

Chart Radar JMA-900M Series

The chart radar is a harmonized system with ECDIS. All nautical information necessary is in "One" display, which efficiently prevents human error, caused by grounding or collision. This solution would be utilized to monitor information relevant to maneuvering, navigation route, ship condition, and so on.



Features

- Compliance with IMO performance standards
The X / S-band, 2-unit / 3-unit, 25 / 30kW conforms to IMO performance standards.
- 23.1-inch color TFT display with high resolution.
- Enhanced Performance and Functionality
- Effective monitoring to prevent collision and grounding
- System construction featuring easy operation
- ARPA function: auto-acquisition and tracking up to 50 targets
- High sensitivity scanner
- Full Inter-switch Function (Option)
- Self-diagnostic / program capacity
- Bridge system accommodation

SPECIFICATIONS

【List of series type】

Model	Frequency	OUTPUT Power	Scanner	Scanner Rev.	Beam Width	Power Supply Power Consumption	Unit
JMA-922M6XA	X-Band	25kW	6 feet	26rpm (60Hz)	H : 1.2°、V : 20°	AC220/230V, 60Hz, 3-phase AC100/110/220/230V, 60Hz, 1-phase Approx. 600VA	2
JMA-922M9XA			9 feet		H : 0.8°、V : 20°		
JMA-923M7XA			7 feet		H : 1°、V : 20°		3
JMA-923M9XA			9 feet		H : 0.8°、V : 20°		
JMA-932MSA	S-Band	30kW	12 feet	26rpm (60Hz)	H : 1.9°、V : 30°	AC220/230V, 60Hz, 3-phase AC100/110/220/230V, 5 60Hz, 1-phase Approx. 800VA	2
JMA-933SA							3

● Radar Function

- **Transmitting Frequency and Power**
 - X-band (9410MHz) : 25kW
 - S-band (3050MHz): : 30kW
- **Maximum Detectable Range** : 96nm or 120nm
- **Range Scale** : 0.125 / 0.25 / 0.5 / 0.75 / 1.5 / 3 / 6 / 12 / 24 / 48 / 96 / 120nm
- **Range Resolution** : less than 30m
- **Minimum Detectable Range** : less than 40m
- **Bearing Accuracy** : less than 1 degree
- **Pulse Width** : 0.07 / 0.10 / 0.15 / 0.2 / 0.3 / 0.6 / 1.2 μ sec

● Display Function

- **Monitor** : 23.1-inch Color TFT
(Valid diameter: more than 340mm)
- **Screen display** : Head-up / North-up / Course-up /
- **Motion mode** : Relative motion (RM) with True trail / Relative motion (RM) with Relative trail / True motion
- **Trails indication / Own Track indication**
- **Off-Center within 60% of PPI radius**

● ARPA Function

- **Acquisition mode** : Auto / Manual
- **Number of Tracking** : 50 targets (Automatic)
- **Acquisition and Tracking Range** : 32nm
- **Vector mode** : True vector / Relative vector
- **Guard Zone** : 2
- **Parameter of Safe Limit**
 - CPA : 0.1 - 9.9 nm
 - TCPA: 1 - 99 min.
- **Alarm Indication** : Mark on the display with Visible / Audible Alarm
- **Trial Maneuver**

● AIS Function

- **Number of AIS target available to indicate** : 300 targets
- **AIS Information**
 - Basic Info : Ship Name, Call sign, MMSI, COG, SOG, CPA, TCPA
 - Detail Info : Bearing, distance, heading, Rate of turn, ship position (added with basic info)
- **AIS Filtering Parameter** : Distance from own ship, Sector
- **Dangerous Target Detection Parameter** : CPA, TCPA
- **Interface**
 - Available IEC61162-2 sentence : VDM / VDO / ALR
 - Electrical condition: IEC61162-2 / RS-422

● Electric Navigation Chart Display mode

Chart Display

- **Chart database** : ENC*1 S-57Ed.3.0, Ed.3.1 (Including S-63) / C-MAP CM-93 Ver.2 / Ver.3*2
- **Screen display** : Head-up / North-up / Course-up, (simultaneously in Radar display)
- **Motion mode** : True / Relative (simultaneously in Radar display)
- **Scale Range** : 0.125nm — 120nm (simultaneously in Radar display)
- **Monitoring**
 - Plotting of own ship position and track
 - Cross safety contour / Cross dangerous area
 - Waypoint arrival
 - Route deviation
- **Update of Electronic Chart information**

*1) ENC: Electronic Navigation Chart

*2) CM-93 Ver.3 is available in only TM and N-UP

For further information, contact:



Since 1915

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