

# JRC MARINE RADAR

## JMA-2343/2344



Scanner (2ft) for JMA-2343



Scanner (3.9ft) for JMA-2344

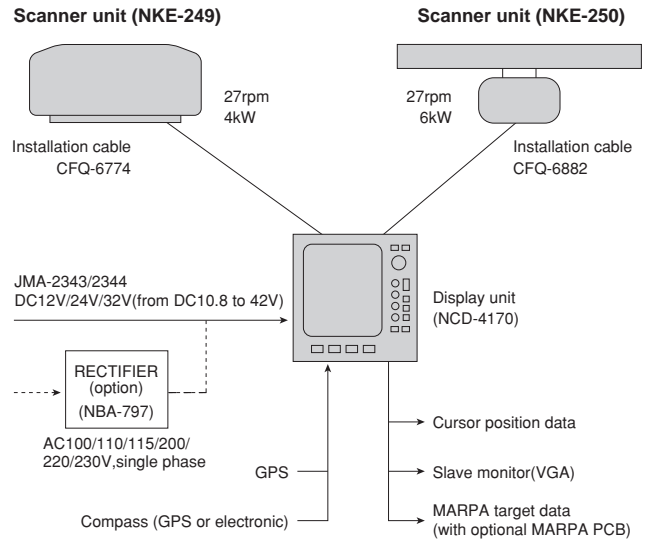


- Latest digital signal processing for target detection.
- 4kW transmitting output power for JMA-2343, and 6kW for JMA-2344.
- NMEA 0183 RSD for cursor position data output.
- Optional MARPA function.
- Easy operation with soft key switch.

## COMPOSITION

JMA-2343/2344		
Model name	JMA-2343 (Radome)	JMA-2344 (Open Array)
Input power	DC12V, DC24V, DC32V (Range : From DC10.8V to 42V)	
Scanner unit	NKE-249	NKE-250
Display unit	NCD-4170	
Installation cable (10m/15m/20m)	CFQ-6774-** ** : 10 (for 10m) : 15 (for 15m;Standard) : 20 (for 20m)	CFQ-6882-** ** : 10 (for 10m) : 15 (for 15m;Standard) : 20 (for 20m)
Rectifier for AC input (option)	NBA-797	

## CONNECTION DIAGRAM



## SPECIFICATIONS

### Scanner unit ( NKE-249 ; Radome )

- Dimensions Height:275mm(11"), Diameter of radome:620mm(24.8")
- Mass Approx. 10.5kg
- Polarization Horizontal
- Beam width
  - Horizontal (-3dB) 4°
  - Vertical(-3dB) 25°
  - Side lobe level Less than -21dB within 10° of main beam
- Rotation speed Approx. 27 rpm
- Frequency 9410±30 MHz
- Peak power 4kW.
- Pulse length/repetition frequency
  - 0.08μs/2250 Hz:0.125, 0.25, 0.5, 0.75, 1.5nm(S)
  - 0.25μs/1700 Hz:1.5nm(L), 3nm(S)
  - 0.5μs/1200Hz:3nm(L), 6nm(S)
  - 1.0μs/650Hz:6nm(L), 12nm, 24nm, 36nm, 48nm (S:Short, L:Long)

### Scanner unit ( NKE-250 ; Open Array )

- Dimensions Height:17.3inches, Swing circle:48.8inches
- Mass Approx. 52.86pounds
- Polarization Horizontal
- Beam width
  - Horizontal (-3dB) 2°
  - Vertical(-3dB) 30°
  - Side lobe level Less than -23dB within 10° of main beam  
Other than -26dB within 10° of main beam
- Rotation speed NKE-250: Approx. 27 rpm
- Frequency 9410±30 MHz
- Peak power 6kW.
- Pulse length/repetition frequency
  - 0.08μs/2250 Hz :0.125, 0.25, 0.5, 0.75, 1.5nm(S)
  - 0.25μs/1700 Hz:1.5nm(L), 3nm(S)
  - 0.5μs/1200Hz:3nm(L), 6nm(S)
  - 1.0μs/650Hz:6nm(L), 12nm, 24nm, 36nm, 48nm, 64nm (S:Short, L:Long)

### Display unit ( NCD-4170 )

- Display Unit 10-inch square CRT
- Dimensions
  - Width : 278mm(10.9") — without mounting yoke
  - Height : 242mm(9.5")
  - Depth : 289mm (11.4")— without sunshield
  - Approx. 9kg
  - Table mounting.
- Mounting
- Range scale/rings
  - 0.125nm/0.065nm, 0.25nm/0.125nm, 0.5nm/0.1nm, 0.75nm/0.25nm, 1.5nm/0.5nm, 3nm/0.5nm, 6nm/1nm, 12nm/2nm, 24nm/4nm, 36nm/6nm, 48nm/8nm, 64nm/16nm(when JMA-2344 / JMA-2344HS)
- Input from external device NMEA0183(GGA,RMA,RMC,GLL,RMB,BWC,VTG, VHW,HDT,HDM,HDG,GLC,GTD)
- Output to external device NMEA0183(RSD)  
SUB monitor(Vertical / Horizontal synchronous signal, video signal)
- Power supply <JMA-2343/JMA-2344>  
From DC 10.8 to 42V  
<JMA-2343>  
Approx. 50W  
<JMA-2344>  
Approx. 60W

• Specifications may be subject to change without notice.

For further information, contact:



Since 1915

**Japan Radio Co., Ltd.**

URL <http://www.jrc.co.jp/eng/>

**Main Office:** Fujisawa bldg. 30-16, Ogikubo 4-chome  
Suginami-ku, Tokyo 167-8540, Japan  
Telephone: +81-3-6832-1816  
Facsimile: +81-3-6832-1845

**Overseas Branches :** Seattle, Amsterdam, Athens, Manila  
**Liaison Offices :** Taipei, Jakarta, Singapore, Hanoi,  
Shanghai, Hamburg, New York