

ONWA[®]

12 inches & 15 inches Color LCD Marine Radar/with AIS Display and Target Tracking (ARPA)

- Adjustable DATA FIELD, more flexible
- The system software can be upgraded via USB
- AIS display function
- Multi color selection for target and background
- Rugged die-cast, waterproof housing
- "Target Tracking" (TT) function, can track and trace up to 20 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

**KRA-1003
SCANNER UNIT**



KRA-1004 SCANNER UNIT
Can use with RA12 (120cm) or RA18 (180cm) antenna



KR-1538/1568
15 inches Display



KR-1238/1268
12 inches Display



SPECIFICATION OF KR-1238/1268/1538/1568

ANTENNA RADIATOR

1. TYPE

KR-1238/1538: 55cm hybrid array
KR-1268/1568: 120cm hybrid array

2. Length and Rotation speed:

KR-1238/1538: Radome 60cm (KRA-1003) 24RPM
KR-1268/1568: Open array 120cm (KRA-1004) 24RPM

3. Wind load:

Relative wind 100 knots

4. Beamwidth:

KRA-1004: Hor:4° Vert: 25°
KRA-2004: Hor:1.9° Vert: 22°

RF TRANSCIVER

1. Frequency:

9410±30MHz(X-band)

2. Pulse length PRR

0.08µs/2100 Hz(0.125, 0.25, 0.5, 0.75, 1, 1.5* nm)
0.3µs/1200 Hz(1.5*, 2, 3 nm)
0.8µs/600 Hz(3*, 4, 6, 8, 12, 16, 24, 36, 48**, 64**, 72**nm)
*Pulse length & PRR for 1.5 and 3nm ranges can be select in menu
**KR-1268/1568

3. Peak Output Power:

KR-1238/1538: 4KW nominal
KR-1268/1568: 6KW nominal

4. Mixer and Local Oscillator:

Microwave Integrated Circuit

5. IF:

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

6. Noise Figure:

10dB nominal

DISPLAY UNIT

1. TYPE:

12"(KR-1238/1268) & 15"(KR-1538/1568) LED backlight,
32-bit TFT Color LCD Display. 1024(V) × 768 (H) dots

2. Display Modes:

Head-up, Course-up*, North-up*, True Motion**
* Heading input required **Heading and speed inputs required

3. Range Scales(nm)

Range: 1/8, 1/4, 1/2, 3/4, 1, 1½, 2, 3, 4, 6, 8, 12, 16, 24, 36, 48**, 64**, 72**
Ring: 1/16, 1/8, 1/8, 1/4, 1/4, 1/4, 1/2, 1/2, 1, 1, 2, 2, 4, 4, 6, 8**, 16**, 12**

4. Echo Trail:

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

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

Input

\$ -- APB, \$ --BWC, \$ --BWR, \$ --DBK, \$ --DBS, \$ --DBT, \$ --DPT, \$ --GGA,
\$ --GLC, \$ --GLL, \$ --GTD, \$ --HDG, \$ --HDW, \$ --HDT, \$ --MDA,
\$ --MTW, \$ --RMA, \$ --RMB, \$ --RMC, \$ --VTG, \$ --VHW, \$ --XTE

Output

\$ --OSD, \$ --RSD, \$ --TLB, \$ --TLL, \$ --TTD, \$ --TTM

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

Acquisition: 20 manual or 10 auto +10 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

- 13.8VDC, 24VDC, 36VDC. 60W (30W in economy mode)

EQUIPMENT LIST

1. Display Unit

KR-1238/1268: KR-1005 1 unit

KR-1538/1568: KR-1006 1 unit

2. Antenna Unit

KR-1238/1538: KRA-1003 1 unit

KR-1268/1568: KRA-1004 1 unit

3. Antenna Cable (KRC-05-15/20/30),

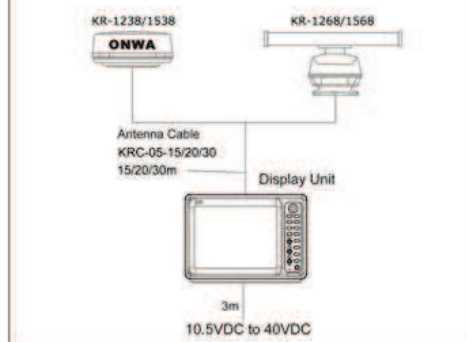
15/20/30m (Specify when ordering)

4. Power Cable (KRP-002-0), 3m

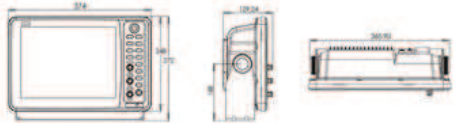
5. Standard Spare Parts and Installation

Materials 1 set

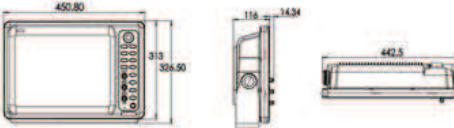
Antenna unit



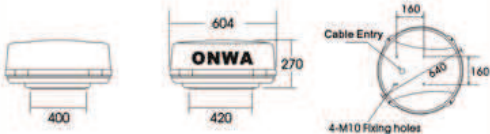
DISPLAY (KR-1238/1268)



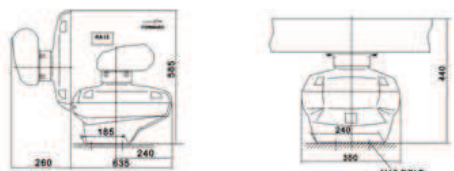
DISPLAY (KR-1538/1568)



ANTENNA UNIT (KR-1238/1538)



ANTENNA UNIT (KR-1268/1568)



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MODEL KR-1238/1268/1538/1568

