Ship-based Identification Friend or Foe (IFF) from ANPC
model 1590

ANPC’s product the ship-based IFF provides dependable aircraft identification at sea, for all transponder equipped aircraft
Introducing SEA IFF model 1590
Accurate, rugged and reliable.

100 NM Identification Range
With compact sensors and small antenna footprint, the tracking range extends beyond 100 NM.

Small Installment
The ANPC SEA IFF has the smallest footprint of any identification system and provides the best benefit for the cost to:
- Minimized number of antennas
- Minimized maintenance logistics
- All electronics equipment in one secure area
- Optimal accuracy and coverage
SEA IFF uses ship-based sensors to determine aircraft identification

**Key product features**

- Area surveillance using transponder multilateration
- All antennas fit on perimeter of the ship
- Remote Status and Control Unit
- High-resolution graphical display
- Fully ICAO compliant

**Ruggedized**

- Environmentally controlled Base Station shelter
- Heavy duty composite radome construction
- Stainless steel hardware
- Maintenance technician workstation and tool storage
- Rugged cables and connectors

**SEA IFF components**

The ANPC SEA IFF is comprised of the following equipment:

- **Base Station Electronics Rack including:**
  - rack computers
  - Maintenance console
  - Interrogation transmitter
  - Uninterruptable Power Supply (UPS)
  - Backup batteries
- Sensor Antennas qty 1
- Built-in-Test Antenna qty 1
- Interrogation antenna qty 1
- Power and fiber Ethernet network fiber-optic cabling
# SEA IFF Technical Characteristics

<table>
<thead>
<tr>
<th>IFF Surveillance</th>
<th>Mode 1, 2, 3 and Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aircraft Capacity</td>
<td>Max 300</td>
</tr>
<tr>
<td>Probability of Detection</td>
<td>&gt;98%</td>
</tr>
<tr>
<td>False Targets</td>
<td>&lt;0.1%</td>
</tr>
<tr>
<td>Service Volume</td>
<td>60 NM</td>
</tr>
<tr>
<td>Altitude</td>
<td>Mode C</td>
</tr>
<tr>
<td>Frequency</td>
<td>1030 MHz Interrogation / 1090 MHz Transponder</td>
</tr>
</tbody>
</table>

## Environmental Conditions

<table>
<thead>
<tr>
<th>Indoor</th>
<th>Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>0°C to 50°C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>Max 90%</td>
</tr>
</tbody>
</table>

- **Wind**: 200 km/h
- **Ice**: Up to 1.25 cm

## Power Supply

- **Input Voltage**: 85-265 VAC 47 to 63 Hz
- **Power Consumption**: 1.5 KW
- **Battery Voltage**: 24 V