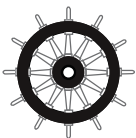


Marine Radar

JMR-5400 Series



Dramatically improved short-range detection

- Meets the newest IMO radar standards and has MED certification.
- Short-range target detection clearly displays small oceanic targets.
- Makes the movements of other ships clear and easily detected.
- Operating environment is easily customized to suit the user's needs.

IMO-compliant and MED-certified marine radar.*1

*1: Cat. 2 certification.

The JMR-5400 series is equipped with a top-of-the-line processor, remarkably improving target detection and drawing performance a like. Also, in addition to the newly developed and highly sensitive radar antenna, an 8ft S band solid-state radar antenna is also available.

High-resolution display with 1,000 cd/m² brightness*2

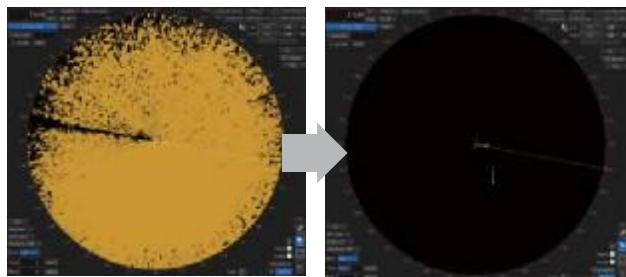
*2: 19-inch model only.



The newest signal processing technology with highly refined image display.

Short-range target detection and clutter removal functionality.

Small oceanic targets that were previously difficult to detect are displayed crisply and clearly. Automatic clutter removal and optimized technology has dramatically improved detection capabilities, and also allows the positions of other ships to be displayed clearly.



TT/AIS display functionality

Equipped with TT functionality by default, allowing users to mark other ships and points of interest with TT symbols and check the course of nearby objects at a glance. The same highlighting functionality is also available for AIS symbols.

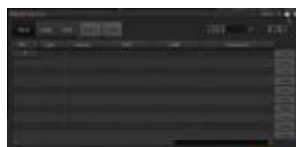


Original Menu

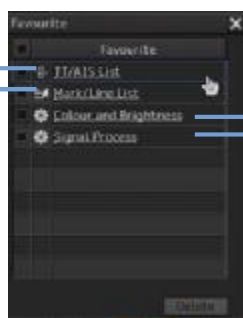
Create original menus that include only the items you need, and a favorites list to bring up frequently used items in one location.



TT/AIS List



Mark/Line List



Favorite Menu



Color/Brightness Settings



Signal Processing Settings



Remote Maintenance System (RMS)-compatible

The JMR-5400 series is compatible with JRC's proprietary Remote Maintenance System (RMS), which uses JRC's VDR and satellite communications to remotely link to the equipment onboard the vessel to perform remote diagnostics and preventive maintenance. For more information on RMS, please contact JRC's business department.

Radar antennas with exceptionally reliable target detection capabilities.



S band - 8ft 250W solid-state radar antenna

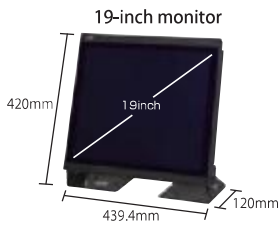
Further miniaturization provides even greater mountability.



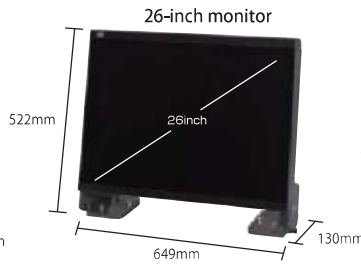
New Radar Antenna

A newly tuned system cuts search times to roughly 1/4th of what they were previously. Additionally, thinning of the antenna height means improved drive device reliability.

Display units



NWZ-214 Weight : 4.6kg
4.9kg (w/C option)



NWZ-208 Weight : 10kg

Processor



NDC-1678 Weight : 7.1kg

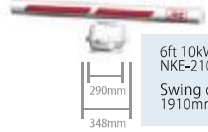
Keyboard



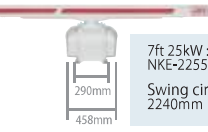
NCE-5794 (Standard keyboard) Weight : 2.0kg

Scanners

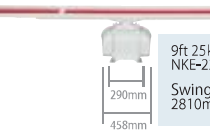
10kW X-band scanner
[High speed]



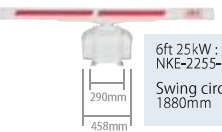
25kW X-band scanner



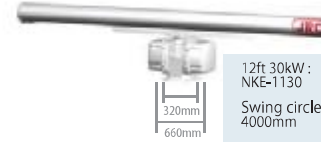
25kW X-band scanner



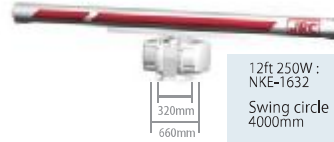
25kW X-band scanner



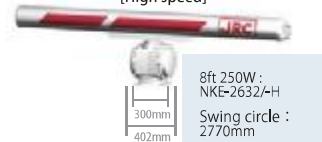
30kW S-band scanner (2 unit)



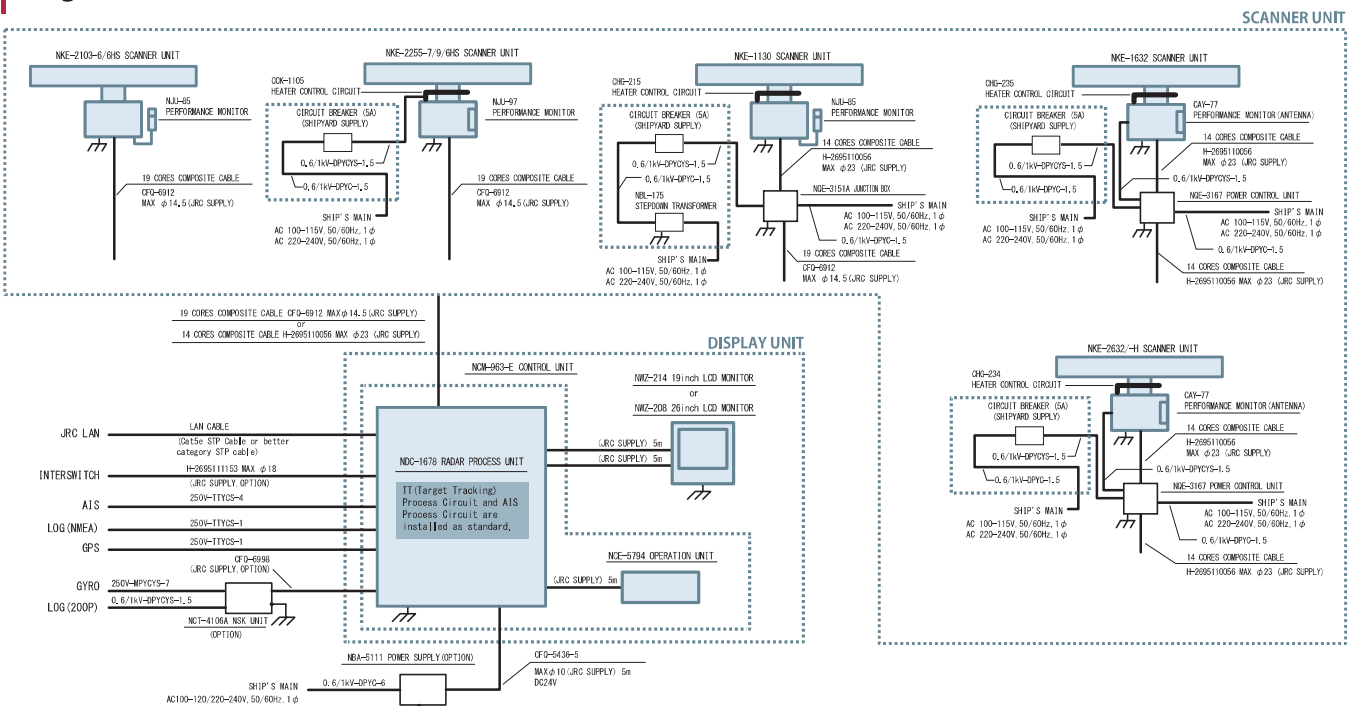
250W S-band solid-state scanner



250W S-band solid-state scanner
[High speed]



Diagram



Specifications

| Model | JMR-5410-6X | JMR-5410-6XH | JMR-5425-7X | JMR-5425-9X | JMR-5425-6XH | JMR-5430-S | JMR-5472-S | JMR-5482-S | JMR-5482-SH |
|---|--|------------------------|---|------------------------|---|---|--|--|-------------|
| Display | colour raster scan PPI | | | | | | | | |
| Range scale | 0.125/0.25/0.5/0.75/1.5/3/6/12/24/48/96NM | | | | | | | | |
| Scanners | | | | | | | | | |
| Model | NKE-2103-6/HS | | NKE-2255-7 | NKE-2255-9 | NKE-2255-6HS | NKE-1130 | NKE-1632 ^{※1} | NKE-2632/H ^{※1} | |
| Transmitting power | 10kW | | 25kW | | | 30kW | 250W | | |
| Transmitting frequency | 9410MHz±30MHz | | 9410MHz±30MHz | | | 3050MHz±20MHz | P0N:3035MHz, Q0N:3065MHz±4MHz or 3060MHz±4MHz | | |
| Antenna length | 6ft | | 7ft | 9ft | 6ft | 12ft | 12ft | 8ft | 8ft |
| Rotation speed | 27rpm | 48rpm | 24rpm | 24rpm | 48rpm | 24rpm | 24rpm | 24rpm | 48rpm |
| Horizontal beam width | 1.2° | | 1.0° | 0.8° | 1.2° | 1.9° | 1.9° | 2.7° | 2.7° |
| Vertical beam width | 20° | | 20° | 20° | 20° | 25° | 25° | 25° | 25° |
| Weight | 36kg | | 52kg | 55kg | 50kg | 180kg | 160kg | 85kg | 90kg |
| Pulse width | 0.08 μs/2250Hz 0.25 μs/1700Hz 0.5 μs/1200Hz 0.8 μs/750Hz 1.0 μs/650Hz | | 0.07 μs/2250Hz, 0.2 μs/2250Hz 0.3 μs/1900Hz, 0.4 μs/1400Hz 0.8 μs/750Hz, 1.0 μs/650Hz 1.2 μs/510Hz | | | 0.07 μs/(4.6 μs, 8MHz)/1860Hz or 2280Hz 0.14 μs/(9.1 μs, 8MHz)/1860Hz or 2280Hz 0.29 μs/(9.1 μs, 8MHz)/1860Hz or 2280Hz 0.57 μs/(9.1 μs, 8MHz)/1280Hz 1.14 μs/(18.3 μs, 8MHz)/640Hz | | | |
| Duplexer | circular + diode limiter | | | | | | | | |
| Tuning | automatic / manual | | | | | | | | |
| Ambient condition | temperature : -25°C~+55°C relative humidity : 93% @ 40°C | | | | | | | | |
| Processor | | | | | | | | | |
| Model | NDC-1678 | | | | | | | | |
| Bearing indication | RM display : north-up / course-up / head-up TM display : north-up / course-up | | | | | | | | |
| Presentation mode | RM display with true trail, RM display with relative trail, TM display | | | | | | | | |
| EBL | 2 (EBL1/EBL2) (center/independent) 000.0° - 359.9°, digital display | | | | | | | | |
| VRM | 2 (VRM1/VRM2) 0.000 ~ 96.0NM, digital display | | | | | | | | |
| Trail indication | off/0.25/0.5/1/3/6/10/15/30/60-min | | | | | | | | |
| Display | | | | | | | | | |
| Model | NWZ-214 (19-inch) /NWZ-208 (26-inch) | | | | | | | | |
| LCD | 1280×1024 dot (SXGA) (19-inch) /1920×1200 dot (WUXGA) (26-inch) | | | | | | | | |
| PPI Effective diameter | ≥250mm | | | | | | | | |
| Connection cable | 5m (processor-monitor) | | | | | | | | |
| Number of TT tracking targets | 30 targets max. (expanding to a maximum 100 targets with an optional function added) | | | | | | | | |
| TT Tracking Range | Auto/Manual 32 NM max. | | | | | | | | |
| Number of AIS targets | 180 targets max. (expanding to a maximum 1,000 targets with an optional function added) | | | | | | | | |
| TT/AIS vector | True/Relative, variable from 1 to 120 minutes | | | | | | | | |
| Keyboard | | | | | | | | | |
| Model | NCE-5794 | | | | | | | | |
| Connection cable | 5m (processor-keyboard) | | | | | | | | |
| Ambient conditions | Operating temperature:-15 to 55°C; Relative humidity: 93% @40°C (processor,display,keyboard) | | | | | | | | |
| installation cable | CFQ-6912-20 length 20m (max length 65m) | | | | | CFQ-6912-20 length 20m 2695110056 | 2695110056 | | |
| Power supply(voltage) | DC21.6~36.0V | | | | | DC21.6~36.0V, AC100V~240V | | | |
| Power consumption (max wind) | NWZ-214 NWZ-208 | Max. 350W Max. 400W | Max. 400W Max. 450W | Max. 500W Max. 550W | Max. 450W Max. 500W | Max. AC:1700VA/DC:200W Max. AC:1700VA/DC:250W | Max. AC:1300VA/DC:200W Max. AC:1300VA/DC:250W | Max. AC:1700VA/DC:200W Max. AC:1700VA/DC:250W | |
| Option | | | | | | | | | |
| Trackball Operation Unit | NCE-5605 | | | | Monitor Stand | CWB-1660 (26-inch) /CWB-1659 (19-inch) | | | |
| Trackball Operation Unit Installation Cable | ZZCNA4152 | | | | Monitor Cover | CWB-1621 (26-inch) /CWB-1619 (19-inch) | | | |
| Keyboard Operation Unit | NCE-5625 | | | | Monitor Hood | CWB-1620 (26-inch) /CWB-1618 (19-inch) | | | |
| Junction Box | NQE-1143 | | | | Printer | Printer:7HPNA4003, L Type Stopper (Printer Fixture):QL-58 | | | |
| Sensor LAN Switch Unit | NQA-2443 | | | | Operation Unit RS-422 | 10m:7ZCRD1746, 20m:7ZCRD1747, 30m:7ZCRD1748, | | | |
| Rectifier | NBA-5111 | | | | Extension Cable | 40m:7ZCRD1749, 50m:7ZCRD1750 (maximum length) | | | |
| Interswitch Unit | NQE-3141-4A (4ch) /NQE-3141-8A (8ch) | | | | NSK Unit | NCT-4106A | | | |
| Power Control Unit | NQE-3167 | | | | CMH-2370 Serial LAN Interface Circuit Spare Parts | 7ZXNA4020 | | | |
| Distributor for Remote Monitor | Video Distribution Amplifier:VAC-2001HB-A | | | | 7HPNA4003 Printer Spare Parts | 7ZXNA4011 | | | |
| Display Connection | Monitor Extension Kit:CQF-5957 | | | | | | | | |

※1: NKE-1632, NKE-2632 scanner antennas: Transmission pulse width (1st)/(Transmission pulse width and frequency shift width (2nd))/Repetition frequency

• Specifications may be subject to change without notice.

For further information, contact:



Since 1915

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