JUE-410F Inmarsat Fleet 77

- Proven antenna design
- Single coax installation
- Wide range of interfaces as standard
- User-friendly operation
- High-speed data services
JUE-410F Fleet 77 – performance features

Unique features
- The JUE-410F is a powerful Inmarsat Fleet 77 satellite communications solution, incorporating advanced technology and flexible interfacing to meet the varied communications and data requirements of the maritime industry.

Powerful and flexible solution
JRC's Fleet 77 provides users at sea with unrivalled choice through the provision of a single, integrated terminal platform, bringing ships closer to the office infrastructure and network. It benefits all those involved in the shipping industry, providing near global maritime coverage, which makes the Fleet 77 a powerful and flexible solution for high data rate requirements.

Voice
The Fleet 77 service offers digital voice communication on a virtually global basis (polar restrictions apply). In addition to the standard 4.8kbps voice service, 64kbps voice can also be achieved between ISDN telephones. Call waiting is also available to notify users of the presence of an incoming voice, fax or data call while conducting an MPDS session. When the call-waiting alert is received, the user will have the choice to accept the incoming call, guaranteeing no call is missed.

Fax
JRC’s JUE-410F provides 64kbps Group-4 fax and 9.6kbps Group-3 fax for vessel-to-shore, shore-to-vessel and vessel-to-vessel applications. The Fleet 77 integrates the latest modern interfacing standards to meet compatibility with standard applications and systems.

Data
Fleet 77 provides fast, quality and reliable data communications, including high-speed remote network access and fast access to IP and FTP services. Inmarsat offers Mobile Packet Data Service, a cost-effective packet-based service that charges only for the amount of data sent and received, not the time spent online. ISDN offers data transfer speed of up to 128kbps, and MPDS offers of up to 64kbps.


**JUE-410F Fleet 77**
– developed for maximum ease of use

**Distress calls**
The JRC Fleet 77 is fully compliant for Global Maritime Distress and Safety System (GMDSs) operation. The terminal includes a prominent red Distress button, with features to prevent accidental activation. This service provides a multi-layered priority system allowing Distress, Urgency and Safety calls.

This works in a hierarchical way,
- **a Distress call** will pre-empt all other communications
- **an Urgency call** will pre-empt both safety and routine calls
- **a Safety call** will pre-empt routine calls

**Flexible interfacing**
JRC’s Fleet 77 incorporates a reliable industry standard interfacing field and is the world’s first Inmarsat Fleet mobile terminal with a built-in LAN interface. Because the Fleet 77 is IP compatible, it supports an extensive range of commercially available off-the-shelf software, as well as specialised user applications.

Also access to the World Wide Web is easy as JRC has integrated a web server in the terminal, allowing users at sea an unrivalled choice through the provision of a single, integrated terminal platform.

**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 and Inmarsat, the perfect fit

JRC has a long heritage in Inmarsat maritime equipment, extending back to the world’s first Marisat terminal (JUE-5A) in 1975, followed by a successful history through the Inmarsat alphabet. The JRC Fleet 77 offers unrivalled flexibility and cost-effective data capabilities, providing users at sea with a single, integrated terminal platform. Together with Inmarsat’s communication service, offering a comprehensive array of features and benefits we are able to meet the requirements of the maritime industry.

- Current coverage map for maritime digital services with planned Inmarsat-4 enhancements

Total system flexibility

The JRC Fleet 77 package has been comprehensively planned and designed to meet all aspects of performance and reliability at sea. The Fleet 77 allows easy cable management as only a single coax cable will be used between antenna and terminal. It is also possible to connect your own peripherals, such as a computer and fax, allowing for the most flexible onboard networking.

What’s standard in the box?

- Antenna
- Main unit
- Telephone set
- Cables
- Spare parts
- Manual (English)

Which cables?

- Main unit to antenna: 50 m
- Main unit to telephone set: 5 m
JUE-410F Fleet 77 – dimensions and weights

Dimension drawings - Antenna

GSC-411A Weight: 80 kg

Dimension drawings - Main unit

GSC-412A Weight: 5 kg

Dimension drawings - Telephone set

NQW-132B Weight: 0.7 kg

For further information please contact:

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# JUE-410F Fleet 77
## - specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>JUE-410F</th>
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<tbody>
<tr>
<td>Inmarsat type approved</td>
<td>✓</td>
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### Frequency
- **Transmit**: 1626.5MHz - 1660.5MHz
- **Receive**: 1525.0MHz - 1559.0MHz

### Communication
- **Voice**: 4.8kbps, 64kbps, 3.1kHz audio
- **Fax**: 9.6kbps (Group 3), 64kbps (Group 4)
- **Data**: ISDN - 64kbps, 128kbps
- **MPDS**: 64kbps

### Antenna
- **Type**: 89cm Ø parabolic reflector with cross dipole feed
- **Polarisation**: right-hand circular (RHCP)
- **Beam width**: 15° at 3dB down
- **Pointing**: automatic step tracking with 3-axis stabilisation
- **Enclosure**: FRP radome

### Primary power
- **Voltage**: AC 100/110/115/220V ±10%
- **Consumption**: 500VA

### Environmental conditions
- **Ambient condition**
  - temperature: antenna -25°C to +55°C
  - temperature: main unit -15°C to +55°C
- **Relative humidity**: up to 95%
- **Icing**: up to 25mm
- **Precipitation**: up to 100mm/hour
- **Wind**: up to 10 knots in operation, up to 120 knots in survival
- **Vibration**: as specified by Inmarsat

### Coverage
- **Azimuth**: 270° with automatic reverse
- **Elevation**: 5° to 90°

### Ship’s motion
- **Roll**: ±30°/sec
- **Pitch**: ±10°/sec
- **Yaw**: ±8°/sec
- **Surge**: ±0.2g
- **Sway**: ±0.2g
- **Heave**: ±0.5g
- **Turning rate**: 6°/sec
- **Headway**: 30 knots

### Tuning
- 5kHz spacing (BPSK-O-QPSK), 40kHz spacing (16QAM)

### E.I.R.P.
- **G/T**: 32dBW +1/-2dB
- **-4dB/K or more**

### Optional items
- **Buzzer box**: NCE-6824A
- **Telephone set**: NQW-132B
- **Telephone joint box**: NQE-3058B
- **Card reader**: NQZ-4968A
- **Card reader interface**: NQZ-6903A
- **Voice distress button**: NQE-3035A

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