

ONWA®

19 inches Color LCD Marine Radar/with AIS Display/Target Tracking (ARPA) Model : KR-1968-H



- 19 inches large screen display, for a clearer visual of targets
- Independent keyboard control, for simplified operations
- Adjustable DATA FIELD, for flexibility
- The system software can be upgraded via SD card
- AIS display function
- Multi color selection for target and background
- Rugged die-cast and waterproof housing
- "Target Tracking" (TT) function, can track and trace up to 40 targets
- User-programmable function keys
- Automatic optimization of radar picture
- Newly enhanced performance
- Head-up, Course-up and North-up representation mode
- Economy Mode, Guard Zone Alarm and Watch Mode
- 1 VGA interface and 1 external alarm contact port

SPECIFICATION OF KR-1968-H

ANTENNA RADIATOR

1.TYPE:

Slotted waveguide array

2.Length and Rotation speed:

Default: Open-array 120cm(RA12), 24RPM

Option: Open-array 180cm(RA18), 24RPM

3.Wind load:

Relative wind 100 knots

4.Beamwidth:

RA12: Hor:1.9° Vert:22°

RA18: Hor:1.2° Vert:22°

RF TRANSCEIVER

1.Frequency: 9410±30MHz(X-band)

2.Pulselength PRR

0.08 μs/2100 Hz(0.125, 0.25, 0.5, 0.75, 1, 1.5* nm)

0.3 μs/1200 Hz(1.5*,2,3* nm)

0.8 μs/600 Hz(3*,4,6,8,12,16,24,36, 48, 64, 72**nm)

*Pulselength & PRR for 1.5 and 3nm ranges can be select in menu

**Option

3.Peak Output Power: KR-1968-H: 6KW/12.5KW nominal

4.Mixer and Local Oscillator: Microwave Integrated Circuit

5.IF: 60MHz

Bandwidth:25 MHz (0.08/0.3 μs),3MHz (0.8 μs)

6.Noise Figure: 10dB nominal

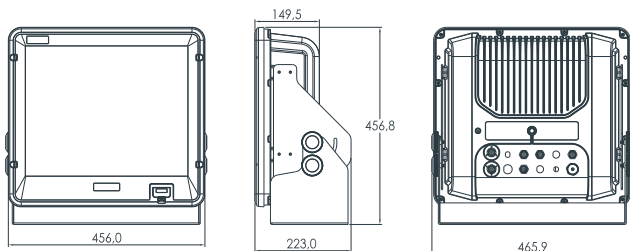
DISPLAY UNIT

1.TYPE:

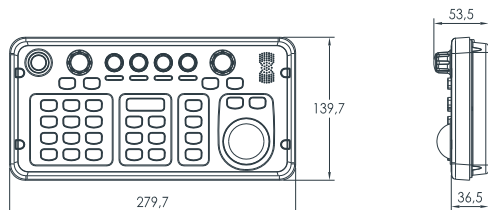
19" LED backlight, 32-bit TFT Color LCD Display.

1280(V) × 1024 (H) dots

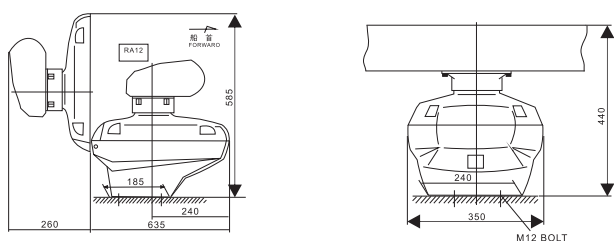
Display (KRD-1901)



Keyboard (KRK-1001)



Antenna unit (KRA-2004/3001)



2.Display Modes:

Head-up, Course-up* , North-up* , True Motion**

* Heading input required **Heading and speed inputs required

3.Range Scales(nm)

Range: 0.125, 0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24, 36, 48, 64, 72

Ring: 0.0625, 0.125, 0.125, 0.25, 0.25, 0.25, 0.5, 0.5, 1, 1, 2, 2, 4, 4, 6, 8, 16

4.Echo Trail:

Interval: 15s, 30s, 1min, 3min, 6min, 15min , 30min or Continuous

5.Interface(NMEA 0183 format) --:any talker (menu selection)

Input: \$ -- ABK, \$ --ACK, \$ --ALR, \$ --BWC, \$ --BWR, \$ --DBK, \$ --DBS, \$ --DBT, \$ --DPT, \$ --DTM, \$ --GGA, \$ --GLL, \$ --HDT, \$ --MTW, \$ --MWV, \$ --RMB, \$ --RMC, \$ --RTE, \$ --THS, \$ --VBW, \$ --VDM, \$ --VDO, \$ --VDR, \$ --VHW, \$ --VTG, \$ --VWR, \$ --VWT, \$ --WPL, \$ --ZDA

Output: \$ --ABM, \$ --ACK, \$ --ALR, \$ --BBM, \$ --OSD, \$ --RSD, \$ --TLB, \$ --TLL, \$ --TTD, \$ --TTM, \$ --VSD

6.AIS Display

Acquisition : AIS vessels or ATON

Tracking : Auto

Display : Vessel Name, MMSI, Call sign, Range/Bearing, L/L,

Speed/Course, ROT, CPA/TCPA

(AIS data input required)

7.Target Tracking Function

Target Tracking Function

Acquisition: 40 manual or 20 auto +20 manual

Tracking: Auto

Display: Speed,Course,Range/Bearing and CPA/TCPA

ENVIRONMENT

Temperature:

-15°C to +55°C (Display unit)

-25°C to +70°C (Antenna unit)

POWER SUPPLY

- 24VDC, 180W (40W in economy mode)

EQUIPMENT LIST

1.Display Unit (KRD-1901)	1 unit
2.Control Unit (KRK-1001)	1 unit
3.Antenna Unit	
KR-1968-H: KRA-2004/3001	1 unit
4.Antenna Cable (KRC-007-10/15/20)	
10/15/20/30m(Specify when ordering)	1 PC
5.Power Cable (KRP-002-0), 3m	1 PC
6.Standard Spare Parts and Installation Materials	1 set

