

navtiX

KNR-1x00 Marine Radar



KRT-6022 6kW/6ft Open Array Radar Scanner



KRA-1006 4kW/24in Radome Radar Antenna



10.4" or 12.1" Display available

- Glass-bridge modern concept design
- 10.4" & 12.1" high resolution portrait color LCD display unit
- High output power delivers long range detection and excellent targets separation
- Advanced radar echo signals processing to improve the small targets detection
- True echo trail functions
- Quick & easy access knobs for intuitive operation
- Optimized sea clutter algorithm making it easier to distinguish small targets from waves
- Built-in TT (ARPA) tracks up to 80 targets with data transmit
- Overlay AIS on radar image
- Easy operation with multi-languages screen menu
- IPX6 Waterproof design



Specifications

Radar Scanner

Type	Slotted waveguide array
Radiator Length	KRT-6022: 4ft, 6ft KRA-1006: 24in
Polarization	Horizontal
Rotation	24 RPM
Beamwidth	KRT-6022: Horizontal 1.2°, Vertical 22° KRA-1006: Horizontal 5°, Vertical 25°
Wind load	100kn relative
TX frequency & modulation	X-band 9410MHz +/- 30MHz P0N
Output power	KRT-6022: 6kW KRA-1006: 4kW
Pulse width & application ranges	0.08 μs/ 2100Hz (0.125, 0.25, 0.5, 0.75, 1, 1.5*nm) 0.3 μs/ 1200Hz (1.5*, 2, 3nm) 0.8 μs 600 Hz (3*, 4, 6, 8, 12, 16, 24, 36, 48, 64nm) * Pulse width & repetition frequency of 1.5nm to 3nm can be selected in menu
Modulation	FET switch
IF:	60MHz
Noise figure	10dB

Display Unit

Screen size	10.4" or 12.1" color LCD
Display resolution	1024 x 768 pixels
Min range	Less than 30m
Max range	KRT-6022: 72nm@6kW, KRA-1006: 48nm@4kW
Azimuth Resolution	KRT-6022: 1.2° KRA-1006: 5°
Distance Resolution	Less than 30m or 1% of the range
Azimuth Accuracy	+/- 1°
Presentation mode	Head-Up, North-UP, Course-Up, True motion
Target tracking (ARPA/TT)	Auto & manual acquisition: 80 targets
AIS	700 targets
Echo trail True/Relative	Trail length: 0/15/30 sec, 1 to 30 mins or continue
Interfaces	NMEA0183 2 ports USB 1 port LAN 1 port 100 BASE-TX HDMI 1 port

Data Input (NMEA0183) ABK, ACK, ALR, BBW, BWC, BWR, DBK, DBS, DBT, DPT, DTM, GGA, GLL, DHT, MTW, MWV, RMB, RMC, RTE, THS, VBW, VDM, VDR, VHW, VTG, VWR, VWT, WPL, ZDA

Data Output (NMEA0183) ABM, ACK, ALR, BBM, OSD, RSD, TLB, TLL, TTD, TTM, VSD

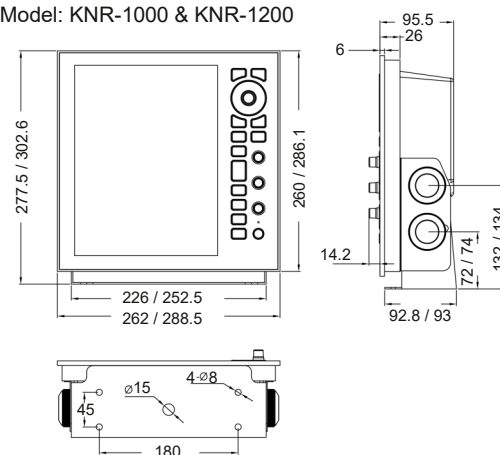
General

Power supply	24VDC @ 180W (Standby 40W)
Environment temperature	Scanner & Antenna: -25°C to +70°C Display unit: -15°C to +55°C
Waterproofing	Scanner & Antenna: IPX6 Display unit: IP22

Dimensions

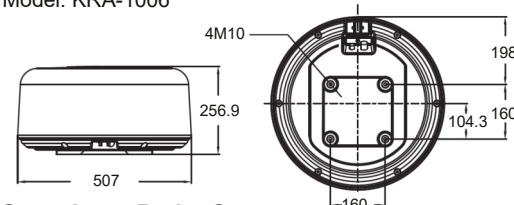
Display Unit:

Model: KNR-1000 & KNR-1200



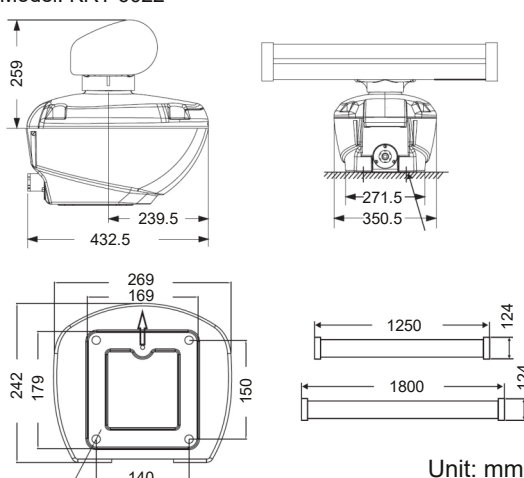
Radome Radar Antenna:

Model: KRA-1006



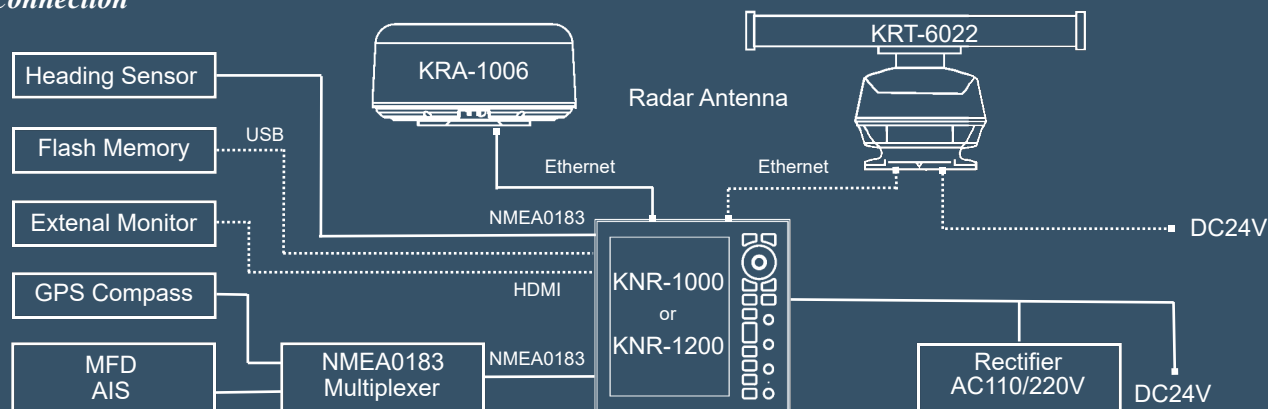
Open Array Radar Scanner:

Model: KRT-6022



Unit: mm

System Connection



Specifications may be subject to change without notice.

navtiX

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