

ONWA[®]

10 inches Color LCD Marine Radar/with AIS Display/Target Tracking (ARPA)

Model: KR-1008/1068



KRA-2004 SCANNER UNIT
Can use with Ra12 (120cm)
or RA18 (180cm) antenna



KRA-1004 SCANNER UNIT

- The system software can be upgraded via USB
- 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 30 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

SPECIFICATION OF KR-1008/1068

ANTENNA RADIATOR

1. TYPE:

KR-1008: 55cm hybrid array
 KR-1068: 120cm hybrid array

2. Length and Rotation speed:

KR-1008: Radome 60cm (KRA-1004) 24RPM
 KR-1068: 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 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** nm)
 *Pulselength & PRR for 1.5 and 3nm ranges can be select in menu
 **KR-1068

3. Peak Output Power: KR-1008: 4KW nominal KR-1068: 6KW 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:

10" 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: 0.0625, 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, 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

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

- 10.5VDC to 40VDC, 60W (30W in economy mode)

EQUIPMENT LIST

1. Display Unit (KRD-1007) 1 unit

2. Antenna Unit

KR-1008: KRA-1004 1 unit

KR-1068: KRA-2004 1 unit

3. Antenna Cable (KRC-006-15/20/30),
 10/15/20/30m (Specify when ordering)

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

5. Standard Spare Parts and Installation
 Materials 1 set

