



# SAAB



## R5 SUPREME NAV

THE R5 SUPREME NAVIGATION SYSTEM IS AVAILABLE IN BOTH GPS AND DGPS VERSION

IMO require SOLAS class ships to carry type approved GPS equipment. Saab can offer the new generation R5 systems of IMO-compliant GPS and DGPS solutions, either as stand-alone Navigation Systems or as an addition to the family Saab R5 AIS systems.

The new R5 SUPREME NAV products are self-monitoring and extremely user friendly. The R5 SUPREME NAV system is utilizing the highly versatile R5 CDU and together with the proven R4 Sensor and modern antennas it represents one of the most flexible navigation systems on the market.

### R5 SUPREME GPS/DGPS SYSTEM

The R5 SUPREME NAV system provides the user with a flexible, future proof product. The large colour touch-screen display and multitude of interfaces make the system highly appropriate for integration into modern networked bridge solutions.

### FEATURES

- 7" ultra-bright high contrast colour touch LCD
- Touch, Keypad or USB keyboard control
- Display of latitude, longitude, speed over ground and course over ground
- Capability to handle and store up to 4000 individually named waypoints and up to 100 different routes
- Man Over Board (MOB) and Event Mark functionality
- Two trip log counters with indication of average speed and accumulated time during motion
- Scheduled Alerts, user configurable time alarms and time to ETA alarms

## TECHNICAL SPECIFICATION

### GENERAL

<b>Waypoints:</b>	4000
<b>Routes:</b>	128 (max 512 waypoints in each route)
<b>Functions:</b>	Support for multiple displays and redundant systems.
<b>Integrity:</b>	RAIM and Heartbeat Monitoring
<b>Power supply:</b>	Sensor; 24 VDC CDU; 12-24 VDC
<b>LEDs:</b>	Three 3-colour LED:s indicating RAIM and Alarm status.

### GPS RECEIVER

L1, C/A-code with carrier phase smoothing 12 channels (2 channels dedicated to SBAS)  
DGPS by SBAS or externally input RTCM corrections.

<b>Update rate:</b>	1 Hz default, 5 Hz max
<b>Position accuracy:</b>	GPS*; 5m, DGPS** 1m (2D RMS)
<b>Cold start:</b>	1 min typical

### DGPS BEACON RECEIVER

<b>Dual receiver:</b>	Manual or Automatic tuning
<b>Frequency:</b>	283.5 to 325.0 kHz
<b>MSK Bit Rates:</b>	50, 100, 200 bps
<b>Cold Start Time:</b>	< 1 minute typical
<b>Reacquisition:</b>	< 2 seconds typical
<b>Sensitivity:</b>	25 µV/m for 6 dB SNR @ 200 bps

### INTERFACE

Display  
Ethernet 10/100 Mbit  
3 RS-422 I/O  
3 Digital In, 3 Digital Out  
Pilot Plug  
USB 2.0  
SDHC Reader  
CAN / NMEA 2000 (option)  
Speed log output  
Alarm Binary Out Port  
Alarm Acknowledge Binary Port

### DIMENSIONS

<b>Control &amp; Display Unit:</b>	255 x 140 x 85 mm / 1.8 kg
<b>Navigation Sensor:</b>	128 x 39 x 137 mm / 0.5 kg

### CABLES

#### Cables used without R5 NAV Junction Box:

R5 Power Cable  
R5 Signal Cable DSUB-Open  
R4 NAV Sensor Cable

#### Cables used with R5 NAV Junction Box:

R5 Power Cable  
R5 Signal Cable DSUB-DSUB  
R5 Navigation Sensor Cable

#### Other Cables:

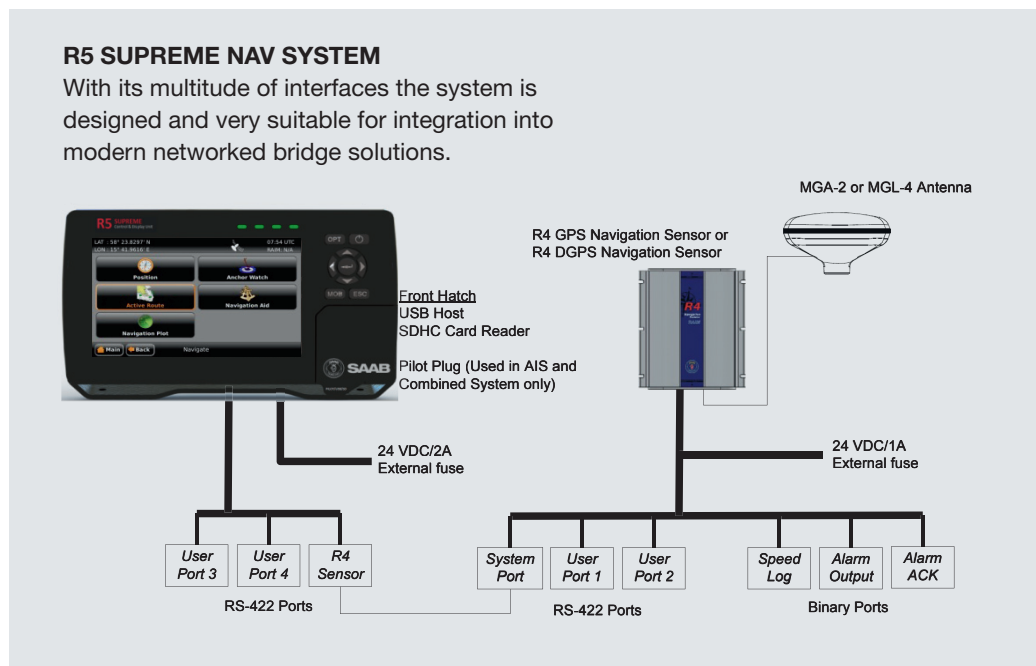
R5 Ethernet Cable

### ENVIRONMENTAL DATA

IEC 60945
<b>Operation temperature:</b> -15 °C to +55 °C

### COMPLIANCE WITH THE FOLLOWING STANDARDS

IMO Resolution MSC.112 (73)  
IMO Resolution MSC.114 (73)  
IMO Resolution A.694 (17)  
IMO Resolution MSC.191 (79)  
IEC 61108-1 Ed. 2.0 (2003)  
IEC 61108-4 Ed. 4.0 (2004)  
IEC 60945 Ed. 4.0 (2002)  
IEC 61162-1 Ed. 4 (2010)  
IEC 62288 Ed. 1.0 (2008)



Specifications subject to change without notice