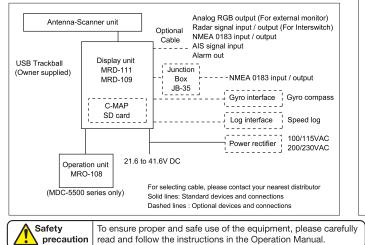
CE model

SPECIFICATIONS

Antenna-scanner unit					
Model	MDC-5204 / MDC-5504	MDC-5206 / MDC-5506	MDC-5212 / MDC-5512	MDC-5225 / MDC-5525	
Scanner unit	RB806	RB807	RB808	RB809	
Antenna type		Open a	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	± 30 MHz		
Horizontal beam width	3 feet	: 2.5° /4 feet : 1.8° /	/ 6 feet : 1.2º/ 9 feet :	: 0.8°	
Vertical beam width		3, 4, 6 feet : 22	° / 9 feet : 25°		
Rotation	24 rpm c	or 48 rpm	24 rpm c	or 42 rpm	
IF center frequency		60 1	MHz		
Range accuracy	8 meters or	1% of the range scale	e selected, whichever	r is the greater	
Minimum detecting distance		Withir	1 20 m		
Range resolution		Withir	ו 20 m		
Warm-up time		2 min		3 min	
Pulse width RB806		0.08us, 0.2us, 0.	3us, 0.6us, 1.2us		
RB807 RB808 RB809	0.08	Bus, 0.15us, 0.3us, 0.	4us, 0.6us, 0.8us, 1.	2us	
Environmental					
Operating temperature		-25°C to	+55°C		
Water Protection		IP>	<6		
Display unit					
Model	MDC-520	0 Series	MDC-550	0 Series	
Display unit	MRD	-111	MRD-109		
Display size and type	12.1" colo	r TFT LCD	15" color TFT LCD		
Effective diameter	184		228 mm		
Display resolution		768 x 1024 pi	xels (XGA)		
		Max.	75 %		
Echo area	2 ty		ide of effective diame	ter)	
Basic Range	0.125 to 48 NM	0.125 to	o 64 NM	0.125 to 96 NM	
Range Scales	0.125 0.25 0.5	0.75 1.5 3		48 64 96	
Range interval	0.0625 0.125 0.25 0.5 1 2 4 8 16 16				
			12 kW only, 96 NM:		
Presentation modes	Head-up, North-up (True mot	ion)*, North-up (Relative motic	on)*, Course-up (True motion)*,	Course-up (Relative motion	
Video levels	16				
Range unit	NM, km, sm, kf, ky				
Functions	Map overlay*, CFAR (Clutter rejection), Interference rejection, Target expansion, Process (Averaging), VRM,				
	EBL, Parallel index, ERBL, Cursor position, Bearing (true*/ relative), Trail (true / relative)*, Own ship past track*,				
		MAP .(Event mark* etc	c.), Analog RGB output		
Input data format	NMEA 0183				
and sentences	BWC, DBT, DPT, DTM, GGA, GLC, GLL, GNS, HDG, HDT, HDM,				
			VBW, VDR, VHW, V		
Output data format		NMEA (0183		
and sentences	DTM, EVE, GLL, HBT, HDT, ROT, RSD, OSD, POS, THS, TLB,			IS. TLB.	
			VDR, VHW, VTG, ZDA		
AIS interface*		1 000 Terest	(Chandrad)		
TT (ARPA)*	1,000 Targets (Standard) Auto / Manual 100 Targets (Standard)				
Power supply		21.6 to 4			
	100 W I-			200 W/ an /	
Power Consumption (at 24 VDC)	100 W or less	130 W or less	150 W or less	200 W or less	
Environmental					
Operating temperature Water Protection		-15°C to	unit : IP23 (MDC-55)		

GPS Compass depending on application of user. ** MDC-5500 Series only

CONNECTIONS



KODEN Koden Electronics Co., Ltd.

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 Japar Tel: +81-554-20-5860 Fax: +81-554-20-5875

overseas@koden-electronics.co.ip

www.koden-electronics.co.jp

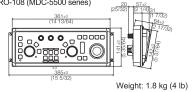
EQUIPMENT LIST

Standard Equipment			
Antenna-Scanner unit	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
Display unit (MDC-5200 Series)		MRD-111	
(MDC-5500 Series)		MRD-109	
Operation unit (MDC-5500 only)		MRO-108	With 2 m connecting cable
Connecting cable(RB807 / RB808 /	RB809)	CW-845	15 m with connectors on both ends
(RB806 only)		242J159098B-15M	
DC power cable		CW-259-2M	2 m
Operation manual, Quick reference,	Installation manual	Installation material, Fuse	
Option			

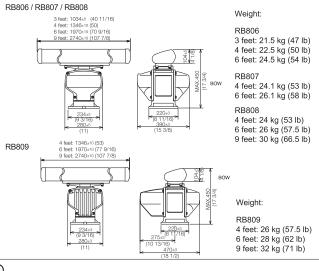
Gyro interface unit, Log interface unit, Power rectifier, AC power cable, Connecting cables, Junction Box

DIMENSIONS AND WEIGHT









• Design and specifications are subject to change without notice.

For details, please contact:



Mackay Marine - High Seas +1 281 479 1515 marinesales@mackaymarine.com Mackay Communications, Satellite Solutions +1 919 850 3100 satserv@mackaycomm.com

Mackay Marine Canada +1 902 469 8480 sales.canada@mackaymarine.com Mackay Marine Alaska & Pacific Northwest

+1 206 282 8080 ballard@mackaymarine.com

12.1-inch /15-inch Color LCD Marine Radar **MDC-5200/5500** Series



Mackay

Marine Electronics &

Satellite Communications



www.mackaymarine.com 16-08 PDF





AIS

MDC-5200 MDC-5500 Series

MDC-5200 / 5500 series have superior performance and functions of large grade radars. High resolution XGA display with anti-reflection coating makes clear image.

_ Model								
		12.1-inch D	isplay type			15-inch Dis	play type	
Standard model	MDC-5240	MDC-5260	MDC-5210	MDC-5220	MDC-5540	MDC-5560	MDC-5510	MDC-5520
CE model	MDC-5204	MDC-5206	MDC-5212	MDC-5225	MDC-5504	MDC-5506	MDC-5512	MDC-5525

Features

- Clear image with High-speed sampling in short range.
- Auto GAIN with simple operation.
- Improved visibility by auto STC.
- Simple and easy operation by remote trackball via USB.
- Built-in AIS interface for displays up to 1000 targets.
- Built-in TT(ARPA) tracks up to 100 targets.
- C-Map chart(NT MAX) can be overlaid on the radar screen. (Chart : owner supplied)

Map Overlay

C-Map chart (NT MAX)** can be overlaid on the radar screen to provide clear radar pictures of coastlines, buoys, and other features. C-Map NT MAX "World Wide" back ground chart is built-in as standard. **Owner supplied. Basic chart information only. Extra features of C-Map such as photo indication are not available.

AIS	TT (ARPA)
Built-in AIS interface for displaying up to 1000 targets.	Built-in TT (ARPA) tracks up to 100 targets. Selectable auto acquisition or manual acquisition.
	C-MAP SD Card
Data Display Own ship / Target data	
Target and Map information	

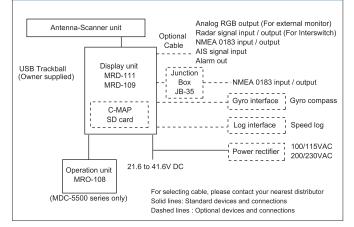
Standard model	
MDC-5240 / 5540	: 4 kW
MDC-5260 / 5560	: 6 kW
MDC-5210 / 5510	: 12 kW
MDC-5220 / 5520	: 25 kW
CE model	
MDC-5204 / 5504	: 4 kW
MDC-5206 / 5506	: 6 kW
MDC-5212	: 12 kW
MDC-5512	: 12 kW
MDC-5225	: 25 kW
MDC-5525	: 25 kW

Standard model

SPECIFICA	TIONS				
Antenna-scanner unit					
Model	MDC-5240 / MDC-5540	MDC-5260 / MDC-5560	MDC-5210 / MDC-5510	MDC-5220 / MDC-55	
Scanner unit	RB716A	RB717A	RB718A	RB719A	
Antenna type			antenna		
Antenna length	3 feet / 4 feet	4 feet / 6 feet	4 feet / 6 feet	6 feet / 9 feet	
Output power (Peak)	4 kW	6 kW	12 kW	25 kW	
Output frequency		9410 MHz	± 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 : 2	22° / 9 feet : 25°		
Rotation			or 48 rpm		
IF center frequency			VIHz		
Range accuracy	8 meters or	1% of the range scale		is the greater	
Minimum detecting distance			1 20 m		
Range resolution			1 20 m		
Warm-up time		2 min		3 min	
Pulse width RB716A	0.08	to 0.15us, 0.08us, 0.	15us 0.3us 0.5us 1		
RB717A RB718A	0.00	0.08us, 0.25us, 0.			
RB719A			6us, 0.8us, 1.2us		
Environmental	I	010000, 01000, 01	040, 01040, 11240		
Operating temperature		-25°C to	+55°C		
Water Protection			X6		
Display unit		"	760		
Model	MDC-520	0 Series	MDC-550	0 Series	
Display unit	MDC-520		MDC-5500 Series MRD-109		
Display size and type			15" color		
Effective diameter	12.1 COID	r TFT LCD	228		
Display resolution	104	768 x 1024 pi			
Off-centering		Max.			
Echo area	2.5	pes (Full screen, Ins		tor)	
Basic Range	0.125 to 48 NM		o 64 NM	0.125 to 96 NM	
Range Scales	0.125 0.25 0.5			48 64 9	
Range interval	0.0625	125 0.25 0.5			
rtange interval		kW, 64 NM: 6 kW, 7			
Presentation modes					
	Head-up, North-up (True motion)*, North-up (Relative motion)*, Course-up (True motion)*, Course-up (Relative motion				
Video levels Range unit	16 NM, km, sm, kf, ky				
Functions	Man availant OFAD (Cha			(Aussian) VDM	
FUNCTIONS	Map overlay*, CFAR (Clutter rejection), Interference rejection, Target expansion, Process (Averaging), VRM, EBL, Parallel index, ERBL, Cursor position, Bearing (true*) relative), Trail (true / relative)*, Own ship past track*,				
	EDL, Paraller Index, ERDL,			e), own snip past track	
Input data format		MAP,(Event mark* etc			
Input data format and sentences	NMEA 0183 BWC, DBT, DPT, DTM, GGA, GLC, GLL, GNS, HDG, HDT, HDM,				
		MC, ROT, RTE, THS,			
Output data (
Output data format and sentences	NMEA 0183 DTM, EVE, GLL, HBT, HDT, ROT, RSD, OSD, POS, THS, TLB,				
	DIM, E		VDR, VHW, VTG, ZDA	13, ILB,	
AIS interface*			s (Standard)		
TT (ARPA)*		Auto / Manual 100			
Power supply	400.11/	21.6 to 4		000.14/!	
Power Consumption (at 24 VDC)	100 W or less	130 W or less	150 W or less	200 W or less	
Environmental					
Operating temperature	1	-15°C to) +55°C		
Water Protection		nit : IPX5, Operation	10 ID00 (110 0	0	

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

CONNECTIONS



	3 feet / 4 feet Open 4 feet / 6 feet Open 4 feet / 6 feet Open 6 feet / 9 feet Open	
3 feet /	4 feet / 6 feet Open 4 feet / 6 feet Open	
4 feet /	4 feet / 6 feet Open 6 feet / 9 feet Open 4 feet / 6 feet Open	
4 feet /	6 feet / 9 feet Open	

EQUIPMENT LIST

Antenna-Scanner unit	Scanner unit	RB716A	4 KW
		RB717A	6 K/V
		RB718A	12 KW
		RB719A	25 KW
	Antenna unit	RW701A-03	3 feet
		RW701A-04	4 feet
		RW701A-06	6 feet
		RW701B-09	9 feet
Displayunit (MDC-5200 S	ieries)	MRD-111	
(MDC-5500 S	ieries)	MRD-109	
Operation unit (MDC-5500) only)	MRO-108	With 2 m connecting cable
Connecting cable		242J159098B-15M	15 m with connectors on both ends
DC power cable		CW-259-2M	2 m
Operation manual, Quick	reference, Instal	lation manual, Installation m	aterial, Fuse

Option

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

