

navtiX

KSR-1938 IMO BB Radar

KRT-1222 12kW Open Array Radar Antenna



KRM-1001 Processor Unit



KRD-1910 19" Color LCD Display Unit



KRK-1121 Control Unit



Complies with SOLAS carriage requirements for vessels under 10000 GT, and fully meets MSC 192(79) radar performance standards.

- Designed to comply with new IMO & IEC regulations with 263mm effective diameter
- 19" high resolution portrait color LCD monitor
- 12kW 6ft open array scanner with up to 48RPM
- Quick & easy access knobs & trackball for intuitive operation
- Optimized sea clutter algorithm making it easier to distinguish small targets from waves.
- Built-in TT (ARPA) tracks up to 40 targets with data transmit
- Overlay AIS on radar image
- Easy operation by remote trackball unit
- Support HDMI & VGA video output

Specifications

Radar Scanner

Type	Slotted waveguide array
Radiator Length	4ft, 6ft
Polarization	Horizontal
Rotation	24 RPM or 48 RPM
Beamwidth	Horizontal 1.2°, Vertical 22°
Wind load	100kn relative
TX frequency & modulation	X-band 9410MHz +/- 30MHz P0N
Output power	12kW
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

Processor Unit

Min range	22m
Max range	96nm
Azimuth Resolution	1.2°
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: 40 targets
AIS	200 targets
Echo trail True/Relative	Trail length: 0/15/30 sec, 1 to 30 mins or continue
Interfaces	
IEC61162-1/NMEA0183	3 ports (Input)
USB	6 ports (Input/Output)
RS232C	3 ports (Input/Output)
RS422	2 ports (Input/Output)
LAN	1 port
HDMI	1 port
VGA	1 port
Data sentences (NMEA0183) Input	ABK, ACK, ALR, BWC, BWR, DBK, DBS, DBT, DPT, DTM, GGA, GLL, DHT, MTW, MWV, RMB, RMC, RTE, THS, VBW, VDM, VDO, VDR, VHW, VTG, VWR, VWI, WPL, ZDA
Data sentences (NMEA0183) Output	ABM, ACK, ALR, BBM, OSD, RSD, TLB, TLL, TTD, TTM, VSD

Display Unit

Screen size	19" color LCD
Display resolution	1280 x 1024 pixels
Radar effective diameter	263mm

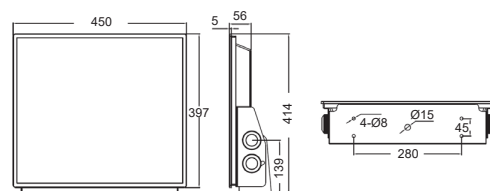
General

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

Dimensions

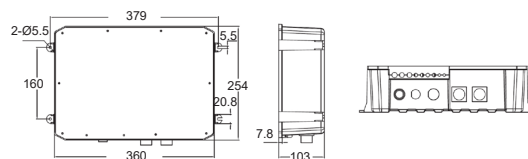
Display Unit

Model: KRD-1910



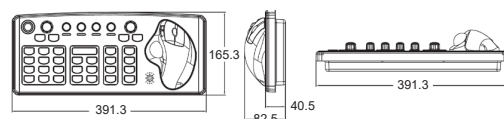
Processor Unit

Model: KRM-1001



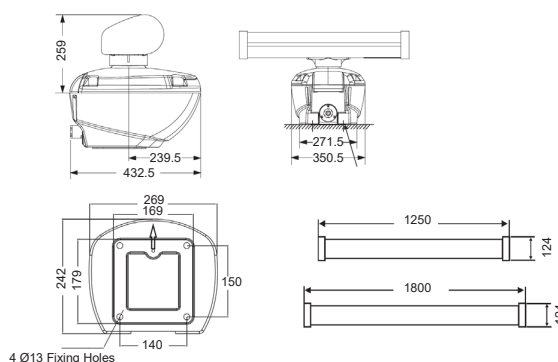
Control Unit

Model: KRK-1121



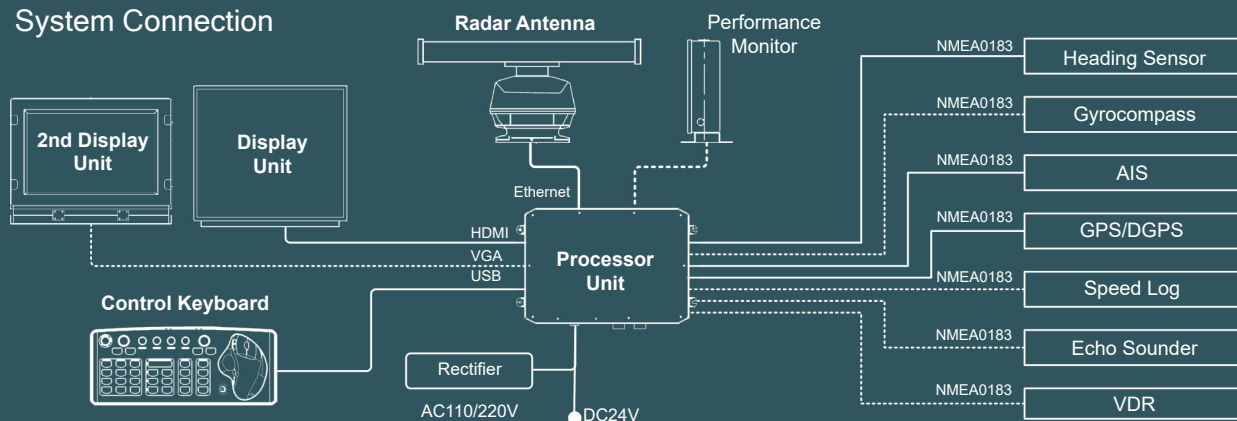
Radar Antenna

Model: KRT-1222



Unit: mm

System Connection



● Specifications may be subject to change without notice.

navtiX

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