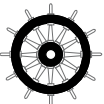


# JSS-2150 MF/HF radio equipment

JRC



*– the newly designed 150W MF/HF radio equipment delivers enhanced performance and stability*

- 3.8–inch high visibility display**
- Standard 6 channel DSC built-in**
- Flexible black box configuration**
- Digital audio and integrated speaker**
- Easy operation with JOG dial**

# MF/HF radio equipment – performance features

## Unique features

- The new JSS-2150 Class A MF/HF radio equipment features an intuitive user interface and advanced modular design that allows for a flexible installation approach in confined spaces.



## 6-channel DSC built-in

The MF/HF has a 6-channel Digital Selective Calling (DSC) as standard with a built-in DSC watch-keeping receiver. You can generate and receive digital selective calls for quick and efficient establishment of distress, urgency, safety and routine communication with other ships and coast stations.

In urgent situations, the JSS-2150 sends a distress alert once you press the distress button. The integrated DSC watch-keeping receiver monitors distress alarms through continuous scanning of distress frequencies.

## Digital audio

The MF/HF integrates an advanced digital audio amplifier with a built-in speaker, which increases the amount of power, making your message loud and clear.



## Setting your settings

The JSS-2150 uses a 3.8-inch high visibility LCD display, which you can adjust at your own convenience. The display has 10 dim settings and you can set the contrast up to 11 different levels, integrated screensaver and assign a commonly used menu to the user key for direct access. These are just a few of the possibilities.

## Distress alerts

The JSS-2150 includes a prominent distress button, with features to prevent accidental activation. When in distress, you can send a DSC message instantly, transmitting your MMSI, position, time of position and nature of distress, enabling an immediate response for search and rescue efforts.

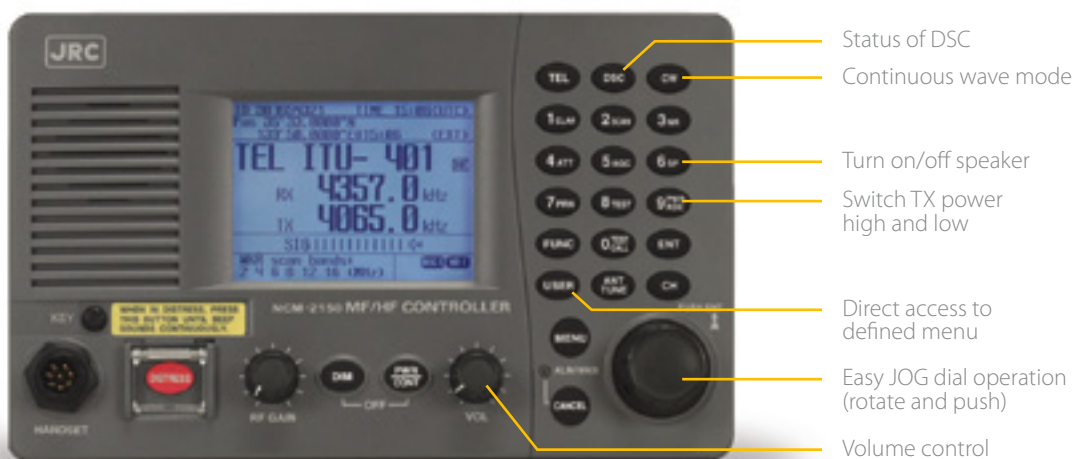


# MF/HF radio equipment

## – developed for maximum ease of use

### Unified design

The new controller design allows you to carry out all operations simply by using the same unified keyboard layout as found in JRC's VHF radiotelephone. The keyboard is solid and responsive, which allows for precise operation. The keys are also backlit, making it easy to operate in low-light settings on the bridge.



### Simple operation

The compact design of the JSS-2150 incorporates an intuitive interface, providing enhanced ergonomics and user friendliness. The logic of the push buttons and JOG dial operation and excellent on-screen menus will greatly shorten most users' learning period.

### JRC StarNetwork™

JRC has been providing sales and support of products since 1915. Today, JRC offers comprehensive assistance through its organisation, in partnership with a worldwide StarNetwork™ of over 270 fully trained and qualified partners and agents, assisting you 24 hours a day, 7 days a week and 365 days a year.



# MF/HF radio equipment – system ~ exibility

## Connect a remote control

Getting a second operation panel onboard is easy. Connect the controller to the transceiver and position the controller at a secondary location on the ship. The second MF/HF station is fully operable and you can transfer saved channel data to optimise your operation.

## Flexible interfacing

Besides connecting a printer and GPS, you can connect the MF/HF to the Remote Maintenance System (RMS<sup>1</sup>), a system that transmits a variety of information via satellite to shore, to remotely perform maintenance and management checks – significantly reducing down time and service miscarriage by failure analysis.

## Self-diagnosis

With JRC's MF/HF radio equipment you can perform self-diagnosis checks on the controller and transceiver, allowing for easy maintenance and more reliability. The results are directly shown on the screen, you can save as a log (up to 10 possible) or print the results (with optional printer).



## Black box configured

The JSS-2150 is black box configured and allows for a flexible installation approach in confined space. Panel, desktop or overhead mounting is possible with this significantly in size reduced MF/HF.

<sup>1</sup> JRC (S-) VDR and Fleet 77, FB250 or FB500 must be installed onboard in order to take advantage of JRC's RMS

## What's standard in the box?

1. Controller<sup>2</sup>
2. Handset<sup>3</sup>
3. Transceiver
4. Antenna tuner
5. Cables
6. Manual

<sup>2</sup> excluding bracket

<sup>3</sup> including cradle

### Which cables?

|                              |     |
|------------------------------|-----|
| Controller to transceiver    | 5 m |
| Antenna tuner to transceiver | 5 m |

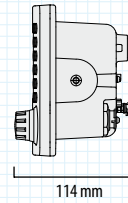
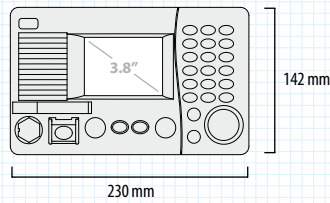




# MF/HF radio equipment – dimensions and weights

## Dimension drawings - Controller

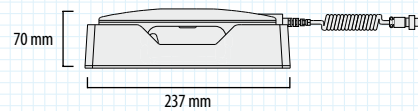
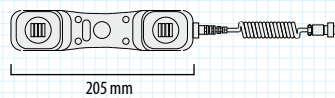
**NCM-2150** Mass 1,3 kg



cutout for panel mount height 122 mm, width 220 mm, depth 180 mm

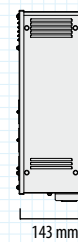
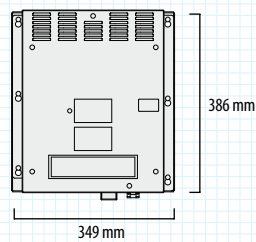
## Dimension drawings - Handset

**NQW-261** Mass 0,5 kg



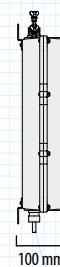
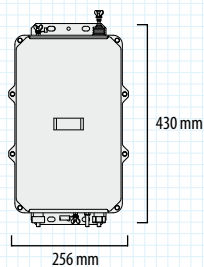
## Dimension drawings - Transceiver

**NTD-2150** Mass 13 kg



## Dimension drawings - Antenna tuner

**NFC-2150** Mass 3,3 kg



# MF/HF radio equipment

## – specifications

| Model                                     |   | JSS-2150 |
|---|---|----------|
| IMO compliant                             |   | ✓        |
| General                                   |   |          |
| Display                                   | 3.8-inch, LED backlit, 320 by 240 pixels  |          |
| Communication speed                       | 57.6 kbps   |          |
| Microphone input                          | -54 dBm   |          |
| Rated audio output                        | speaker (8"): 5W, handset (150"): 1 mW or more  |          |
| Frequency transmit                        | 1605.0 to 27500.0 kHz (100 Hz steps)  |          |
| Frequency receive                         | 90.0 to 29999.9 kHz (100 Hz steps)  |          |
| Emission type                             | J3E, F1B, A1A, H3E, H2B, J2D  |          |
| Channels                                  | up to 400 (20 ch x 20 groups)   |          |
| ITU preset channels                       | 831 ch  |          |
| Channel switching time                    | 15 sec  |          |
| Communication method                      | push-to-talk (simplex, semi-duplex)   |          |
| Antenna impedance                         | 50 $\Omega$   |          |
| Interface                                 | IEC61162-1 (GPS, RMS), NMEA0183   |          |
| NMEA version                              | 1.5, 2.0, 2.3   |          |
| NMEA input                                | GGA, GLL, RMC, GNS, ZDA   |          |
| Power supply                              | 21.6V to 31.2V DC   |          |
| Power consumption                         | 150W transmit: 30A, receive: 5A   |          |
| Operating temperature                     | -15 $^{\circ}$ to 55 $^{\circ}$ C (parts exposed to condensation -25 $^{\circ}$ to 55 $^{\circ}$ C) |          |
| Storage temperature                       | -15 $^{\circ}$ to 55 $^{\circ}$ C (parts exposed to condensation -25 $^{\circ}$ to 70 $^{\circ}$ C) |          |
| Operating humidity                        | 0% to 93% non-condensing  |          |
| Protection rate                           | IP22 (controller)   |          |
| Transmitter                               |   |          |
| Antenna output power                      | 1605.0 to 3999.9 kHz: 100Wpep<br>4000.0 to 27500.0 kHz: 150Wpep                                     |          |
| Modulation method                         | low-power stage balanced modulation   |          |
| Occupied bandwidth                        | J3E, J2D, H2B: within 3 kHz, F1B, A1A: within 0.5 kHz   |          |
| Receiver                                  |   |          |
| Receiving system                          | double superheterodyne  |          |
| Intermediate frequency                    | 70.036 MHz, 36 kHz  |          |
| Frequency stability                       | within $\pm 10$ Hz  |          |
| Sensitivity                               | J3E: 2.5 $\mu$ V, F1B: 0.7 $\mu$ V, A1A: 1.4 $\mu$ V  |          |
| Clariyer variable range                   | $\pm 200$ Hz (1 Hz steps)   |          |
| Line output                               | 0 dBm 600 $\Omega$ (balanced)   |          |
| Optional items                            |   |          |
| Power supply (AC/DC)                      | NBD-2150  |          |
| Battery charger                           | NBB-724   |          |
| Controller (max 2 in configuration)       | NCM-2150  |          |
| Mounting bracket for controller (rushing) | MPBC42957   |          |
| Mounting bracket for controller (table)   | MPBX44354   |          |
| Connection box (for second controller)    | NQD-2250  |          |
| Waterproof handset (IP66)                 | NQW-261   |          |
| Printer (wall, rushing mount)             | NKG-91  |          |
| Printer (desktop type)                    | DPU-414, NKG-800  |          |
| Junction box (for antenna tuner)          | NQD-2253  |          |

JRC has several antenna solutions available

All specifications are subject to change without notification.

For further information, contact:



Since 1915

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