

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)	CPQ-6774- + ++ : 10 (for 10m) : 15 (for 15m/Standard) : 20 (for 20m)	CPQ-6882- + ++ : 10 (for 10m) : 15 (for 15m/Standard) : 20 (for 20m)
Rectifier for AC input (option)	NBA-797	

SPECIFICATIONS

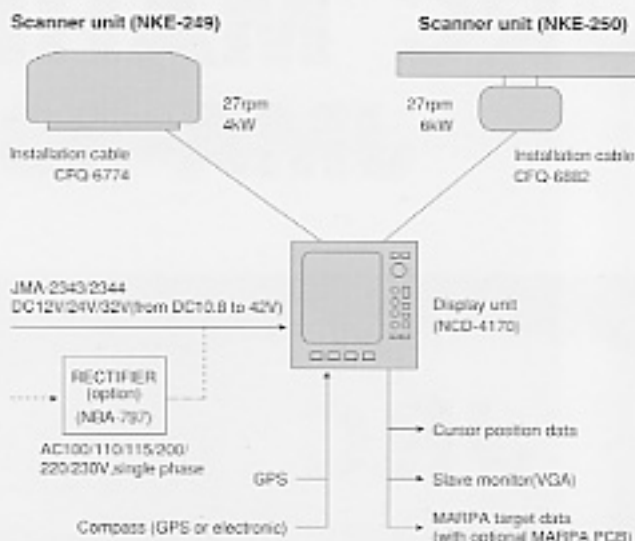
Scanner unit (NKE-249 ; Radome)

● 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	0.05µs/2250 Hz (0.125, 0.25, 0.5, 0.75, 1.5ms(S)) 0.25µs/1700 Hz (1.5ms(L), 3ms(S)) 0.5µs/1200 Hz (3ms(L), 6ms(S)) 1.0µs/600 Hz (6ms(L), 12ms, 24ms, 36ms, 48ms (S:Short, L:Long))

Scanner unit (NKE-250 ; Open Array)

● Dimensions	Height: 17.3inches, Swing circle: 18.8inches
● Mass	Approx. 52.8pounds
● Polarization	Horizontal
● Beam width	
Horizontal (-3dB)	2°
Vertical (-3dB)	30°
Side lobe level	Less than -25dB 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	0.05µs/2250 Hz (0.125, 0.25, 0.5, 0.75, 1.5ms(S)) 0.25µs/1700 Hz (1.5ms(L), 3ms(S)) 0.5µs/1200 Hz (3ms(L), 6ms(S)) 1.0µs/600 Hz (6ms(L), 12ms, 24ms, 36ms, 48ms, 60ms (S:Short, L:Long))

CONNECTION DIAGRAM



Display unit (NCD-4170)

● Display Unit	16-inch square CRT
● Dimensions	Width : 275mm (10.8") - without mounting yoke Height : 242mm (9.5") Depth : 285mm (11.2") - without sunshield Approx. 9kg
● Mounting	Table mounting.
● Range scale/rings	0.125mm/0.0625mm, 0.25mm/0.125mm, 0.5mm/0.25mm, 0.75mm/0.375mm, 1.5mm/0.75mm, 3mm/1.5mm, 6mm/3mm, 12mm/6mm, 24mm/12mm, 36mm/18mm, 48mm/24mm, 60mm/30mm, 72mm/36mm, 96mm/48mm, 120mm/60mm, 144mm/72mm, 168mm/84mm, 192mm/96mm, 216mm/108mm, 240mm/120mm, 264mm/132mm, 288mm/144mm, 312mm/156mm, 336mm/168mm, 360mm/180mm, 384mm/192mm, 408mm/204mm, 432mm/216mm, 456mm/228mm, 480mm/240mm, 504mm/252mm, 528mm/264mm, 552mm/276mm, 576mm/288mm, 600mm/300mm, 624mm/312mm, 648mm/324mm, 672mm/336mm, 696mm/348mm, 720mm/360mm, 744mm/372mm, 768mm/384mm, 792mm/396mm, 816mm/408mm, 840mm/420mm, 864mm/432mm, 888mm/444mm, 912mm/456mm, 936mm/468mm, 960mm/480mm, 984mm/492mm, 1008mm/504mm, 1032mm/516mm, 1056mm/528mm, 1080mm/540mm, 1104mm/552mm, 1128mm/564mm, 1152mm/576mm, 1176mm/588mm, 1200mm/600mm, 1224mm/612mm, 1248mm/624mm, 1272mm/636mm, 1296mm/648mm, 1320mm/660mm, 1344mm/672mm, 1368mm/684mm, 1392mm/696mm, 1416mm/708mm, 1440mm/720mm, 1464mm/732mm, 1488mm/744mm, 1512mm/756mm, 1536mm/768mm, 1560mm/780mm, 1584mm/792mm, 1608mm/804mm, 1632mm/816mm, 1656mm/828mm, 1680mm/840mm, 1704mm/852mm, 1728mm/864mm, 1752mm/876mm, 1776mm/888mm, 1800mm/900mm, 1824mm/912mm, 1848mm/924mm, 1872mm/936mm, 1896mm/948mm, 1920mm/960mm, 1944mm/972mm, 1968mm/984mm, 1992mm/996mm, 2016mm/1008mm, 2040mm/1020mm, 2064mm/1032mm, 2088mm/1044mm, 2112mm/1056mm, 2136mm/1068mm, 2160mm/1080mm, 2184mm/1092mm, 2208mm/1104mm, 2232mm/1116mm, 2256mm/1128mm, 2280mm/1140mm, 2304mm/1152mm, 2328mm/1164mm, 2352mm/1176mm, 2376mm/1188mm, 2400mm/1200mm, 2424mm/1212mm, 2448mm/1224mm, 2472mm/1236mm, 2496mm/1248mm, 2520mm/1260mm, 2544mm/1272mm, 2568mm/1284mm, 2592mm/1296mm, 2616mm/1308mm, 2640mm/1320mm, 2664mm/1332mm, 2688mm/1344mm, 2712mm/1356mm, 2736mm/1368mm, 2760mm/1380mm, 2784mm/1392mm, 2808mm/1404mm, 2832mm/1416mm, 2856mm/1428mm, 2880mm/1440mm, 2904mm/1452mm, 2928mm/1464mm, 2952mm/1476mm, 2976mm/1488mm, 3000mm/1500mm, 3024mm/1512mm, 3048mm/1524mm, 3072mm/1536mm, 3096mm/1548mm, 3120mm/1560mm, 3144mm/1572mm, 3168mm/1584mm, 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