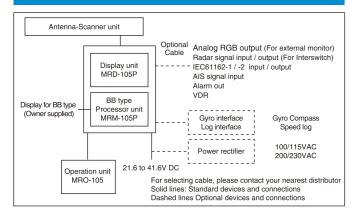
SPECIFICATIONS Antenna-Scanner unit Antenna length Antenna length 4feet / 6feet / 9feet Power output (peak) Output frequency feet: 1.8° / 6 feet: 1.2° / 9 feet: 0.8 Vertical beam width 4,6 feet : 22°/ 9 feet : 25° IF center frequency 60 MHz meters or 1% of the range scale selected, whichever is the greate Range accuracy within 40 m Warm-up time **Environmental**

-25°C to +55°C

| Operating temperature | -23 0 10 | 7 +33 C | |
|-------------------------------|---|----------------|--|
| Display unit / P | rocessor unit for BB t | ype | |
| Model | MDC-2910P / BB | MDC-2920P / BB | |
| Basic range | 0.125 to 72 NM | 0.125 to 96 NM | |
| Display unit | MRD-105P** | | |
| Display size / type | 19 inch color TFT LCD** | | |
| Processor unit (BB type only) | MRM-105P | | |
| Effective diameter | 278 mm | | |
| Display resolution | 1280 x 1024 pixels | | |
| Off-centering | Max. 72% | | |
| Echo area | 1 type (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, Trial Manoeuvre | | |
| 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* | | |
| TT (ARPA) | 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 | - | | |
| Operating temperature | -15°C to +55°C | | |

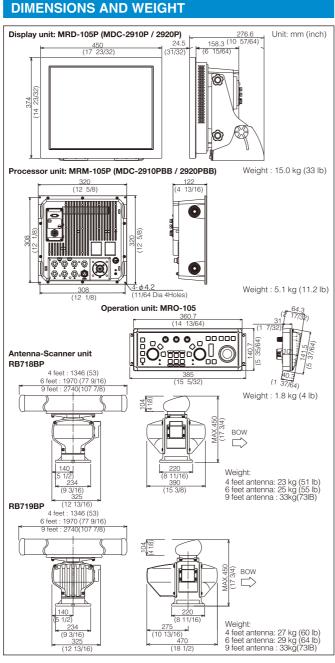
Requires heading, speed, and / or position signal input from external equipment including

CONNECTIONS



| EQUIPMENT LIST Standard Equipment | | | | |
|-----------------------------------|--------------------------|-----------------------------------|------|--|
| | | | | |
| RB719BP | 25 kW | MDC-2920P / BB | | |
| Antenna unit | RW701A-04 | 4 feet | | |
| | RW701A-06 | 6 feet | | |
| | RW701B-09 | 9 feet | | |
| Display unit | MRD-105P** | | | |
| Processor unit (BB type only) | MRM-105P | | | |
| Operation unit | MRO-105 | With 2 m connecting cable | | |
| Connecting cable | 242J159098B-15M | 15 m with connectors on both ends | | |
| DC power cable | CW-259-2M | 2m | | |
| Operation manual Insta | allation manual Installa | tion material | Fusa | |

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



• Design and specifications are subject to change without notice.



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

overseas@koden-electronics.co.ip

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

For details, please contact:





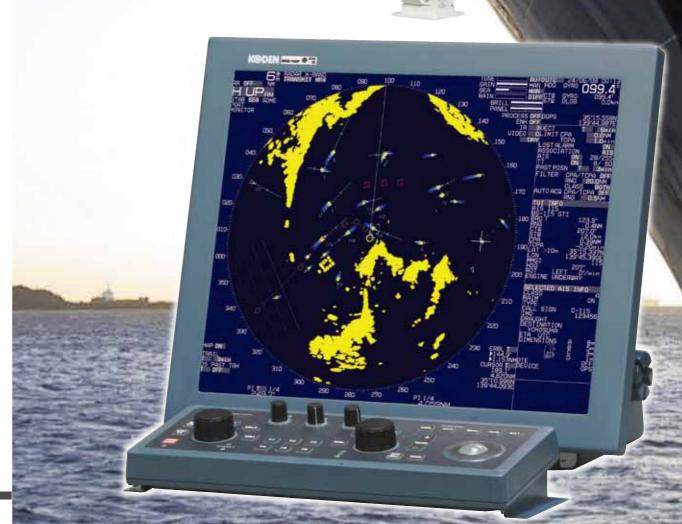
MDC-2900P Series



Confidence with Great Performance

Automatic Radar Plotting Aid





Designed to comply with New IMO and IEC regulations:

IMO A.278 (VIII) / IMO A.694(17) / IMO A.813(19)

IMO MSC.191(79) / IMO MSC.192(79) / IMO MSC.64(67)

IEC 62388 / IEC62288 / IEC60872-1

IEC 61993-2 / IEC 60945 / IEC 61162-1 / IEC61162-2

^{**} Deselect BB type

MDC-2900P_{Series} IMO Radars

MDC-2910P / MDC-2910PBB: 12 kW 4 feet / 6 feet / 9 feet Open MDC-2920P / MDC-2920PBB: 25 kW 4 feet / 6 feet / 9 feet Open

MDC-2900P Series is designed to comply with the new IMO regulations 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. MDC-2910PBB/MDC-2920PBB Black box radars connect to specified IMO approved SXGA type display (owner supplied).

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.

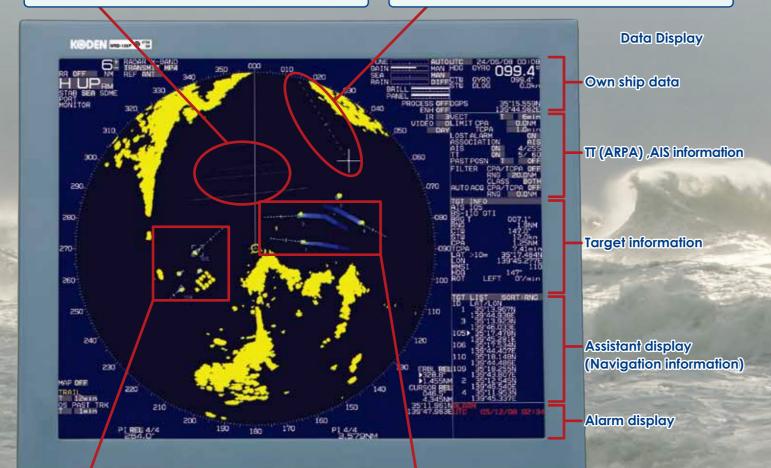
Other superior features are Enhance (ENH), Interference Rejection (IR), Range Rings (RR), VRM, EBL, Trail (True/Rel), Off center, Echo alarm, NAV line, Coast line, Route map, Guard zone, Monitor output, VDR output. Interswitch function for connecting two radar displays without an extra device. Full ARPA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



AIS

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

TT (ARPA)

Built-in TT (ARPA) tracks up to 60 targets. Selectable auto acquisition or manual acquisition.

New True Trail Function



Clearly identifies moving targets from Showing past position with 5 dots for stationary targets. The display shows the TT 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 available.



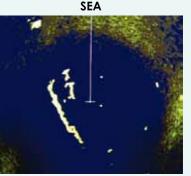
PAST POSN (Past position)

New CFAR Function

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



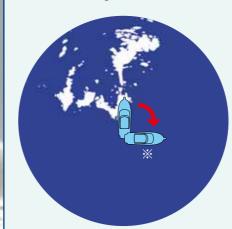


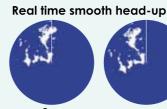


Real-time Smooth Head-Up Presentation

Display the exact direction and position 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.









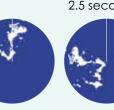


Conventional head-up









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, SEA, RAIN, EBL, and VRM are adjustable with one touch by using control knobs. Trackball is lit areen with LED lamp and the lamp flashes in red when alarm is activated.



Trackball with LED

