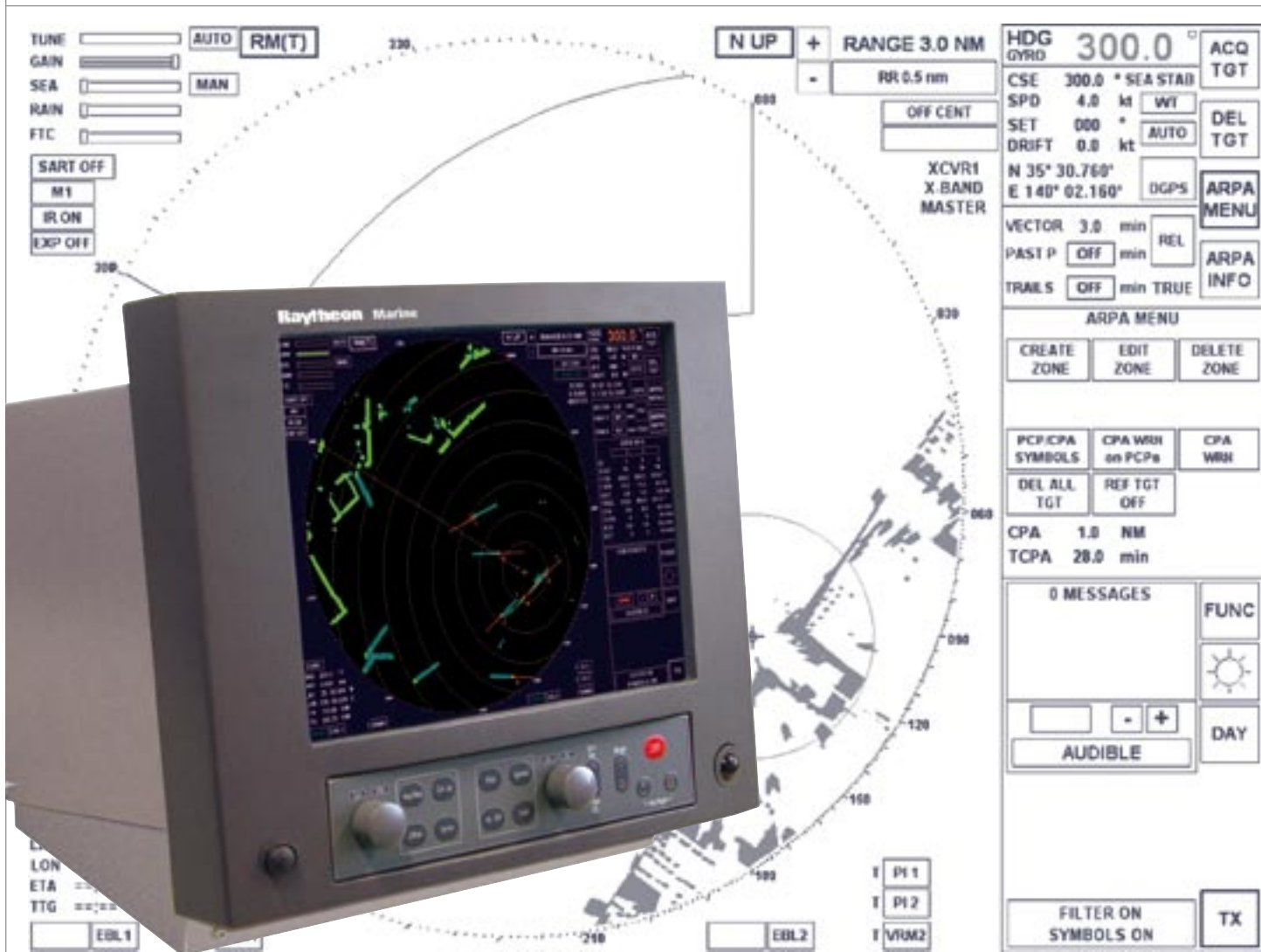


Navigational Radar System

NSC 18



Navigational Radar System

NSC 18

Latest Technologies

Besides the full ARPA functionality Raytheon's NSC 18 offers the same functionalities with a 9" display like the NSC 25 and 34. AIS targets can be shown on the radar, connections for a remote display or remote trackball are possible.

The high-resolution TFT colour display combines brilliant display quality and compact design with a long life time.

The clear structure of the user interface allows to concentrate on navigational tasks and provides reliable support concerning collision avoidance.

The NSC 18 as IMO 9" radar for vessels less than 1,000 gt complies to latest IMO regulations and requirements such as IMO Res. A.823 (19), MSC 64 (67) Annex 4 and A820 (19) - High Speed Craft Code

Raytheon Marine's worldwide sales and service network ensures product and service support wherever needed.

X-Band 6 ft Antenna Unit and Transceiver



NSC 18 Table Top



Benefits

- Extremely sensitive radar, also detects tiny targets such as small buoys or wooden stakes
- Clear structured user interface, provides all important information at a glance
- PC-technology based processor, compact design and easy to service
- Software-Updating quick and simple by USB-stick
- High resolution TFT colour display, combining brilliant display quality and compact design with a long life time



★ More than 200 Service Stations all around the world



Besides full ARPA-functionality the NSC 18 offers the same functions like the NSC ARPA radars NSC 25 and 34

Functions

ARPA Menu-Zones

Acquisition zone: An essential aid and source of information on assessing the situation. If a ship enters this zone, the target is automatically acquired and tracked.

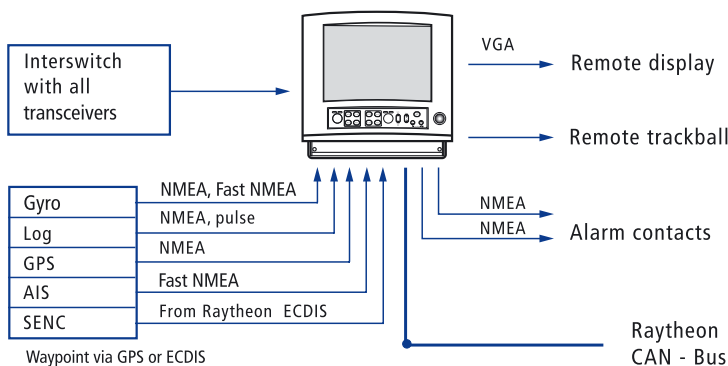
Guard zone: If an already tracked target enters this zone, a Guard Zone Alarm is activated.

Exclusion zone:

Excludes areas from automatic acquisition.

AIS

AIS targets can be displayed on the radar video, detailed information on targets can be shown on request and alarms for lost or dangerous AIS targets will be generated. It is possible to display up to 3 targets: AIS Identifier No., Status, Course, Speed, Distance, True Bearing, Closest Point of Approach, and Time to Closest Point of Approach. The type of AIS Symbol shows if it is a sleeping target, a normal target, a selected target, a dangerous target or a lost target.



Standard Interfaces

- Large number of standard interfaces
- USB interface for external units or updating by USB stick
- CAN Bus (Controller Area Network)
- VGA video output to add remote display or connect VDR
- Alarm output via NMEA
- Heading Input from Gyro or GPS Compass via NMEA, Fast NMEA or Course Bus, optional via step or synchro
- SENC data input from Raytheon Marine's ECDIS



The NSC Radar Operator Panel provides turning knobs for quick and sensible operation of EBL (Electronic Bearing Line) and VRM (Variable Range Marker) or alternatively for Gain and Sea

Technical Data

	NSC 18
TFT Display Size	15"
PPI Diameter (IMO)	9" (180 mm)
Resolution	1224 x 768 pixel

Range	0.125 nm – 96 nm
EBLs	2
VRMs	2
Parallel Index Lines	2
Display Presentations	RM (R), RM (T), TM
Display Heading Modes	H Up, N Up, C Up, R Up
Gyro Input	NMEA, Fast NMEA, course bus, option: step / synchro
Log Input	NMEA, pulse log
Display Voltage	24 V DC + 30% - 10% (acc. to IEC60945)
Power Display	350 W peak, 200 W operation (incl. transceiver and scanner motor)

Display

	X-Band (3 cm)
Performance	10 kW, Up
Peak Power (kW, typ.)	10
Dynamic Range (dB)	100
Intermediate Frequency (MHz)	60
PRF (pulse repetition frequency) (Hz)	3200
Receiver Band Width (MHz)	20
Receiver Noise (dB)	6.0
Pulse Width (µsec)	Short: 0.08, Med 1: 0.3 Med 2: 0.6, Long: 1.2

Transceiver

- Optional:**
- 25 kW X-band transceiver with 7 or 9 ft antenna
 - 30 kW S-band transceiver with 12 ft antenna

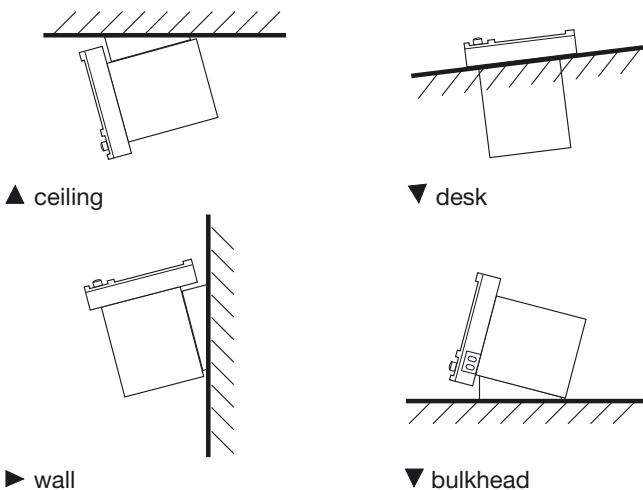
Frequency	X-Band
Scanner size	6 ft
Horizontal Beam Width	1.2 deg
Vertical Beam Width	25 deg
Gain (dB)	29 dB
Polarization	horizontal
Rotation Rate (RPM)	22 (optional 40 rpm)
Wind Load	100 kts

Antenna

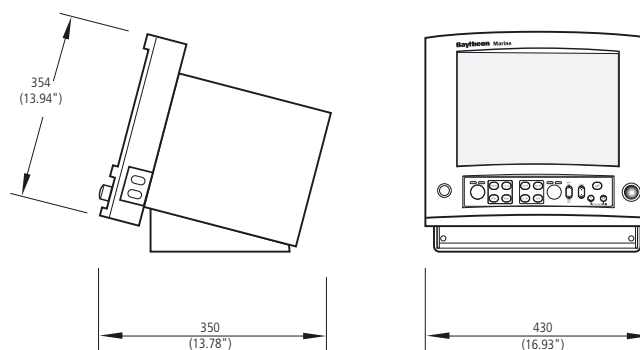
Dimensions and Weights

NSC 18 Table Top	approx. 17.5 kg
6 ft Antenna Unit	5.8 kg
10 kW X-Band Transceiver	14.5 kg

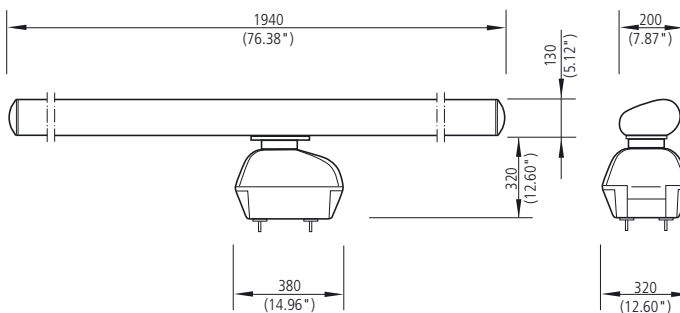
Multiple ways of installation



Navigational Radar System NSC 18



X-Band 6 ft Antenna Unit and Transceiver



Subject to alteration due to technical developments without notice.

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