

PREVIEW

# KODEN

## 2008

# New Radar Concept



8.4-inch Color LCD Marine Radar

# MDC-900

Series

## FEATURES

- ▶ High-performance, sophisticated signal processing, usually found only in larger professional grade radars.
- ▶ Exclusive dual range radar feature lets you view split-screen display of both long and short-range targets simultaneously. It's like having two radars in one.
- ▶ "True Trail" feature clearly identifies moving targets from stationary targets like land or buoys.
- ▶ Brilliant, sunlight viewable 8.4" color LCD display with anti-reflective glare coating.
- ▶ Easy operation with dedicated control knobs for Gain and STC.
- ▶ RGB output for connecting external monitor.
- ▶ Accepts CCD camera input.
- ▶ ATA (Automatic Tracking Aid) tracks up to 50 user designated targets. (Option)
- ▶ Displays up to 100 AIS (Automatic Identification System) targets with optional AIS interface. (Option)
- ▶ Sleek, new compact case design can be mounted almost anywhere.
- ▶ Built-in flush mounting system makes installation easy, as you can mount screws from front side.

## EQUIPMENT LIST

### Standard Equipment

Antenna-Scanner unit	RB714A	1.2 feet	2 kW	MDC-921
	RB715A	2 feet	4 kW	MDC-941
Antenna	RW701A-03	3 feet		MDC-940
	RW701A-04	4 feet		MDC-940
Scanner	RB716A		4 kW	MDC-940
Display unit	MRD-103	with hard cover		
Connecting cable	242J160680A-10M	With two connectors, MDC-921		
	242J158055A-10M	With two connectors, MDC-941		
	242J159098A-10M	With two connectors, MDC-940		
DC power cable				
Spare parts kit, Installation material, Operation manual				

### Option

ATA, AIS interface, Gyro/Log interface, Power rectifier, AC power cable  
Connecting cable (15m / 20 m / 30 m), Connecting cable for : External monitor / External buzzer

## DIMENSIONS



## SPECIFICATIONS

### Antenna-Scanner unit

Model	MDC-921	MDC-941	MDC-940
Antenna length	1.2 feet (radome)	2 feet (radome)	3 feet / 4 feet (open)
Peak power output	2 kW	4 kW	4 kW
Maximum range	24 nm	32 nm	48 nm
Horizontal beam width	6.0°	3.9°	3 feet: 2.5° 4 feet: 1.8°
Vertical beam width	25°	25°	22°

### Environmental

Water protection	CFR-46	IPX6 (IEC 60529)	IPX6 (IEC 60529)
Operating temperature	-25°C to +55°C		

### Display unit

Model	MRD-103		
Display size/type	8.4" color LCD		
Display resolution	480 x 640 pixels		
Power supply	10.8 to 31.2 VDC		
Power consumption (at 24 VDC)	45 W or less	55 W or less	70 W or less

### Main Features

Presentation modes	Head-up, North-up*, Course-up**, True motion***		
Indication system	PPI, PPI/PPI, PPI/NAV		
Range scale Scales	14	15	16
	Range	0.125 to 24 nm	0.125 to 32 nm
Range discrimination	better than 25 m		
Range resolution (at 1/8 range)	within 30 m	within 25 m	within 25 m
Range accuracy	better than 8 m		
Minimum detecting distance (at 1/8 range)	within 30 m	within 25 m	within 25 m
Bearing accuracy	better than ±1°		
Bearing resolution	within 7.5°	within 4.5°	3 feet: within 3.0° 4 feet: within 2.5°
Warm-up time	2 min.		
VRM	2 marks		
EBL	2 lines		
Alarms Guard zone	in/out		
Other functions	Gain, STC, FTC, Tune, Heading marker off, Interference rejection, Target expansion, Zoom, Floating EBL/VRM, Cursor position (L/L)****, Parallel cursor, Bearing (True/Relative)*, Accepts CCD camera input, Signal processing, Location memory (POB)***		
ATA	Option (Auto/Manual, 50 Targets)		
AIS	Option (100 Targets)		

### Environmental

Water protection	IPX5
Operating temperature	-15°C to +55°C

### Antenna-scanner connections

2 kW, 1.2 feet Radome	RB714A	-	-
4 kW, 2 feet Radome	-	RB715A	-
4 kW, Open	-	-	RB716A
Interconnecting 10, 15, 20 or 30 m	242J160680	242J158055	242J159098
Max. cable length	30 m	100 m	100 m

\* Requires heading signal input

\*\* Requires heading signal input and speed signal input

\*\*\* Requires position data input

• Design and specifications are subject to change without notice.

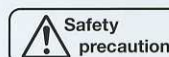
**KODEN** Kodens Electronics Co., Ltd.

Tamagawa Office:  
2-13-24 Tamagawa, Ota-ku, Tokyo, 146-0095 Japan  
Tel: +81-3-3756-6501 Fax: +81-3-3756-6509

Uenohara Office:  
5278 Uenohara, Uenohara-shi, Yamanashi, 409-0112 Japan  
Tel: +81-554-20-5860 Fax: +81-554-20-5875

overseas@koden-electronics.co.jp

www.koden-electronics.co.jp



**Safety precaution**

To ensure proper and safe use of the equipment, please carefully read and follow the instructions in the Operation Manual.

For details, please contact: