; 5 seconds (antenna rotation 60 rpm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSR Coverage</td>
<td>Approx. 360°</td>
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<td></td>
<td></td>
<td></td>
</tr>
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<td>Azimuth 0° - 360°</td>
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<tr>
<td>SSR Range</td>
<td>60 - 250 nautical miles depending on interrogator selected</td>
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<td></td>
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<td></td>
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<tr>
<td>SSR Update Rate</td>
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**Precision Approach Radars**

ITT radars provide highly accurate area surveillance and precision approach landing services in the immediate area around airports. ITT Industries 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 monitoring

### 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**

<table>
<thead>
<tr>
<th>Coverage</th>
<th>Azimuth 30°</th>
<th>Elevation -1° to +7°</th>
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<tbody>
<tr>
<td>Range</td>
<td>20 nmi in Clear Mode</td>
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<tr>
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### GCA-2000

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

**GCA-2000 Specifications**

| Coverage | | |
|----------|| |
| Range    | | |
| Update Rate | | |
| Target Velocity | | |

### Airport Surveillance Radars

ITT pioneered the development of the ASR in 1942 and continues to build the best performing compact terminal sensor in the world.

**Key features for the ASR product line are:**

- Excellent target detection and false alarm control
- Continuous operation through automatic switching
- Frequency agility
- High-stability transmitter
- Digital Moving Target Detection (MTD) doppler processing
- Six-level weather per National Weather Service (NWS)
- High reliability and easy maintainability through a modular, redundant system design
- Built-in monitoring
- Available in fixed or mobile configurations

### TASR

The Terminal Airport Surveillance Radar (TASR) is a light weight, high-performance airport surveillance and gap-filler radar, designed for demanding military terminal control requirements where size and weight are critical. Its performance compares to fixed-site civil airport sensors. The modular design allows the tailoring of the configurations based on operational requirements.

**TASR Specifications**

| Sensor & Range Options | | |
|------------------------|| |
| VHF Range | 0.5 nmi to 140 nmi |
| VHF 18-30 MHz Range | 0.5 nmi to 20 nmi |
| VHF 30-50 MHz Attitude | 0° - 30° | 20,000 feet |
| VHF 50-Attitude | 0° - 30° | 20,000 feet |
| UHF Range | 0.5 - 200 nmi depending on interceptor |
| Update Rate | Each 6.8 seconds (12.5 line rate refresh) |

### MPN-26

The Mobile Approach Control System (MACS) is the U.S. Air Force’s newest totally integrated tactical ATC system, featuring our solid-state S band ASR, an operations subsystem, and a fully mobile PAR.

**Additional features are:**

- Full integrated with FAA NAS system
- Digital communications suite consisting of UHF/VHF radios, landlines, voice recorder and intercom
- Designed for mobility, transportability and operation in harsh environments
- Rapid deployment in C-130 aircraft

**MACS PAR**

- Based on our solid-state S-band ASR and monopulse SSR
- Two controller positions
- Frequency selection in 7 MHz steps

**MACS PAR Operations Subsystem**

- Six multifunction controller positions
- PAR and SSR functions accessible on a single display
- Frequency selection in 7 MHz steps
- Digital communications

### Integrated System Solutions

**MPN-14K**

The MPN-14K is a fully integrated digital Radar Approach Control Facility with exceptional reliability and performance. The TASR-based airport surveillance radar, with the same capabilities of civil sensors, controls arriving and departing aircraft in the terminal area. The precision approach radar performs guided landings in all weather conditions. The operations equipment includes the latest display and communication automation equipment. The controller positions feature versatile, multicolored digital color displays and full communications to meet all controller mission requirements. To support transitioning to loading conditions, runway changes are handled by remote control. The mobile version houses the ASR and PAR antennas in a single trailer plus one full capability four-position shelter.
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- Excellent target detection and false alarm control
- Continuous operation through automatic switching
- Frequency agility
- High stability transmitter
- Digital Moving Target Detection (MTD) doppler processing
- Six-level weather per National Weather Service (NWS)
- High reliability and easy maintainability through a modular, redundant system design
- Built-in monitoring
- Available in fixed or mobile configurations

TASR

The Terminal Airport Surveillance Radar (TASR) is a light weight, high-performance airport surveillance and gap-filler radar, designed for demanding military terminal control requirements where size and weight are critical. Its performance compares to fixed-site civil airport sensors. The modular design allows the tailoring of the configurations based on operational requirements.

ASR & TASR Specifications

- TASR Range: 0.5 nmi to >60 nmi
- TASR-SR Range: 0.5 nmi to >30 nmi
- TASR Altitude: 0° - 30°; 0 to 30,000 feet
- TASR-SR Altitude: 0° - 30°; 0 to 20,000 feet
- SSR Range: 60 - 200 nmi depending on interrogator
- Update Rate: Each 4.8 seconds (12.5 rpm antenna rotation)

MPN-14K

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Integrated System Solutions

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MACS-ASR

- Based on our solid-state S-band ASR and monopulse SSR
- Two controller positions
- Frequency selection in 7 MHz steps

MACS PAR

- Based on our PAR-2000
- Compact robust design
- PAR antennas and electronics located in the one-position PAR shelter
- PAR shelter, mounted on a turntable, providing easily selectable six-runway coverage
- Frequency selection in 7 MHz steps

Operations Subsystem:
- Six multifunction controller positions
- PAR and ASR functions accessible on a single display
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Integrated System Solutions (Cont’d)
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PAR-2000 Specifications

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<tr>
<th>Coverage</th>
<th>Azimuth: 30°, Elevation: -1° to 7°</th>
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<tr>
<td>Range</td>
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<tr>
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<tr>
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</tr>
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- Available in fixed or mobile configurations

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ASP & TASR Specifications

<table>
<thead>
<tr>
<th>TASR Range</th>
<th>0.5 nmi to &gt;60 nmi</th>
</tr>
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<tbody>
<tr>
<td>TASR-SR Range</td>
<td>0.5 nmi to &gt;30 nmi</td>
</tr>
<tr>
<td>TASR Altitude</td>
<td>0° to 30°, 0 to 30,000 feet</td>
</tr>
<tr>
<td>TASR-SR Altitude</td>
<td>0° to 30°, 0 to 20,000 feet</td>
</tr>
<tr>
<td>SSR Range</td>
<td>60 - 200 nmi depending on interrogator</td>
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- Frequency selection in 7 MHz steps

Operations Subsystem:
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- PAR and ASP functions accessible on a single display
- Frequency selection in 7 MHz steps
- Digital communications

Integrated System Solutions (Cont’d)

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Gilfillan
Air Traffic Control

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<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Radar Performance</td>
<td>Same as PAR-2000</td>
</tr>
<tr>
<td>ASR Coverage</td>
<td>160° x 20°</td>
</tr>
<tr>
<td>Altitude</td>
<td>0 - 20,000 feet</td>
</tr>
<tr>
<td>ASR Range</td>
<td>20 nmi (Clear Mode)</td>
</tr>
<tr>
<td></td>
<td>25 nmi (Rain Mode)</td>
</tr>
<tr>
<td>ASR Update Rate</td>
<td>1 second/1° rotation (60 x 60)</td>
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<td>SAR Coverage</td>
<td>Approx. 360°</td>
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<td>SAR Range</td>
<td>60 - 250 nmi depending on interrogator selected</td>
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<tr>
<td>SAR System Rate</td>
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GCA-2000 & MPN-25 Specifications:
- PAR performance: Same as PAR-2000
- ASR Coverage: Azimuth 360°
- Elevation: 0° - 20°
- Altitude: 0 - 8,000 feet
- ASR Range: 20 nmi in Clear Mode
- 25 nmi in Rain Mode
- ASR Update Rate: < 5 seconds (antenna rotation 60 rpm)
- SSR Coverage: Azimuth 360°
- SSR Range: 60 - 250 nmi depending on interrogator selected
- SSR Update Rate: < 5 seconds (antenna rotation 12.5 rpm)

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MPN-25
GCA-2000
PAR-2000
GCA-2000
MPN-25
PAR
MPN-14K
MPN-20 (MACS)

Display Automation
GCA-2000 & MPN-25 Specifications
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