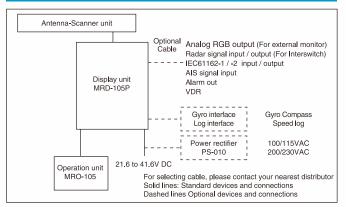
Antenna-Scann	er unit	
Model	MDC-2910P	MDC-2920P
Antenna type	Open antenna	
Antenna length	4 feet / 6 feet	
Power output (peak)	12 kW	25 kW
Output frequency	9410 MHz ± 30MHz	
Horizontal beam width	4 feet: 1.8° / 6 feet: 1.2°	
Vertical beam width	22°	
Rotation	24 rpm	
IF center frequency	60 MHz	
Range accuracy	7 meters or 1% of the range scale selected, whichever is the greater	
Minimum detecting distance	within 40 m	
Range resolution	within	12 111
Warm-up time	2 min	3 min
Pulse width	0.08 us, 0.15 us, 0.	3 us, 0.6 us, 1.2 us
Environmental		
Water protection	IPX6	
Operating temperature	-25°C to +55°C	
Display unit		
Model	MDC-2910P	MDC-2920P
Basic range	0.125 to 72 NM	0.125 to 96 NM
Display unit	MRD-1	105P
Display size / type	19 inch color TFT LCD	
Effective diameter	278 mm	
Display resolution	1280 x 1024 pixels	
Off-centering	Max. 72%	
Echo area	2 types (Inside of effective diameter)	
Presentation modes	Head-up, North-up*, Course-up*	
Range Rings interval	0.0625(0.125,0.25), 0.125(0.5,0.75), 0.25(1.5), 0.5(3), 1(6), 2(12), 4(24), 8(48), 12(72), 16(96) (): Range scales	
Range scales	0.125,0.25,0.5,0.75,1.5,3,6,12,24,48,(72),(96) nm 72nm: 12kW only. 96nm: 25kW only.	
Video level	8 levels	
Distance unit	NM	
Functions	CFAR (Clutter rejection), Interference rejection, Enhance (Target expansion), Process (Averaging), VRM, EBL, Parallel index, ERBL, Cursor position (Lat/Lon), Bearing (true/relative) Trail* (true/relative), Own ship past track, MAP (Event mark, etc), Analog RGB output	
Input / Output data format	IEC61162-1/-2	
Input data sentence	BWC, DBT, DPT, DTM, GGA, GLC, GLL, GNS, HDG, HDT, HDM, MTW, RMA, RMB, RMC, RTE, THS, VBW, VDR, VHW, VTG, WPL, XTE, ZDA	
Output data sentence	RSD, OSD, TLB, TTD, TTM	
AIS interface	254 Targets*	
ATA**	Auto/Manual 60 Targets*	
Power supply	21.6 to 41.6 VDC	
Power consumption(at 24VDC)	150W or less	200W or less
Environmental		
Water protection		
	-15°C to +55°C	

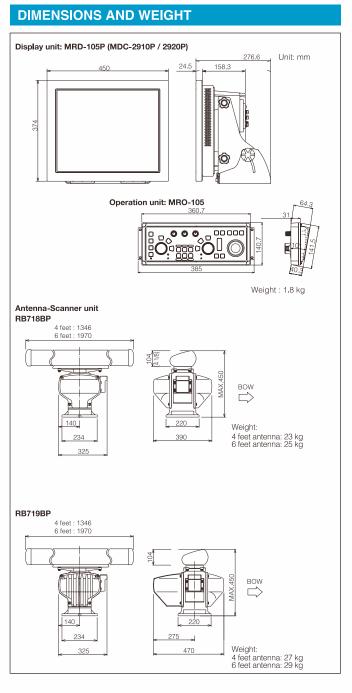
- Requires heading, speed, and / or position signal input from external equipment including GPS Compass depending on application of user.

  \*\* ATA is called TT (Target Tracking) in the new IMO regulation.

### **CONNECTIONS**







• Design and specifications are subject to change without notice.



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overseas@koden-electronics.co.jp

www.koden-electronics.co.jp

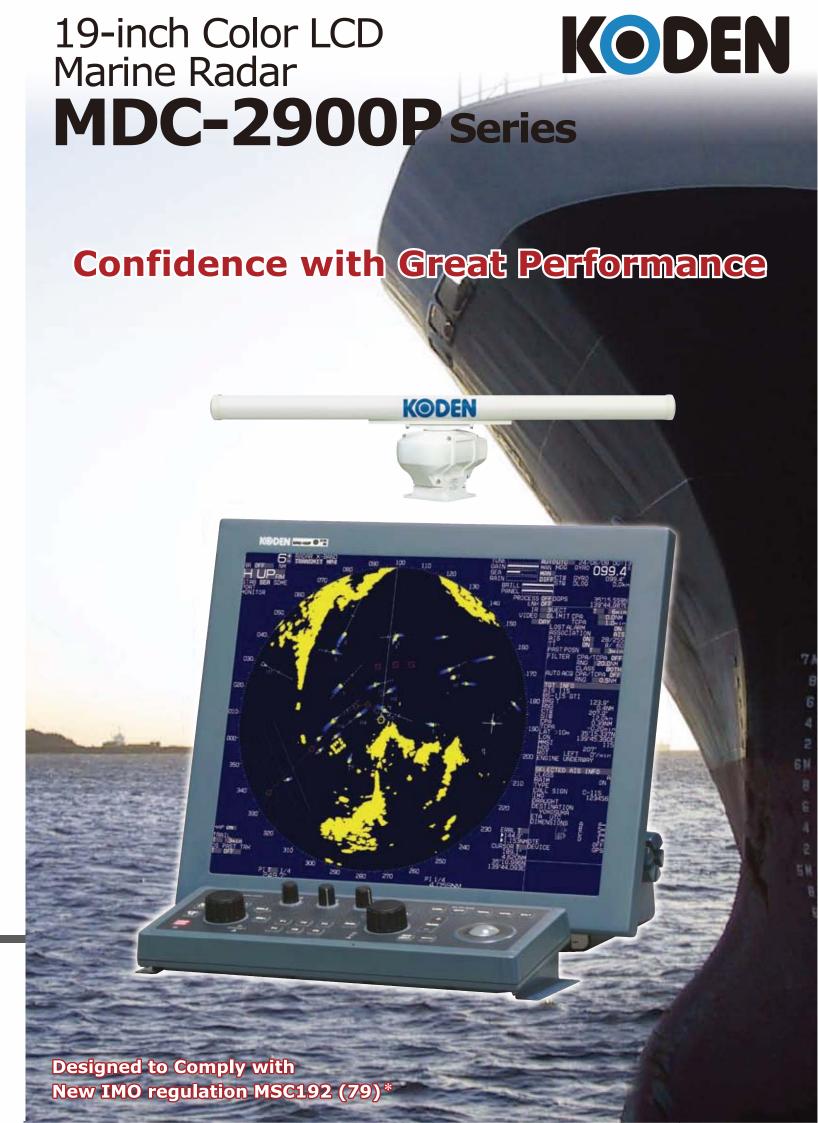


To ensure proper and safe use of the equipment, please carefully

For details, please contact:



Telefax 010 870248 e-mail: apelmar@koden.it http://www.koden.it



# MDC-2900P series IMO Radars

MDC-2910P: 12 kW 4 feet / 6 feet Open MDC-2920P: 25 kW 4 feet / 6 feet Open

MDC-2900P Series is designed to comply with new IMO regulation MSC192(79) and meet the SOLAS carriage requirerments for ships up to 10,000 gross tons. Providing outstanding Performance and Clear Image.

MDC-2910P/MDC-2920P have 19-inch high-resolution SXGA display with anti-reflective coating.

These radars feature sophisticated "Strong Signal Processing" for real-time presentation and superior target discrimination. This special signal processing provides a steady image even in case of unstable targets.

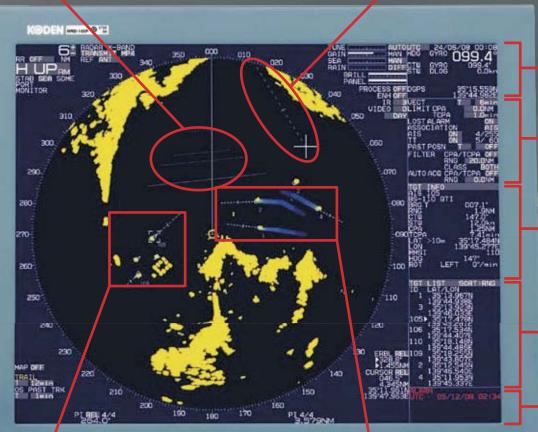
Other superior features are Enhance (ENH), Interference Rejection (IR), Range Rings (RR), VRM, EBL, Trail (True/Rel), Off center, Echo alarm, NAV line, Coast line, Route map, Guard zone, Monitor output, VDR output. Interswitch function for connecting two radar displays without an extra device. ARPA functions except Trial maneuver function are provided.

### New Parallel Index Lines (PI)

Each parallel line can be used independently, User can move each line and adjust the length freely.

New Electronic Range and Bearing Line (ERBL) User can control the cursor freely by trackball and

measure the distance and direction from the cursor to the dotted line extended



**Data Display** 

Own vessel information

Target setting information

Target information

Substiction information

Alarm information

### AIS

Built-in AIS interface for displaying up to 254 targets.

### ATA

Built-in ATA\* (Automatic Tracking Aid) tracks up to 60 targets.

Selectable auto capture or manual capture. \*ATA is called TT (Target Tracking) in the new IMO regulation.

### **New True Trail Function**

Clearly identifies moving targets from Showing past position with 5 dots for stationary targets. The display shows the ATA targets and AIS targets. exact movement of other vessels like drawing tails. Even when your range PAST POSN TIME is changed, a new trail appears past drawing tails. 3 types of shape are avairable.

PAST POSN (Past position)

## New CFAR Function

This function is Semi-automatic clutter suppression. In comparison with conventional SEA + RAIN, the targets will not shrink.



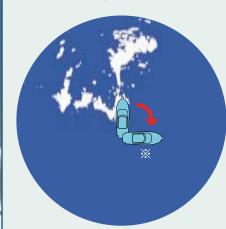


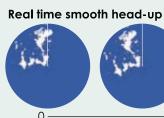


### Real-time Smooth Head-Up Presentation

Display the exact direction and possition of the target in real time.

When own vessel changes heading, the radar image will rotate smoothly in real time, unlike conventional rotation where the image redraws with each radar sweep.



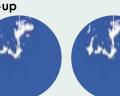
















※ In case own vessel changes heading 90 degrees to the right, during one rotation of antenna in 2.5 seconds (24 rpm)

### Easy Operation

Designed for easy access to all system functions with well-arranged keyboard. Six programable function keys let user customize set-up of various functions. GAIN, STC, FTC, EBL, and VRM are adjustable with one touch by using control knobs. Trackball control with two-color LED lamp for quick-operation day or night.



### Two-color LED lamp for Night

