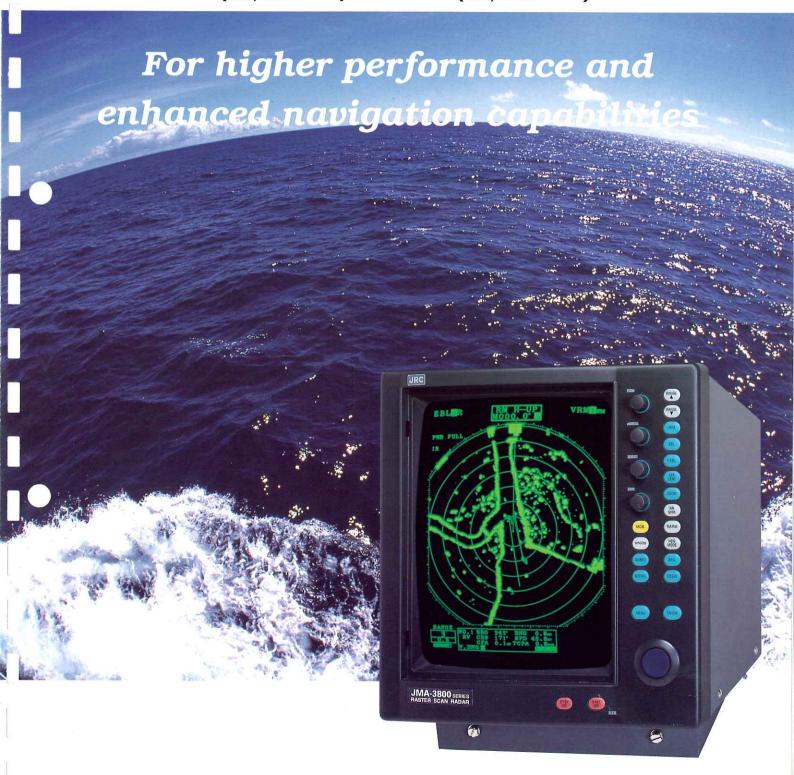
# JRC MARINE RASTER-SCAN RADAR

## JMA-3806/JMA-3810

(3cm, 4/6ft, 6kW) 12in, 48nm (3cm, 4/6ft, 10kW) 12in, 72nm





4-ft Scanner Unit

6-ft Scanner Unit

#### **FEATURES**

#### Higher fundamental performance of radar

The pulse width and repeated frequency settings in four steps and the reception band width setting in three steps for the selected range scale provide higher fundamental performance of radar to implement a clear and high quality image.

## MARPA(Mini-ARPA) essential for safety navigation

The features of the automatic radar plotting aid(ARPA) used for large ships is standard in this radar. The MARPA automatically tracks up to six other ships and provides data on their courses and speeds as well as their bearings and ranges in vector or numeric forms. The movements of acquired targets can be readily observed, thus providing safer navigation.

## Easy discrimination through TM display(true motion display)

TM display allows fixed and moving targets to be easily discriminated. Moving targets are displayed as images as if they were being viewed form the above which is very helpful for safety navigation.

### Observe own ship position and destination

This radar can be connected with navigation equipment such as GPS to display the position and the waypoint mark of your ship on the screen. You can see the presence of obstacles on the navigating course at a glance.

#### Storing the current position immediately

Single touch button operation will store the current position into the memory instantly. As own ship moves, the radar indicates a mark for that point and plots a dotted line to that position with the orientation and range displayed as values. For example, Man-Over-Board, when and object is dropped into the water, or for a net casting point etc., it is displayed on the screen.

#### Use of custom range

The desired range scale can be selected by the menu. For example, when a target to be observed spans over two ranges, the range scale can be freely selected in specific range marker pitches to obtain more accurate image information.



#### CONTROL PANEL

- Stand-by/OFF Transmit/OFF
- Range scale UP Range scale DOWN
- Tune Control
- Rain clutter Control
- Sea clutter Control
- Gain Control
- VRM Enable/Select
- 8 EBL Enable/Select
- Free Floating EBL Enable
- Display OFF Center
- Display Zoom Enable
- Range Rings ON/OFF and Ship's Heading Marker OFF
- True Motion/Relative Motion
- Heading Mode Selection
- 1 Brilliance Level Selection
- MARPA designate target Information
- Man Over Board
- Non Operational
- Guard Zone Select
- MARPA Acquire/Cancel
- MENU Recall
- Enter Data
- TRACK PAD

#### **SPECIFICATIONS**

#### **SCANNER UNIT**

Scanner length Polarization Beamwidth

**Rotation speed** Wind velocity Transmitting frequency Peak power Pulse length/PRF

4 ft or 6 ft Horizontal Horizontal 2.0° (4ft) 1.2° (6ft) Vertical 30° (4ft) 25° (6ft) Approx. 24 rpm

51.5m/s(100kt) 6kW(JMA-3806), 10kW(JMA-3810)

0.08 µs/2000Hz(0.125-1.5nm) 0.4 µs/1500Hz(1.5, 3, 6nm) 0.8µs/750Hz(3, 6, 12, 24nm) 1.2µs/500Hz(12, 24, 48, 72nm)

#### **DISPLAY UNIT**

**CRT** type Video Display resolution Standard range scale

12-inch square, monochrom(green) 8 levels, quantized

928 dots×698 lines

0.125, 0.25, 0.5, 0.75, 1.5, 3, 6, 12, 24, 48

(JMA-3806) 0.125, 0.25, 0.5, 0.75, 1.5, 3, 6, 12, 24, 48, 72 (JMA-3810)

Plus 25 custom range scales (user selectable)

RM(Relative motion)/ TM#2(True motion)

Head-up, Course-up#1, North-up#1 Dual VRM's with 4 digit readout Dual EBL's with 4 digit readout

Free EBL Available Manual/Automatic

IN/OUT

Up to 2/3 radius(except maximum range) ×2(Enlargement)(except 0.125nm)

Available

OFF, 0.5, 1, 3, 6 min and continueous Transmit period(10, 20, 30 scan) Sleep period(3, 5, 10, 15min) Man over board:position/Bearing/

Distance/Time#2

Digital display

Range, Range rings, EBL's, VRM's

Ship's course<sup>±1</sup>, speed<sup>±2</sup>, position<sup>±3</sup> Waypoint position<sup>±4</sup>, Cursor position<sup>±2,3</sup>

NAV Aids:NMEA0183(GLL, GTD, VTG, BWC, Interface

ZTG, RMA&RMB, RMB&RMC) NMEA0182, JRC format Electronic compass:NMEA0183

(HDG, HDM, HDT, VHW)

10.8-42.0 VDC, approx. 120W(JMA-3806) approx. 130W(JMA-3810) AC operation:optional with the NBA-797A

rectifier unit

#### MARPA\*2

Power supply

Acquisition . Cancellation Tracking Vector mode

Vector length MARPA alarm

Numerical display

Intercept mode

Manual(6 targets max) By 1 target each or all targets Automatic, up to 14.8nm Relative/True

1, 3, 6, 12 min.

Very dangerous target/Lost target Bearing/Range/True course/ True speed/CPA/TCPA

Intercept course/Intercept speed/Intercept time

#### **OPTIONS**

Gyro Log Interface kit Rectifier unit

MDLW10664A NBA-797A

- Course information from gyrocompass or electronic compass is necessary.
- Course information from gyrocompass or electronic compass and speed information from log or GPS are necessary.
- Position information (L/L) from navigator is necessary.
- A navigator capable of outputting the destination is required.

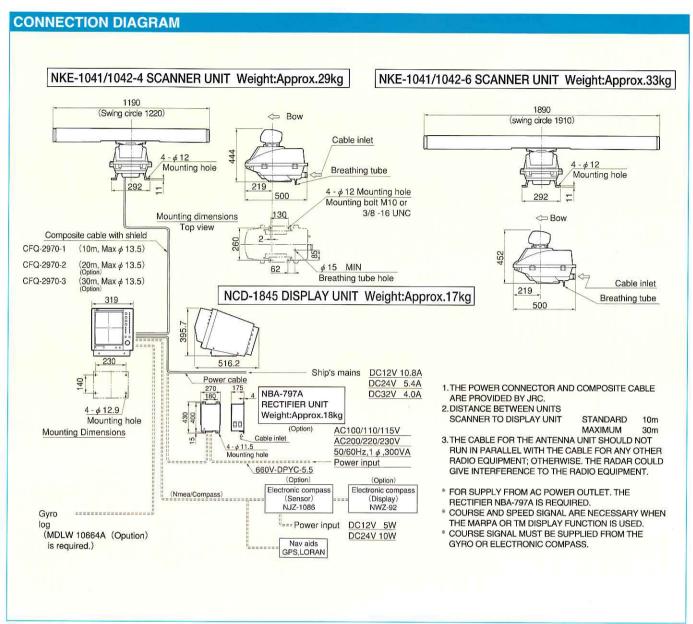
#### Motion

Bearing presentation **EBL** 

Tuning Guardzone alarm Off-Center Zoom Interference reject Wakes

MOB

Timed TX



Specifications subject to change without notice.

For further information, contact:

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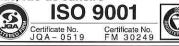
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