

ONWA[®]

12 inches Color LCD Marine Radar/with AIS Display/Target Tracking (APRA)

MODEL KR-1238/1268

- 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-2004 SCANNER UNIT

Can use with RA12 (120cm) or RA18 (180cm) antenna



**KRA-1004
SCANNER UNIT**



ANTENNA RADIATOR**1. TYPE**

KR-1238: 55cm hybrid array

KR-1268: 120cm hybrid array

2.Length and Rotation speed:

KR-1238: Radome 60cm (KRA-1004) 24RPM

KR-1268: Open array 120cm (KRA-2004) 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:** 9410/120MHz(X-band)**2.PulseLength PRR**

0.6μs/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° nm)

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

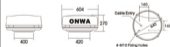
**KR-1268

3.Peak Output Power: KR-1238: 4KW nominal

KR-1268: 6KW nominal

4.Mixer and Local Oscillator: Microwave Integrated Circuit**5.IF:** 60MHz

Bandwidth: 25MHz (0.68/0.3μs), 3MHz (0.6μs)

6.Noise Figure: 10dB nominal**DISPLAY (KR-1238/1268)****ANTENNA UNIT (KR-1238)****ANTENNA UNIT (KR-1268)****DISPLAY UNIT****1. TYPE:**

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

Ring: 0.6025, 0.125, 0.125, 0.25, 0.25, 0.5, 0.5, 1, 1, 2, 2, 3, 4, 6, 12

4.Echo Trail:

Interval: 15s, 20s, 1min, 3min, 6min, 15min, 30min or Continuous

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

\$ -- APL, \$ --BWC, \$ --BRR, \$ --DBK, \$ --DBS, \$ --DBT, \$ --DPT, \$ --GGA,

\$ --GLC, \$ --GLL, \$ --GTD, \$ --HDG, \$ --HDW, \$ --HDT, \$ --MDA,

\$ --MTW, \$ --RMA, \$ --RMB, \$ --RMC, \$ --VTG, \$ --VHW, \$ --XTE

Output

\$ --OBD, \$ --RSD, \$ --TLR, \$ --TLX, \$ --TTD, \$ --TTH

6.AIS Display

Acquisition: AIS vessels or ATON

Tracking: Auto

Display: Vessel Name, MMSL, Call sign, Range/Bearing, LV,

Speed/Course, ROT, CPA/TCOA

(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/TCOA

ENVIRONMENT**Temperature:**

-15°C to +55°C (Display unit)

-25°C to +70°C (Antenna unit)

POWER SUPPLY

• 13.8VDC, 3AVDC, 36VDC, 60W (30W in economy mode)

EQUIPMENT LIST**1.Display Unit (KRD-1004) 1 unit****2.Antenna Unit**

KR-1238: KRA-1004 1 unit

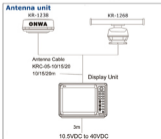
KR-1268: KRA-2004 1 unit

3.Antenna Cable (KRC-05-10/15/20),

10/15/20/30m (Specify when ordering)

4.Power Cable (KSP-002-0), 3m**5.Standard Spare Parts and Installation**

Materials 1 set

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