

SPN-720 SHIPBORNE PRECISION APPROACH RADAR

In response to the requirements of fast take-off and recovery of aircraft, the SPN-720, a naval precision approach radar has been developed. The radar is able to provide safe and reliable final approach and deck landing guidance for aircraft during day/night and in adverse weather conditions.

The SPN-720 offers CV NATOP Mode III landing, manual approach, during which the radar controller relays continuous updates to the pilot on his position and direction via a secure VHF Channel.

The SPN-720 employs an I-band Doppler radar with coherent solid state transceiver, utilising frequency agile monopulse tracking at an operating range of 12 nautical miles. The antenna is fitted on a stabilised gimbal which automatically locks onto the landing aircraft.

The SPN-720 can be operated as a stand-alone system or it can be integrated with the ship Combat Management System as it is capable of automatically correcting the parallax error between the radar location and the landing path.

The SPN-720 can provide simultaneous control of two aircraft. Low Probability of Interception is ensured by minimal radiated power.

The SPN-720 Man-Machine Interface features two consoles (master and slave) with the following two displays each:

- The PAR Display
- The Air Search Display.

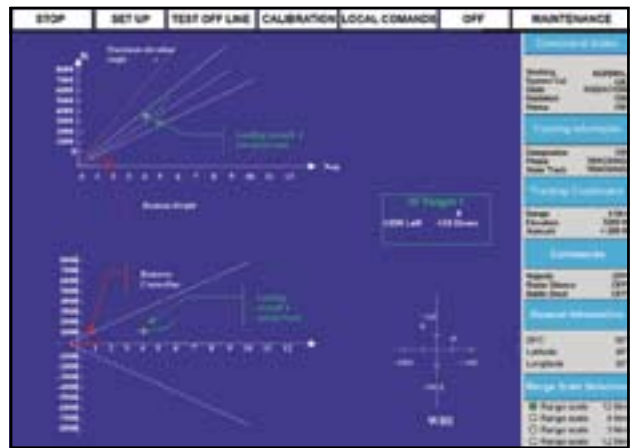


THE PAR DISPLAY

The PAR Display presentations are arranged as:

- Conventional azimuth vs elevation (Az-El) display format
- Width/Height Indicator with the error data set
- Messages and Information area.

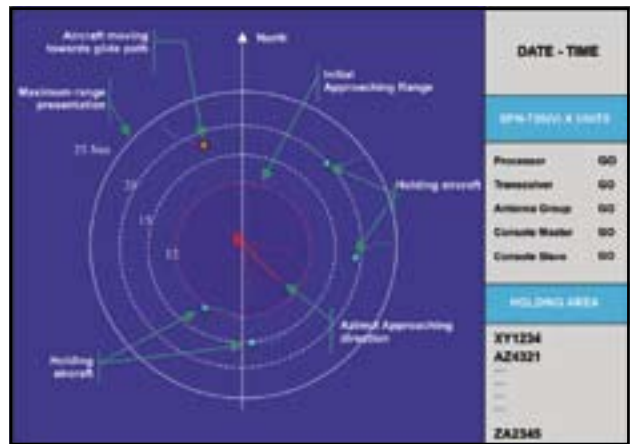
The Az-El Display tracks the A/C indicating its position with respect to the touchdown point, horizon sea level and runway centreline. The tracking data is updated every second. Width/ Height Indicator is centred on the glidepath to indicate aircraft offset/ error in azimuth vs elevation, within ± 6 deg az. and ± 600 ft el. from centreline. The Message and Information area displays commands, track status and information, system status; operational status, operational mode, range scale and general information.



PAR Display

THE AIR SEARCH DISPLAY

The Air Search Display presents the Operator with the tracks gliding around the ship in a range-azimuth presentation. Data received from the ship's main search radar, ship position and navigation parameters, are acquired by the PAR from the interface with the ship bus.



Air Search Display

TECHNICAL SPECIFICATIONS

Radar

Scanning Range	+/-20° azimuth; 0°-8° in elevation
Operating range	12 nmi – Decision Height (DH), min distance: 60 mt

Dimensions and Weight

Height	1200 mm
Width	1200 mm
Depth	1200 mm
Weight	300 Kg

For more information please email sales.marketing@selexgalileo.com

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