# JSS-2150/2250/2500
# MF/HF radio equipment

150W | 250W | 500W




GMDSS RMS

*– available in 150W, 250W and 500W versions, guaranteed enhanced performance and stability*

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

# Features

## Features

The JSS-2150/2250/2500 MF/HF Class A DSC radio equipment features an intuitive user interface and advanced modular design that allows for a flexible installation approach.

Shown with optional bracket




## 6-channel DSC watch-keeping built-in

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

In distress situations, the MF/HF sends an alert once you press the distress button. The integrated DSC watch-keeping receiver monitors distress alarms through continuous scanning of distress frequencies.

## Display settings

The MF/HF 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. An integrated screensaver and the ability to assign a commonly used menu to a user key for direct access, are just a few of the possibilities.

## Distress alerts

The MF/HF 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.

## Digital audio

The MF/HF integrates an advanced digital audio amplifier, which increases the amount of power, making the receiving message loud and clear.




## Connect a remote control

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

# Operation

## Unified design

The display design allows you to carry out all operations simply by using the same unified keyboard layout as found in JRC's VHF radiotelephone. The keypad 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.




## NBDP (telex) option

Complement your MF/HF with the NBDP* kit for telex communication with shore radio stations and with other ships. It includes a10.4-inch messaging unit featuring a color display with a variety of color backgrounds. The LCD gives you a bright picture with excellent color consistency, even when you are viewing the display from the side.




## USB

The USB 2.0 port located on the front panel allows you to connect a mass storage device to save and load messages.

## What is in the NBDP kit?

- Data terminal (NDZ-227)
- Keyboard (NDF-369)
- Printer (NKG-800)
- U-type bracket for display (MPBP31721)
- Signal & power cables for data terminal and printer
- Necessary NBDP software and manual

## Remote Maintenance System (RMS)

JRC has the ability to cost-effectively monitor performance and functionality of all MF/HF models while at sea, significantly reducing downtime and maintenance costs. jrceurope.com/rms

* Narrow Band Direct Printing (NBDP)

# Flexibility

150W
JSS-2150

## Flexible installation

All MF/HF models are minimum configured as standard, consisting of a display+handset, transceiver and antenna tuner. The 150W model can be applied for non-solas vessels, but also configured with necessary options up to GMDSS A4 area. In contrast to the other two models, the 150W version has a smaller transceiver and antenna tuner which allows for a more flexible installation approach in confined spaces.



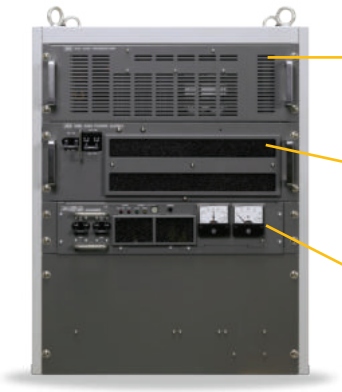
Antenna tuner


Transceiver

When more power output is required, simply select the 250W or 500W version. Additionally, the new 250W and 500W version come with a redesigned antenna tuner, transceiver and power supply designed to fit into a common 19-inch rack.

NEW
250W
JSS-2250

NEW
500W
JSS-2500



**Transceiver** NEW
Built-in Class A DSC and NBDP modem.

**Power supply** NEW
Identical circuit breaker for AC and DC input.

**Battery charger***
Alarm notification function included.




**Antenna tuner** NEW
Outside mounting available as standard.
Built-in antenna grounding circuit.
Same mounting dimensions as preceding model (JSS-296/596).

* battery charger can be used for all models

## Self diagnosis

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

## In the box

- Display+Handset
- Transceiver
- Antenna tuner
- Display to transceiver cable (5 m)
- Power supply (250W/500W only)
- Manual

## Options

| | |
|---|---|
| • Power supply | NBD-2150 (150W) |
| • Battery charger | NBB-724/714 |
| • Display | NCM-2150 (max 2) |
| • Display cable | 7ZCJD0343 (5 m) |
| • Connection box | NQD-2250 (for 2nd display) |
| • Mounting bracket | MPBC42957 (flush) |
| • Mounting bracket | MPBX44354 (table) |
| • Handset | NQW-261 (IP66) |
| • NBDP kit | 7ZZJD0089 (contents see left) |
| • Antenna | NAW-208S (10 m) TX |
| • Whip antenna* | NAW-60 (6 m) RX and/or WKR |
| • Joint box | JQD-69C (for RX & WKR) |
| • Junction box | NQD-2253 (for antenna tuner) |
| • Printer (flush) | NKG-91 |
| • Printer (table) | NKG-800/DPU-414 |
| • DMC | NCH-321A |

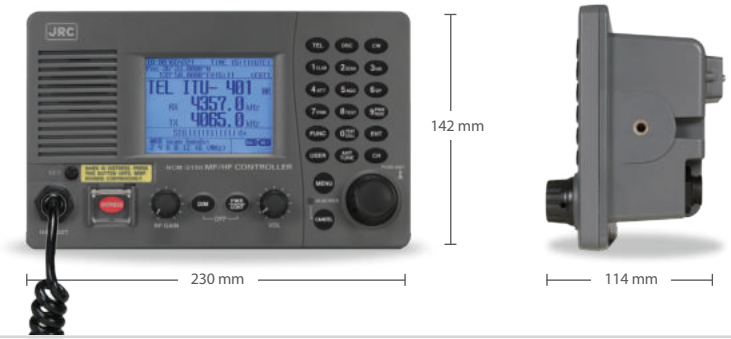
* Flag/class may require two RX antennas to separate RX from WKR.

# Weight and dimensions




## Display/Handset

NCM-2150/NQW-261 Weight 1,3/0,5 kg

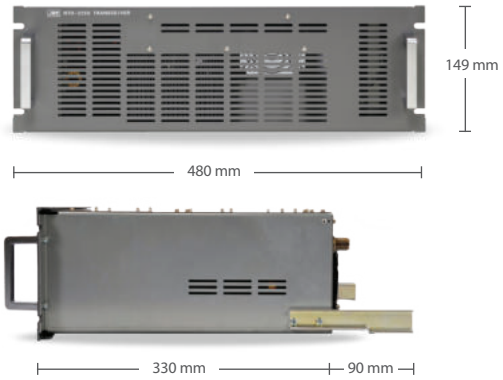



## Transceiver

NTD-2150 Weight 13 kg




NTD-2250/2500 Weight 15/17 kg NEW

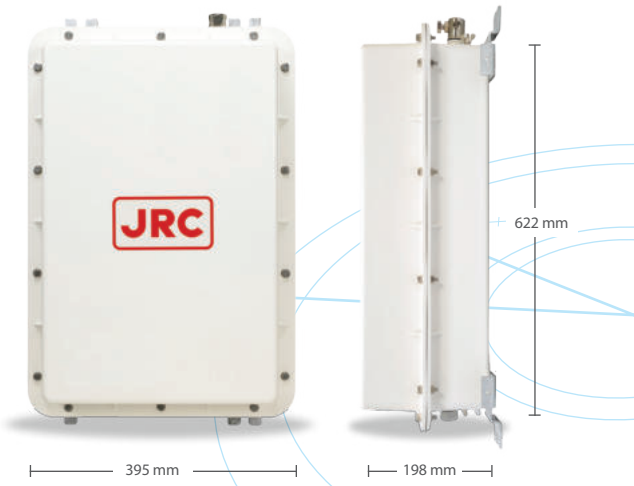



## Antenna tuner

NFC-2150 Weight 3,3 kg




NFC-2250/2500 Weight 10/10 kg NEW



# Specifications

| | JSS-2150 | JSS-2250 | JSS-2500 |
|---|---|---|---|
| IMO type approved | ✓ | ✓ | ✓ |
| Output power | 150W | 250W NEW | 500W NEW |
| Regulations | IMO A.806 (19), A.694 (17), MSC68 (68), MSC/Circ.862, IEC 60945 Ed.4 2002-08 | | |
| Transmission frequency | 1605.0 to 27500.0 kHz (100 Hz steps) | | |
| Reception frequency | 90 to 29999.9 kHz (100 Hz steps) | | |
| Frequency stability | Within ± 10 Hz | | |
| Watch-keeping frequencies | 2187.5 kHz, 4207.5 kHz, 6312 kHz, 8414.5 kHz, 12577 kHz, 16804.5 kHz | | |
| Type of emission | TEL (J3E), DSC, Telex (F1B), CW (A1A), Data (H2B, J2D), AM receiver (H3E) | | |
| User programmable channel | Up to 400 (20 channels x 20 groups) | | |
| ITU preset channel | 1722 ch | | |
| Channel switching time | 15 sec or less | | |
| Communication method | Push to talk (simplex, semi-duplex) | | |
| Antenna impedance | 50Ω | | |
| Reception attenuation (ATT) | 4 steps: 6dB, 12db, 18db, off | | |
| Display | 3.8-inch LED backlit (320 by 240 pixels) | | |
| Communication speed | 57.6 kbps | | |
| Microphone input | -54 dBm | | |
| Audio output | Loud speaker: 5W (8Ω), handset phone: 1mW or more (150Ω) | | |
| Interface | IEC61162-1 (GPS/AME/RMS) | | |
| Compass safety distance | 1.9 m | | |
| Receiving system | Double superheterodyne | | |
| Sensitivity (SINAD 20dB) | J3E: ≤2.5μV, F1B: ≤0.7μV, A1A: ≤1.4μV | | |
| RMS interface | Built-in | | |
| Transmitter output 1.6-4 MHz<br>Transmitter output 4-27.5 MHz | DC: 100Wpx<br>DC: 150Wpx | DC:100Wpx, AC: 200Wpx<br>DC:150Wpx, AC: 250Wpx | DC:100Wpx, AC: 400Wpx<br>DC:150Wpx, AC: 500Wpx |
| Power | 21.6-31.2V DC (optional power supply 90-132V AC, 180-264V AC) | | |
| Consumption | DC: TX ≤30A, RX ≤5A | DC: TX ≤40A, RX ≤7A<br>AC: TX ≤2.0kVA, RX ≤0.5kVA | DC: TX ≤40A, RX ≤7A<br>AC: TX ≤3.0kVA, RX ≤0.5kVA |
| Power saving | Relays are turned off when in sleep mode | | |
| Ambient conditions | Operating temperature: -15° to 55°C (display), -25° to 55°C (antenna tuner)<br>Storage temperature: -15° to 55°C (display), -25° to 70°C (antenna tuner)<br>IP protection rate: IP22 (display), IP66 (handset)<br>Relative humidity: 0% to 93% non-condensing | | |

## JRC offices around the world

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## Authorized reseller

contents are subject to change without notice

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