

ONWA®

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

MODEL KR-1538/1568

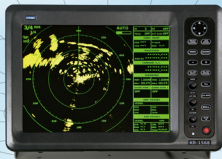
- Adjustable DATA FIELD, more flexible
- The system software can be upgraded via USB
- AIS display function
- Multi color selection for target and background
- Rugged die-cast, waterproof housing
- "Target Tracking" (TT) function, can track and trace up to 20 targets
- User-programmable function keys
- 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-1538: 55cm hybrid array

KR-1568: 120cm hybrid array

2. Length and Rotation speed:

KR-1538: Radome 60cm (KRA-1004) 24RPM

KR-1568: 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: 9410.430MHz(X-band)

2. Pulse Length PRR

0.00us/2100 Hz(0.125, 0.25, 0.5, 0.75, 1, 1.5° nm)

0.3us/1200 Hz(1.5°, 2, 3 nm)

0.6us/600 Hz(3°, 4, 6, 8, 12, 16, 24, 36, 48°, 64° nm)

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

**KR-1568

3. Peak Output Power: KR-1538: 4KW nominal

KR-1568: 6KW nominal

4. Mixer and Local Oscillator: Microwave Integrated Circuit

5. IF:

60MHz

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

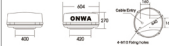
6. Noise Figure:

10dB nominal

DISPLAY (KR-1538/1568)



ANTENNA UNIT (KR-1538)



ANTENNA UNIT (KR-1568)



DISPLAY UNIT

1. TYPE:

15" 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°

Range: 0.0625, 0.125, 0.25, 0.35, 0.5, 0.75, 1, 1.5, 2, 3, 4, 6, 8, 12

4. Echo Trail:

Interval: 15s, 30s, 1min, 2min, 6min, 15min, 30min or Continuous

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

Input

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

\$ -- GPC, \$ -- GLL, \$ -- GTO, \$ -- HDG, \$ -- HDW, \$ -- HDT, \$ -- MDA,

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

Output

\$ -- OSD, \$ -- RSD, \$ -- TLE, \$ -- TLL, \$ -- TTD, \$ -- TTH

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 (KRD-1004) 1 unit

2. Antenna Unit

KR-1538: KRA-1004 1 unit

KR-1568: KRA-2004 1 unit

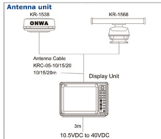
3. Antenna Cable (KRC-05-10/15/20),

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

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

5. Standard Spare Parts and Installation

Materials



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