

# JHS-770S/JHS-780D VHF radiotelephone



*– a first class VHF with an advanced modular design that allows for maximum installation flexibility*

**3.8–inch high visibility display**

**Direct call by AIS™**

**Intercom and loudhailer function**

**120 seconds digital recording**

**Easy operation with JOG dial**

# VHF radiotelephone

## – performance features

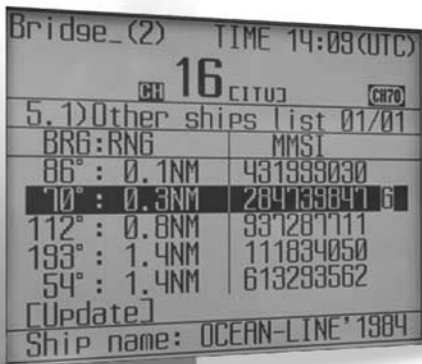
### Unique features

- The new JHS-770S/JHS-780D Class A VHF radiotelephone is available as semi-duplex and full-duplex, incorporating an advanced modular design that allows for maximum installation flexibility.

### Direct call by AIS™

When connecting your AIS to the new VHF radiotelephone, new possibilities become available. This innovative feature, unique to JRC, allows you with one push of the button, to quickly navigate through a list of targets in your surrounding area.

Bearing, range and MMSI information of target vessels are sorted from the shortest range upwards. You can now easily select the vessel you wish to get in contact with, and send a DSC message immediately.



The image shows a screenshot of a VHF radiotelephone's LCD display. The display shows the following information:

Bridge_(2) TIME 14:09(UTC)	
CH 16	CITUJ [CH70]
5.1) Other ships list 01/01	
BRG:RNG	MMSI
86° : 0.1NM	431999030
70° : 0.3NM	284739847 6
112° : 0.8NM	337287111
193° : 1.4NM	111834050
54° : 1.4NM	613293562
[Update]	
Ship name: OCEAN-LINE'1984	

### Intercom and loudhailer

The VHF radiotelephone has intercom functionality for easy communication with multiple VHF controllers onboard. To always be in full control and on top of communication with deck or dock hands, a loudhailer function is built-in. An optional external speaker with amplifier increases talk power, making your messaging loud and clear, thereby adding to the safety of the vessel.

### Clear display

Improved visibility is realised by the integrated 3.8-inch high visibility LCD display with excellent sunlight viewability. The main data is displayed in large characters for easy reading.

### 120 seconds digital recording

JRC has included a recording function for the last 120 seconds of open squelch (voice). In situations where loud engines or other background noises disrupt your reception, this characteristic feature enables you to immediately repeat any unclear messages.

### Extendable up to 5 displays

The VHF configuration allows having up to 5 displays, covering various important sections onboard. In addition, there is a range of possibilities for connecting extra handsets and printers.



# VHF radiotelephone

## – developed for maximum ease of use

### Unified design

The new display design allows you to carry out all operations simply by using the same unified keyboard layout as found in JRC's new 150W MF/HF radio equipment. 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.



- Dual watch menu
- Memory channel
- Turn on/off speaker
- Playback
- Switch TX power high and low
- Direct access to defined menu
- Easy JOG dial operation (rotate and push)
- Volume control

### Simple operation

The compact design of the VHF radiotelephone 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.



# VHF radiotelephone

## – system flexibility

### Flexible interfacing

Besides connecting a printer and GPS, you can connect the VHF radiotelephone 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.

### Wing controller

For wing and or outside applications, JRC has developed an optional, simplified channel selector. This compact weatherproof unit allows basic operation, such as channel and power selection, and has a channel 16 preset.



### Self-diagnosis

With JRC's VHF radiotelephone 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, you can save as a log (up to 10 possible) or print the results (with optional printer).

### Distress alerts



The JHS-770S/JHS-780D 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.

### Easy configuration

The JHS-770S/JHS-780D is developed upon maximum flexibility, having a separate transceiver and display, allowing for a flexible installation approach in confined spaces. Panel, desktop or overhead mounting is possible with the compact VHF controller.

<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. Display<sup>2</sup>
2. Handset with cradle
3. Transceiver
4. Cable
5. Manual

#### Which cable?

Display to transceiver 5 m

<sup>2</sup> excluding bracket

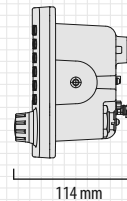
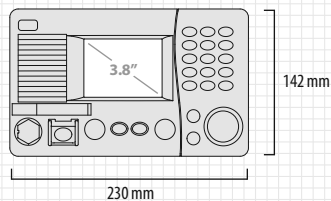


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# VHF radiotelephone – dimensions and weights

## Dimension drawings - Display

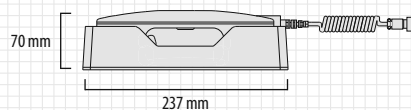
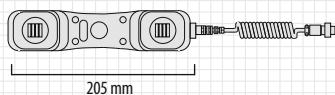
**NCM-1770** Weight 2,4 kg



**cutout for panel mount** height 112 mm, width 220 mm, depth 180 mm

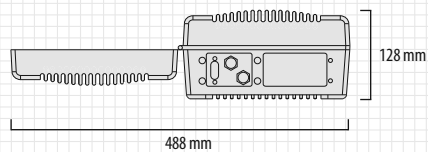
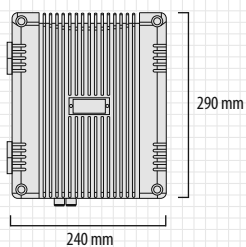
## Dimension drawings - Handset

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



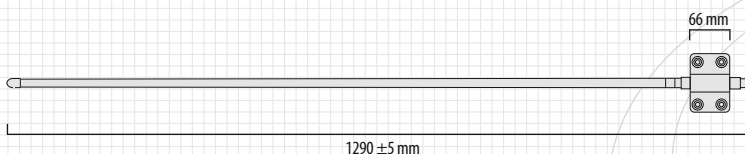
## Dimension drawings - Transceiver

**NTE-770S** Weight 6 kg, **NTE-780D** Weight 7 kg



## Dimension drawings - Antenna

**7ABJD0004** Weight 0,3 kg



# VHF radiotelephone

## – specifications

Model	JHS-770S	JHS-780D
GMDSS compliance	√	√
<b>General</b>		
Display	3.8-inch, LED backlit, 320 by 240 pixels	
Communication mode	simplex, semi-duplex	simplex, duplex
Frequency range	155.00 to 163.50 MHz	
Frequency transmit	simplex, semi-duplex 155.00 to 163.50 MHz, duplex 156.00 to 157.45 MHz	
Frequency receive	simplex, semi-duplex 155.00 to 163.50 MHz, duplex 160.60 to 162.05 MHz	
Output power	25W, 1W	
Modulation type	radiotelephone G3E/F3E, DSC/ATIS G2B/F2B	
Channel spacing	25 kHz	
Frequency accuracy	within $\pm 10 \times 10^{-6}$	
Antenna impedance	50Ω unbalanced	
DSC CH70 receiver	built-in	
DSC CH70 frequency	156.525 MHz	
DSC received message log	20 distress messages, transmit 20 and receive 20 non-distress message	
Power supply	21.6V to 31.2V DC	
Power consumption	25W transmit: $\leq 8A$ , receive: $\leq 5A$	
Temperature	-15° to 55°C	
Operating humidity	0% to 93% non-condensing	
Protection rate	IP22 (display)	
<b>Channel capacity</b>		
ITU/USA/Canada	up to 57 ch	
Inland waterway	up to 57 ch	
Private	up to 200 ch (steps 25 kHz, 12.5 kHz, 10 kHz)	
Weather	up to 10 ch	
Memory	up to 10 ch	
<b>Inputs</b>		
IEC-61162-1	GPS	
IEC-61162-2	AIS	
<b>Outputs</b>		
IEC-61162-1	VDR, S-VDR	
Audio	600Ω 0 dB unbalanced (to VDR, S-VDR and ext. loudspeaker)	
RS232C	ext. printer NKG-91, DPU-414	
<b>Optional items</b>		
Power supply (AC)	NBD-865	
Remote controller	NCM-1770	
Channel selector	NCM-2000	
Junction box (controller)	NQD-2770	
Console mounting (controller)	MPBC39314	
Bracket (controller)	MPBX41872	
Handset (including cradle)	NQW-261	
Connection box (handset)	NQE-1846	
Waterproof connection box (handset)	NQE-1847	
Printer (table mount)	DPU-414	
Printer (flush mount)	NKG-91	
External speaker (wall mount)	NVS-423	
External speaker (flush mount)	NVS-423A	
Extension board (multiple controllers)	CQD-7701	

All specifications are subject to change without notification.

For further information please contact:



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