JRC MICRO RADAR

JMA-2043/JMA-2044MI

(3cm, 2ft, 4kW) 10-inch, 24nm.) (3cm, 3.5ft, 4kW) 10-inch, 32nm.





Small, But High Performance.
The Ship's Position, Course and Speed
Are Displayed in Connection to Loran C Receiver.





Compact Design

The compact two-unit design for easy installation in a small space. The scanner unit is available in a two-foot radome type of 9.5 kg weight and in a 3.5-foot rotating scanner type of 24 kg weight. The display unit employs a 10-inch square CRT, weighting 7.5 kg.

Easy-To-See Bright Video Display

The display unit employs a high-resolution monochrome (green) TV-like bright display, ensuring easy-to-see, clear radar videos.

Easy Installation

Connection between the scanner unit and the display unit needs only a single plug-in composite cable. The display unit is designed for flexible installation on a table top, bulkhead, or overhead.

Easy Reading of Position Data

The ship's bearing and distance can be measured easily with an electronic bearing line (EBL) and a variable range marker (VRM). These measurements are digitally displayed on the screen. When the radar is connected to a Loran-C receiver, the ship's position, course and speed can be displayed on the screen, being helpful for navigation and fishing operations.

Alarm Against Danger

A guard zone can be set on the display. When a dangerous target enters the zone, an alarm is raised, contributing to collision avoidance, prevention of stranding or watch-keeping.

Radar Interference Rejection

The radar incorporates an interference rejector to eliminate radar interference from any other ship and other unwanted noise signals, ensuring clear radar videos.

Expander Function

The echoes of small targets can be expanded and displayed, ensuring easy-to-see clear radar videos.

Panel Illumination

The operating panel is straightforwardly designed for easy operation based on human engineering. It can be illuminated for convenience in nighttime operation.



SPECIFICATIONS

SCANNER UNIT

Scanner type:

JMA-2043:

2-foot radome type (NKE-1008) 3.5-foot rotating scanner type

25°

30°

JMA-2044MI:

(NKE-1031)

Beamwidth:

Horizontal Vertical

JMA-2043:

3.9°

JMA-2044MI:

2.4°

Rotation speed:

JMA-2043:

JMA-2044MI:

Peak power:

Frequency: Pulse length:

Pulse repetition frequency:

JMA-2043:

JMA-2044MI: Duplexer:

Mixer:

27rpm 24rpm

4kW 9.445MHz

 $0.12\mu S$, $0.5\mu s$

920Hz

820Hz Circulator

MIC mixer with low-noise

amplifler

DISPLAY UNIT

Effective display area:

Display type:

10-inch raster-scan monochrome

(green) CRT

140mm (5.5-inch) diameter

4 8 16 24* 32**nm Range scale: 0.25 0.5 2 1/8 0.25 0.5 1 2 6* Range rings: 1/16 4 8**nm

*JMA-2043 **JMA-2044MI

GENERAL

Power supply:

12/24/32 VDC

Power consumption:

Approx. 55W (JMA-2043) Approx. 90W (JMA-2044MI)

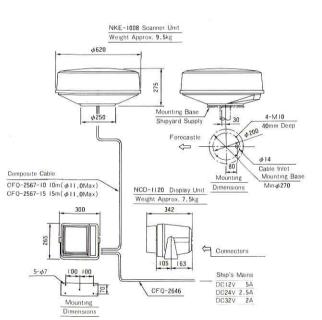
For AC operation, the NBA-3400 rectifier is optionally needed for the JMA-2043 and the NBA-797A

rectifier for the JMA-2044MII

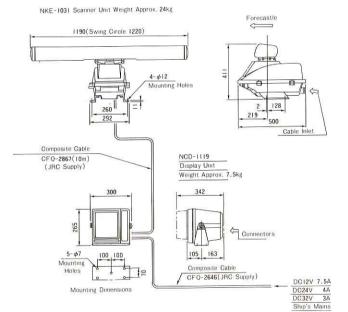
*Specifications subject to change without notice.

CONNECTION DIAGRAM

JMA-2043



JMA-2044MI



1. The distance between the units as follows Scanner unit to display unit: 10m standard; 20m maximum

2. Eliminating the interference on frequencies used for marine communications and navigation due to operation of the radar. All cables of radar Are to be run away from the cables of radio equipment iex. Radiotelephone, communications receiver and direction finder etc.). Especially inter-wiring cables between scanner unit and display unit of the radar should not be run parallel with the cables of radio equipment.

Specifications subject to change without notice.

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