

navtiX

NR-1x00 Marine Radar



KRT-6022 6kW Open Array Radar Antenna



KRA-1006 4kW Dome Radar Antenna

- 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



10.4" or 12.1" Display available

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 μ s/ 2100Hz (0.125, 0.25, 0.5, 0.75, 1, 1.5*nm) 0.3 μ s/ 1200Hz (1.5*, 2, 3nm) 0.8 μ s 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	
(Number of ports on display unit)	
NMEA0183	2 ports
USB	1 port
LAN	1 port 100 BASE-TX
HDMI	1 port
Data sentences (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
Input	ABM, ACK, ALR, BBM, OSD, RSD, TLB, TLL, TTD, TTM, VSD
Data sentences (NMEA0183)	
Output	

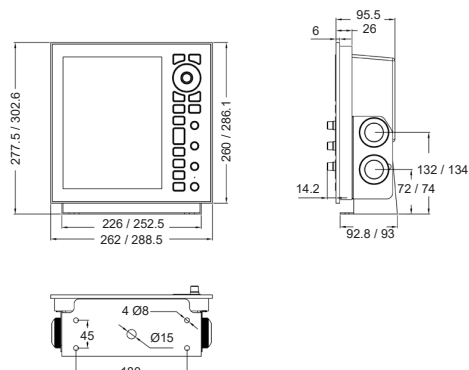
General

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

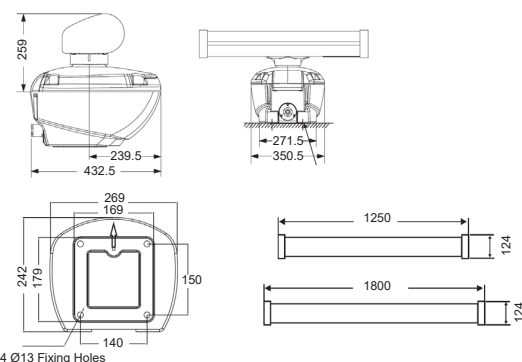
Display Unit

Model: NR-1000 & NR-1200

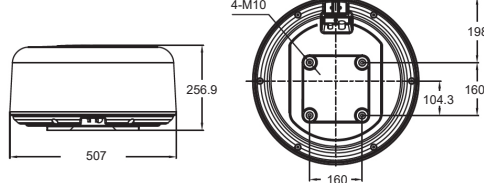


Radar Antenna

Model: KRT-6022

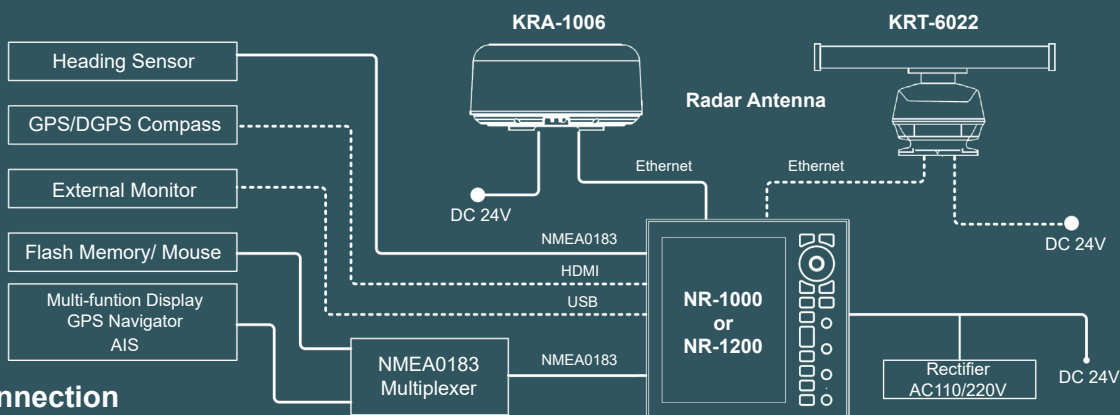


Model: KRA-1006



Unit: mm

System Connection



• Specifications may be subject to change without notice.

navtiX

www.navtix-marine.com

Shanwei Express Communication & Navigation Company Ltd.

Address: Zhongyang Building, Pubian Industrial Park
Hongcao Town, Shanwei City, Guangdong, China

Tel: +86 (660) 3413032

Fax: +86 (660) 3413083

ISO9001 ISO14001 Certified

navtiX authorized distributor