# 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.

#### **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.



**JUE-87** 

New IME with

display

#### All-in-one Internally Mounted Equipment

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.





## Inmarsat C – reliable mobile satellite com

# JUE-87 – flexibility





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.

### 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 equipment, 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.



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.





# JUE-87 Inmarsat C – configuration

#### System diagram



----- :Option

#### What's standard?

- IME
- EME

<ul> <li>Printer (+paper)</li> </ul>	Signal
<ul> <li>External Power supply</li> </ul>	• EME to
• Cables	• IME to p
Installation materials	Power
	<ul> <li>Power s</li> </ul>

- Spare parts
- Manuals

Signal • EME to IME (30m) • IME to printer (2m) Power • Power supply to IME (2.3m) • IME to printer (2m)

#### 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



JRC Japan Radio Co., Ltd.

# JUE-87 – specifications

Model	JUE	-87	
Inmarsat type approved	√ (Class 2)		
RoHS	✓		
Display	10.4 inch color LCD, 64	0x480 pixels 450cd/m <sup>2</sup>	
Frequency	TX : 1626.5 to 1646.5MHz		
riequency	RX : 1537.0 to 1544.2MHz		
Channel spacing	5K	Hz	
E.I.R.P.	14±2dBW (a	at 5º angle)	
G/T	-23.0dB/K min		
Modulation	TX/RX : 1200 symbols/sec BPSK		
Data rate	TX/RX : 600bps		
Interface Ambient condition	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 / AlS input (NMEA) : 1port (JB1) New Alarm / AlS input (NMEA) : 1port (JB1) New Alarm / AlS input (NMEA) : 1port (JB1) New LAN port (RJ-45) : 1port (IME) DTE port (serial) : 1port (IME) Keyboard : 1port (IME) Serial : 1port (IME) Distress message controller : 1port (JB1) Operating: EME -35 to +55°C Storage: EME/IME -40 to +70°C Relative humidity: 0 to 95% non-condensing lcing: up to 25mm (EME)		
	Precipitation: up to 100mm/hour (EME) Wind: up to 100knots (FMF)		
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			
Power			
External power supply	Αμμιυχ. 55₩		
Model	NPD 004		
LineVeltage			
Line voltage selection			
Output			
Option			
External huzzer	NCE-5547	May Supits	
Remote distress button	NOF-3225	Max. Junits	
Data terminal equipment	ND7-227	Max Lunit	
Bracket for data terminal	MPBP31721	- Max func	
Keyboard for data terminal	NDF-369		
Security button	NOE-3224	Max, 4units	
Junction box2	NOE-3223		
Wall mount adopter for buzzer/button	77750	0095	
Coaxial cable	CFQ-5922A4(40m), CFQ-5922A5(50m)		

• Specifications may be subject to change without notice.

For further information, contact:

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