JUE-87
Inmarsat C



– the JUE-87 is the latest all-new two-way Inmarsat C global data communication solution

Compact all-in-one Internally Mounted Equipment with 10.4 inch display

Newly designed Externally Mounted Equipment with high performance RF filter

Single coax installation

Long Range Identification and Tracking (LRIT) as standard

JRC Remote Maintenance System (RMS) via LAN available

Optional Ship Security Alert System (SSAS)

USB mass storage device is available for messages exchange

JRC Japan Radio Co., Ltd.

JUE-87
– features

Features

The JUE-87 is a highly reliable mobile satellite data communication system, having the ability to handle commercial, operational and personal messages just as easily as distress and safety communications.

About the Inmarsat C system

JRC JUE-87 Inmarsat C is a digital satellite communication system whereby data can be encoded into digital format, whether text, numeric data from instruments or other information in digital format can be sent and received over the system. A simple user interface allows sending and receiving messages.



New IME with display

All in one IME New

The new Internally Mounted Equipment (IME) with display features a high brightness color LCD with an extra wide viewing angle.

Data terminal unit is integrated into the Inmarsat C IME allowing for a straightforward installation approach and is ready for our Remote Maintenance System (RMS).

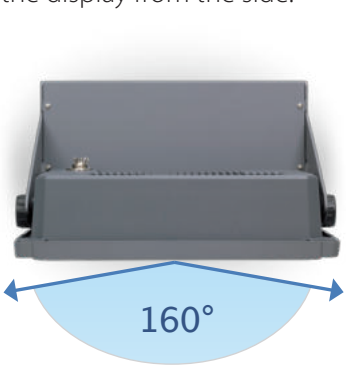
USB

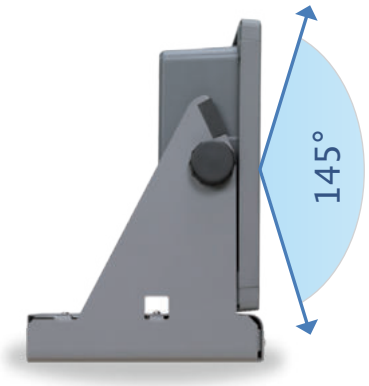
The USB 2.0 port located on the front panel allows you to connect a mass storage device to save and load messages.



The display

Our new IME with 10.4 inch display features a color display with a variety of coloring menus. Factory default color is Ocean Day. The LCD gives you a bright picture with excellent color consistency, even when you're viewing the display from the side.





JUE-87
– flexibility

New Externally Mounted Equipment New

A completely new design of Externally Mounted Equipment (EME), compliant to RoHS, offering a new level of accuracy with a high performance Radio Frequency (RF) filter built in. It has the same cable management philosophy resembling all other Inmarsat products, requiring only a single coax cable between EME and IME.



New high performance RF filter

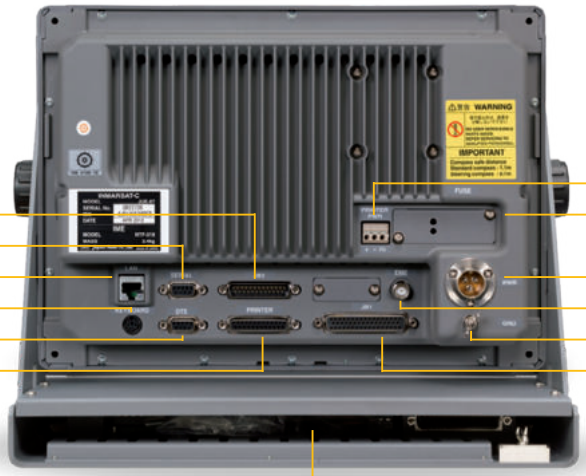
Unified mounting adapter

Single coax installation

Interfacing

The JUE-87 offers all the interfacing you need with junction box 1 (JB1) integrated in the bracket. In case of flush mounting, the bracket and junction box can be easily separated from the IME.

IME



Junction box 2 (JB2)
Serial (e.g. PC)
LAN New
Keyboard
Data terminal equipment
Printer

Power for printer
Fuse/voltage selector
External power supply
EME
Ground
Junction box 1 (JB1)

JB1(standard)

1 External buzzer
2 Security buttons
2 Remote distress buttons
1 Distress message controller
1 GPS input (NMEA)
1 Alarm output (dry contact)
1 Alarm output (NMEA)
1 Alarm/AIS input (NMEA) — Alarm ack from INS or AIS input (for Russia)

JB2 (option)



2 external buzzers
2 Security buttons

New accessories New

Along with our introduction of the new JUE-87, we introduce new accessories that compliment our unified design approach.



External buzzer



Distress button



Security button



New power supply New

JRC is introducing a new external power supply, half the size of the power supply found in the previous generation JUE-85 including a 65% weight reduction.

munication system

JRC Japan Radio Co., Ltd.

JUE-87
– operation

Enhanced Group Calling (ECG)

JRC total Inmarsat C solution incorporates the capability known as Enhanced Group Calling (EGC), which enables authorized information providers to broadcast international safety and commercial service messages to selected groups of ships. EGC is available as standard on the JUE-87 terminal.

EGC SafetyNET

An international safety service, which broadcasts maritime safety information, such as meteorological and hydrographic messages to all ships in certain geographical areas.

EGC FleetNET

An international commercial subscription service, allowing shipping companies and government bodies to broadcast messages to selected groups of vessels.

JCmail

JCmail is a freeware PC application developed by JRC. It enables you to send and receive e-mails and receive EGC messages very easily on the JUE-87.

Distress alert

Your vessels ID, date/time and the present position, course and speed is acquired manually or automatically from the integrated GPS receiver, or the vessel's navigational interface, allowing you to send a distress alert simply by pressing and holding the dedicated built-in distress button, either on the IME or a separate unit.



LRIT as standard

The JUE-87 Inmarsat C model comes standard with Long Range Identification and Tracking (LRIT), an IMO required global monitoring system of the ship's movement. The purpose of LRIT is to increase maritime domain awareness and to improve maritime security.

SSAS add-on kit

The Ship Security Alerting System (SSAS) is a system that contributes to the IMO's efforts to strengthen maritime security and suppress acts of terrorism and piracy against shipping. In case of attempted piracy or terrorism, the vessel's SSAS function can be activated, and appropriate law-enforcement or military forces can be alerted if necessary.

JUE-87 Inmarsat C – maintenance

Self diagnosis

JRC JUE-87 Inmarsat C Mobile Earth Station(MES) incorporates various self-diagnostic programs to facilitate maintenance and troubleshooting, reporting any possible problems it might suffer. The results are displayed on the display of IME.
These functions allow for easy maintenance and more reliability. In addition, automatic testing for performance verification and commissioning via the satellite channel is also available.

Remote Maintenance System (RMS) New

JRC's unique RMS allows remote monitoring of bridge equipment from ashore. Using JRC VDR and INMARSAT FB satellite communication equiipment, JRC can establish a highly secured connection to the vessel and cost-effectively and accurately determine the operating status of the JRC equipment while at sea.
JRC's RMS just got better with the addition of the new JUE-87 which allows connected satellite communication equipment's, such as JUE-251 & JUE-501, status to be polled from the shore.

JRC gloval service network(Star Network)

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™

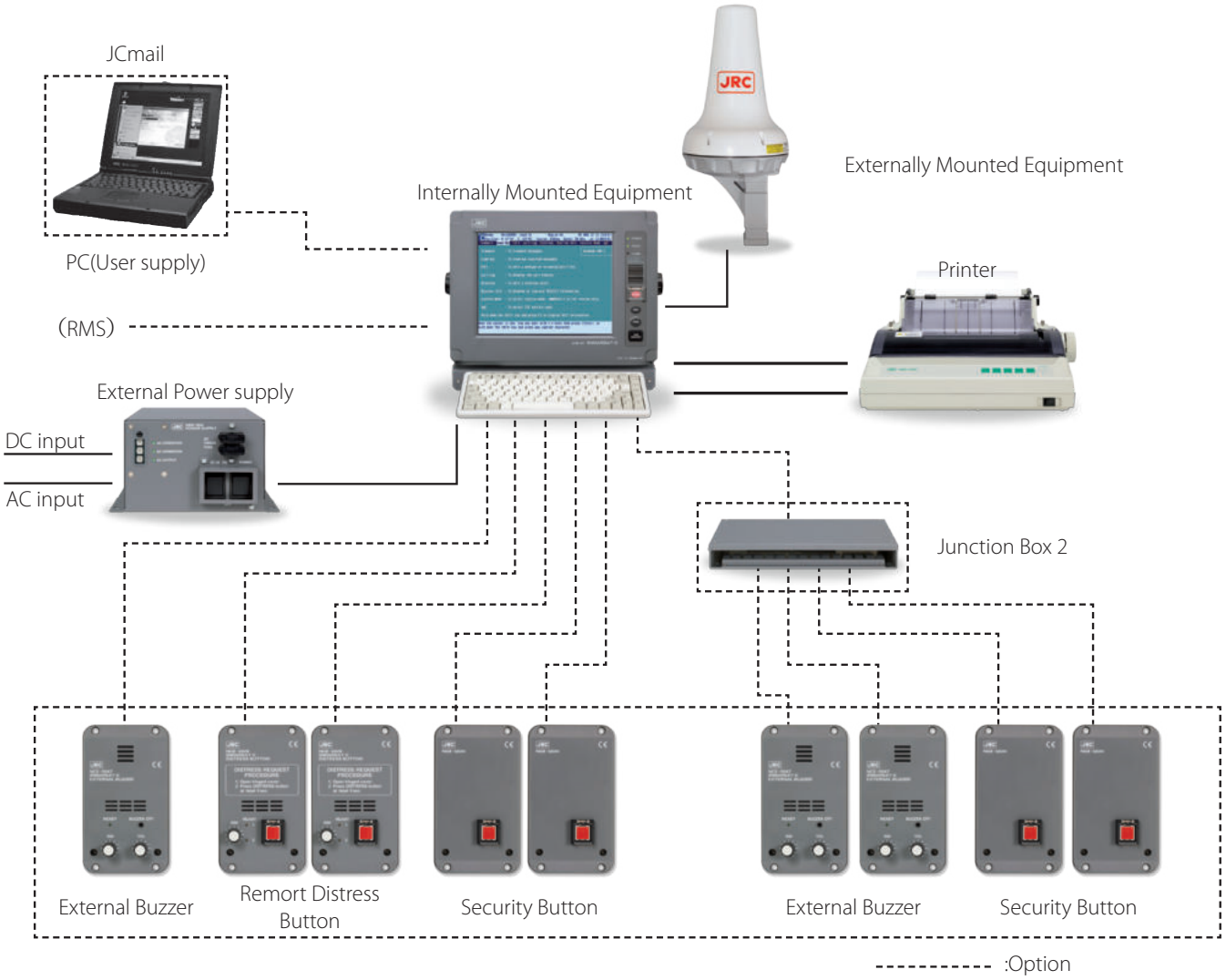
One number to call
With JRC you can go anywhere and if you need our support, simply call us at +81 3 3492 9201, anytime.



JRC Japan Radio Co., Ltd.

JUE-87 Inmarsat C – configuration

System diagram



What's standard?

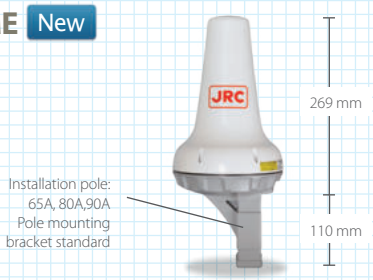
- IME (+JB1)
- EME
- Printer (+paper)
- External Power supply
- Cables
  - Signal
    - EME to IME (30m)
    - IME to printer (2m)
  - Power
    - Power supply to IME (2.3m)
    - IME to printer (2m)
- Installation materials
- Spare parts
- Manuals

What's optional?

Remote distress button	NQE-3225
External buzzer	NCE-5547
Security button	NQE-3224
Junction box 2 (JB2)	NQE-3223
Data terminal Equipment	NDZ-227
Keyboard	NDF-369

JUE-87
– dimensions

EME New



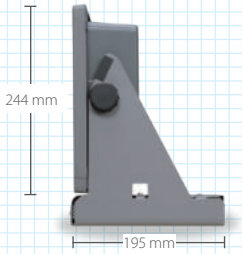
NAF-253GM Mass 2.4kg

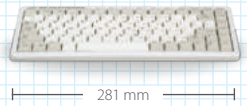


IME New

NTF-318 Mass 7.1kg, includes:
Messaging unit: 3.4kg
Junction box 1: 3.3kg
Keyboard: 0.4kg



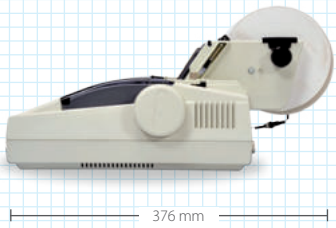




Printer

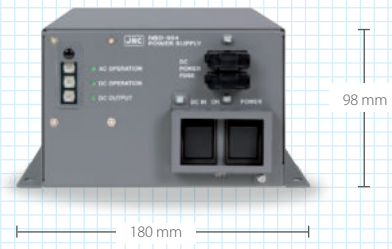
NKG-800 Mass 3.7kg

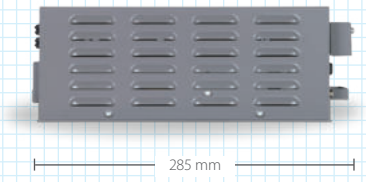




External power supply New

NBD-904 Mass 2.6kg





JUE-87
– specifications

Model	JUE-87
Inmarsat type approved	✓ **(Class 2)**
RoHS	✓
Display	10.4 inch color LCD, 640x480 pixels 450cd/m^2
Frequency	TX : 1626.5 to 1646.5MHz RX : 1537.0 to 1544.2MHz
Channel spacing	5KHz
E.I.R.P.	14±2dBW (at 5° angle)
G/T	-23.0dB/K min
Modulation	TX/RX : 1200 symbols/sec BPSK
Data rate	TX/RX : 600bps
Interface	External Buzzer : 3ports (JB1x1, JB2x2) Remote distress button : 2ports (JB1x2) Security button : 4ports (JB1x2, JB2x2) GPS input (NMEA) :1port (JB1) Alarm output (dry contact) : 1port (JB1) New Alarm output (NMEA) : 1port (JB1) New Alarm / AIS input (NMEA) : 1port (JB1) New LAN port (RJ-45) : 1port (IME) DTE port (serial) : 1port (IME) Keyboard : 1port (IME) Printer : 1port (IME) Serial : 1port (IME) Distress message controller : 1port (JB1)
Ambient condition	Operating: EME -35 to +55°C, IME -15 to +55°C Storage: EME/IME -40 to +70°C Relative humidity: 0 to 95% non-condensing Icing: up to 25mm (EME) Precipitation: up to 100mm/hour (EME) Wind: up to 100knots (EME)
Internally Mounted Equipment (IME)	
Model	NTF-318
Power	DC 24V (19.2 to 31.2V)
Consumption	Transmit: 100W, Standby: 15W
Externally Mounted Equipment (EME)	
Model	NAF-253GM (Unified pole mounting bracket)
Antenna	Type: helical, Pattern: hemisphere, Polarization: right-hand circular
Printer	
Model	NKG-800
Line interface	Parallel
Power	DC 24V (+19.2 to 31.2V)
Consumption	Approx. 35W
External power supply	
Model	NBD-904
Line Voltage	AC100 to 230V, DC24V
Line voltage selection	AC90 to 264V, DC19.2 to 31.2V
Output	DC24V 6.5A continuous
Option	
External buzzer	NCE-5547 (Max. 3units)
Remote distress button	NQE-3225 (Max. 2units)
Data terminal equipment	NDZ-227 (Max. 1unit)
Bracket for data terminal	MPBP31721
Keyboard for data terminal	NDF-369
Security button	NQE-3224 (Max. 4units)
Junction box2	NQE-3223
Wall mount adopter for buzzer/button	7ZZSC0095
Coaxial cable	CFQ-5922A4(40m), CFQ-5922A5(50m)

• Specifications may be subject to change without notice.

For further information, contact:

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