

# ONWA<sup>®</sup>

MARINE ELECTRONICS



## MODEL

# KRA-1009\_N

Radome Network Radar Antenna

- Traditional ONWA quality and reliability in a compact, lightweight, and low-cost radar antenna
- Digital radar target technology
- Share the same protocol between all ONWA magnetron pulse radar antennas
- Can be connected to PC directly or through home router
- Built-in excellent sea and rain clutter algorithm
- High performance microwave front end
- Fully digital signal processing
- Can use with **DigiNav Application Software**

# SPECIFICATIONS

## ANTENNA UNIT

Radiator:	Slotted waveguide array
Radiator length :	46 cm
Horizontal beamwidth:	5°
Vertical beamwidth:	25°
Sidelobe:	Within $\pm 20^\circ$ off mainlobe; less than -18 dB Outside $\pm 20^\circ$ off mainlobe; less than -23 dB
Polarization:	Horizontal
Antenna rotation speed:	Long range (3~36NM): 24RPM ( $\pm 2$ ) Medium range (1.5~3NM): 36RPM ( $\pm 2$ ) Short range (1.5~3NM): 36RPM ( $\pm 2$ )
Wind resistance:	Relative wind speed 100 knots (51.5 m/s)

## TRANSCEIVER MODULE (contained in antenna)

Transmitting Tube:	MSF1421B or MAF1421B
Frequency:	9410 $\pm$ 30MHz
Peak output power:	4kW nominal
Pulselength and pulse repetition:	0.08 $\mu$ S/2100 Hz(0.125, 0.25, 0.5, 0.75, 1.5 nm) 0.3 $\mu$ S/1200 Hz(1.5, 2, 3 nm) 0.8 $\mu$ S/600 Hz(3, 4, 6, 8, 12, 16, 24, 36nm)
Warm up time:	1:30 minutes
Modulator:	FET switching method
I.F.:	60 MHz
Tuning:	Automatic or manual
Receiver front end:	MIC (Microwave IC)
Bandwidth:	Tx pulse length 0.3 $\mu$ S and 0.8 $\mu$ S: 25MHz Tx pulse length 0.8 $\mu$ S: 3MHz
Duplexer:	Circulator with diode limiter
POWER SUPPLY UNIT	10.5VDC to 40VDC built-in power supply

## ENVIRONMENT

Temperature:	Antenna unit: -25 to +70°C
Humidity:	Relative humidity 93% or less at 40°C
Compass safe distance:	

	Standard Compass	Steering Compass
Antenna Unit	130 cm	95 cm

## DIMENSIONS

