

PREVIEW

KODEN

Marine Radar

MDC-5000 Series

**Powerful and Precise
Professional Grade**



Features

- ▶ Clear image with High-speed sampling in short range
- ▶ CFAR, auto GAIN and STC with simple operation
- ▶ Improved visibility by PROCESS and VIDEO functions
- ▶ Built-in AIS interface for displays up to 500 targets
- ▶ Built-in TT (ARPA) tracks up to 50 targets
- ▶ C-Map chart (NT or MAX) can be displayed with the radar image (Chart: Owner supplied)
- ▶ Black Box type connects to any XGA and UXGA type display
- ▶ Output power: 4 models (4kW, 6kW, 12kW, 25kW)

SPECIFICATIONS

Antenna-scanner unit

Model	MDC-5004	MDC-5006 / 5060	MDC-5012 / 5010	MDC-5025 / 5020
Type	RB806	RB807 / RB717A	RB808 / RB718A	RB809 / RB719A
Antenna type	Open antenna			
Antenna length	3 feet / 4 feet / 6 feet	4 feet / 6 feet	4 feet / 6 feet / 9 feet	4 feet / 6 feet / 9 feet
Output power (Peak)	4 kW	6 kW	12 kW	25 kW
Output frequency	9410 MHz $\pm$ 30 MHz			
Horizontal beam width	3 feet : 2.5° / 4 feet : 1.8° / 6 feet : 1.2° / 9 feet : 0.8°			
Vertical beam width	3, 4, 6 feet : 22° / 9 feet : 25°			
Rotation	24 rpm or 48 rpm		24 rpm or 42 rpm	
IF center frequency	60 MHz			
Range accuracy	8 meters or 1% of the range scale selected, whichever is the greater			
Minimum detecting distance	Within 40 m			
Range resolution	Within 40 m			
Warm-up time	2 min			3 min
Pulse width	0.08 μ s, 0.15 μ s, 0.3 μ s, 0.5 μ s, 1.0 μ s (4kW only) 0.08 μ s, 0.15 μ s, 0.3 μ s, 0.4 μ s, 0.6 μ s, 0.8 μ s, 1.2 μ s (6kW, 12kW, 25kW)			
Environmental				
Operating temperature	-25°C to +55°C			
Water Protection	IPX6			

Processor unit

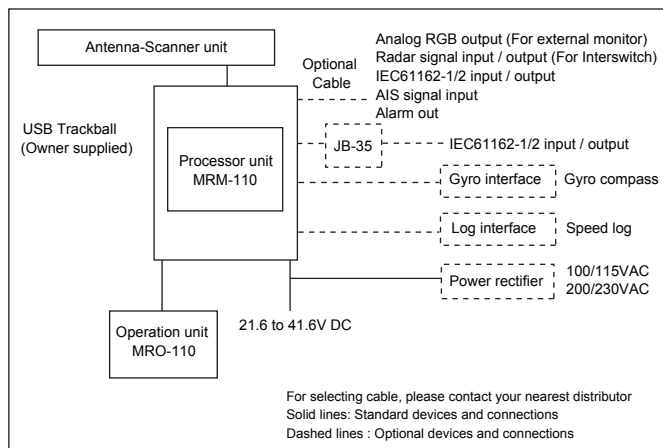
Processor unit	MRM-110
Display resolution	1024 x 768 pixels (XGA)
Off-centering	Max. 75 %
Range Scales	0.125, 0.25, 0.5, 0.75, 1.5, 3, 6, 12, 24, 48, 64, 96
Range interval	0.0625, 0.125, 0.25, 0.5, 1, 2, 4, 8, 16, 16 (48 NM: 4 kW only, 64 NM: 6 kW, 12 kW only, 96 NM: 25 kW only)
Presentation modes	Head-up, North-up (True motion)*, North-up (Relative motion)*, Course-up (True motion)*, Course-up (Relative motion)*
Video levels	16
Range unit	NM, km, sm, kt, ky
Functions	Chart overlay, CFAR (Clutter rejection), Interference rejection, Target expansion, Process (Averaging), VRM, EBL, Parallel index, Cursor position, Bearing (true/relative), Trail (true/relative)*, Own ship past track*, MAP (Event mark* etc.), Analog RGB output
Input data format and sentences	IEC61162-1 / -2 BWC, DBT, DPT, DTM, GGA, GLC, GLL, GNS, HDG, HDT, HDM, MTW, RMA, RMB, RMC, ROT, RTE, THS, VBW, VDR, VHW, VTG, WPL, XTE, ZDA
Output data format and sentences	IEC61162-1 / -2 DTM, EVE, GLL, HBT, HDT, ROT, RSD, OSD, POS, THS, TLB, TLL, TTD, TTM, VBW, VDR, VHW, VTG, ZDA
AIS interface*	500 Targets
TT (ARPA)*	Auto / Manual 50 Targets
Power supply	21.6 to 41.6 VDC
Power Consumption (at 24 VDC)	100 W or less, 130 W or less, 150 W or less, 200 W or less

Environmental

Operating temperature	-15°C to +55°C
Water Protection	Processor unit (MRM-110) : IPX0 Operation unit (MRO-110) : IP23

* Requires heading, speed, and / or position signal input from external equipment including GPS Compass depending on application of user.

CONNECTIONS



EQUIPMENT LIST

Standard Equipment

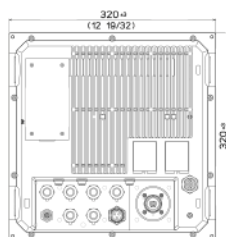
Scanner unit	RB806	4 kW
	RB807	6 kW
	RB808	12 kW
	RB809	25 kW
Antenna unit	RW701A-03	3 feet
	RW701A-04	4 feet
	RW701A-06	6 feet
	RW701B-09	9 feet
Processor unit	MRM-110	
Operation unit	MRO-110	With 2 m connecting cable
Connecting cable (RB807 / RB808 / RB809)	CW-845-15	15 m with connectors on both ends
(RB806 only)	242J159098B-15M	
DC power cable	CW-259-2M	2 m
Operation manual, Installation manual, Quick reference, Installation material, Fuse		

Option

Gyro interface unit, Log interface unit, Power rectifier- AC power cable, Connecting cables, Junction Box

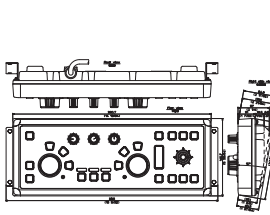
DIMENSIONS AND WEIGHT

Processor unit:
MRM-110



Weight: 5.1 kg (11.5 lb)

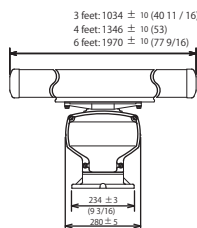
Operation unit:
MRO-110



Weight: 2 kg (4.5 lb)

Antenna-scanner unit:

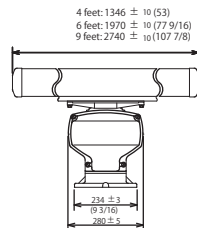
RB806



Weight:

3 feet: 21.5 kg (47 lb)
4 feet: 22.5 kg (50 lb)
6 feet: 24.5 kg (54 lb)

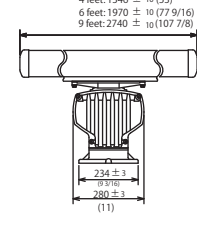
RB807 / RB808



Weight:

4 feet: 24 kg (53 lb)
6 feet: 26 kg (57.5 lb)
9 feet: 30 kg (66.5 lb)

RB809



Weight:

4 feet: 28 kg (62 lb)
6 feet: 32 kg (71 lb)
9 feet: 32 kg (71 lb)



Le spécialiste des équipements électroniques

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