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

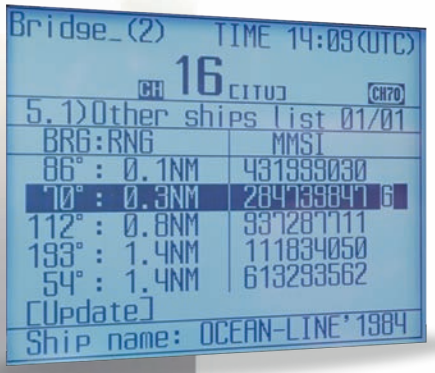
JRC Japan Radio Co., Ltd.

since 1915

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.

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.

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.

JRC one-call™

One number to call
With JRC you can go anywhere and if you need our support, simply call us at +81 3 3492 9201, anytime.

VHF radiotelephone – system flexibility

Flexible interfacing

Besides connecting a printer and GPS, you can connect the VHF radiotelephone to the Remote Maintenance System (RMS[1]), 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.

[1] 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[2]
2. Handset wit cradle
3. Transceiver
4. Cable
5. Manual

Which cable?

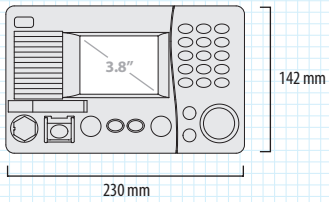
Display to transceiver	5 m

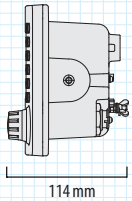
[2] excluding bracket

VHF radiotelephone – dimensions and weights

Dimension drawings - Display

NCM-1770 Weight 2,4 kg

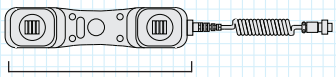


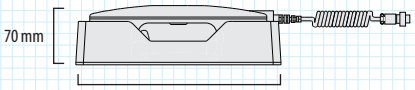


cutout for panel mount height 122 mm, width 220 mm, depth 180 mm

Dimension drawings - Handset

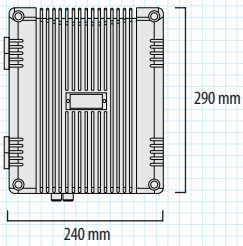
NQW-261 Weight 0,5 kg

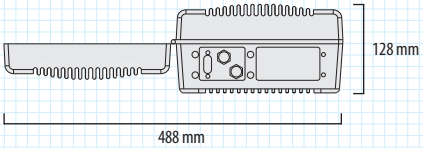




Dimension drawings - Transceiver

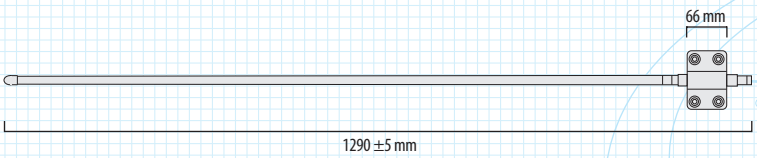
NTE-770S Weight 6 kg, **NTE-780D** Weight 7 kg





Dimension drawings - Antenna

7ABJD0004 Weight 0,3 kg



VHF radiotelephone – specifications

Model		JHS-770S	JHS-780D
GMDSS compliance		√	√
General			
	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: ≤8A, receive: ≤5A	
	Temperature	-15° to 55°C	
	Operating humidity	0% to 93% non-condensing	
	Protection rate	IP22 (display)	
Channel capacity			
	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	
Inputs			
	IEC-61162-1	GPS	
	IEC-61162-2	AIS	
Outputs			
	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	
Optional items			
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:

JRC Japan Radio Co., Ltd.

JRC
Cessnalaan 40-42
1119 NL, Schiphol-Rijk, The Netherlands
T +31 20 6 580 750
F +31 20 6 580 755
E sales@jrceurope.com
W www.jrceurope.com