

# High performance, high quality communications at sea



## Nera F55 High speed data and global voice

**NERA**  
enabling a wireless future



# Nera F55

## High speed data and global voice communications for vessels of all sizes

### Communicate at sea as you communicate on land

Nera F55 is part of the Nera Fleet family of maritime satellite communications packages. Created to meet the needs of all types of vessels which sail mainly in coastal waters, it marries global voice with the advanced, high speed data communications associated with a modern office on land.

This means that a vessel with Nera F55 can use e-mail and Internet applications and can download or send large data files quickly and easily - even when out of reach of conventional mobile phone or radio networks.

### Keeping in constant touch with vital data

Nera F55 uses the very latest Inmarsat Fleet satellite platform with its unique Mobile Packet Data Service (MPDS) capabilities. This means that the system can be 'always on', keeping you permanently connected to the vital information you want and need when at sea... like port and fleet management instructions, news and weather information, telemedicine and constant e-mail contact with colleagues, friends and family. It can also provide you with a LAN connection to a Virtual Private Network with access to Intranets and internal databases and systems. You can even take part in video conferences.

### Global phone and fax

Flexibility is a key F55 feature. It provides low-cost voice communication and high quality ISDN connections whilst being smaller and lighter with a low power consumption. You can use both the conventional Group 3 fax and digital Group 4 fax with speeds as fast as 3 seconds per page.

### Make informed decisions wherever you are

Thanks to the 'always on' feature of Nera F55 you are receiving information the moment it is available. This gives you the means to make informed decisions instantly - affecting operating efficiency or even vessel safety.

This advantage makes Nera F55 an ideal communications system for a very wide range of medium-size vessels, from coastal fleets and supply ships to large yachts and Coastguard vessels.

### Easy and cost effective to use

Nera F55 is also a highly cost-effective communications package to operate. That is because you only pay for data actually transmitted and received - even though the system is permanently connected online. This also has the advantage of vastly reduced connection times speeding the process of downloading e-mails and other data files.

### Buying from a world leader

Nera has been recognised as the world leader in maritime satellite communications for over 25 years. The company's reputation for technical excellence is also matched by an unrivalled and truly global service network. There are Nera Regional Service Centres staffed by Nera-trained and certified engineers in 32 key ports around the world - on call 24 hours a day, 7 days a week. Additionally, the Nera F55 is backed by a market-leading, 2-year warranty from the date of purchase.

# The cutting edge solution for high-speed data transfer

## Nera F55

This highly specified Nera marine communications system is the perfect choice for customers who want to exploit the benefits of sophisticated data transfer.

The high-speed data capacity of 64 kbps gives the Nera F55 a significant advantage over other systems for vessels operating in coastal waters - from Coastguard vessels and supply ships to coastal merchant fleets and business-oriented yacht owners.

## Quick configuration

Below-deck equipment with the Nera F55 connects easily (plug and play) to telephone, PC and fax terminals. Configuration is fast and simple, using a PC man-to-machine interface.

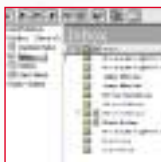
## Unrivalled support - around the clock, around the world

Nera's continuous involvement in marine communications since 1978 has created a powerful company ethos built on the massive importance of product reliability and dedicated service and support. Nera F55 customers will benefit from the company's unique global network of regional service centres with Nera-trained and certified engineers. This service is provided 24 hours a day, 7 days a week in 30 key ports around the world.

## Data/Internet Applications



Worldwide web



E-mail



Data transfers



E-finance

- **Access to fleet management and corporate LAN**  
With the high speed data capacity of Nera F55 you are always in touch with the latest business and fleet management information, port instructions and other vital data. As a result, informed onboard decisions can be made more quickly, accurately and effectively.
- **Access to the worldwide web**  
Internet and e-mail access is continuously online... giving you a world of instant information, including weather and navigational information and sea chart updates. The highly efficient Nera F55 also lets you download and send large data files quickly.
- **Access to office applications**  
As Nera F55 uses universal PC and laptop terminals you can use all the familiar applications and digital attachments just as in a modern land-based office.

## Fax Service



Group 3 and Group 4 fax

- **Access to Group 3 and Group 4 fax**  
Nera F55 provides you with the ability to send and receive faxes.

## Global Telephone Service

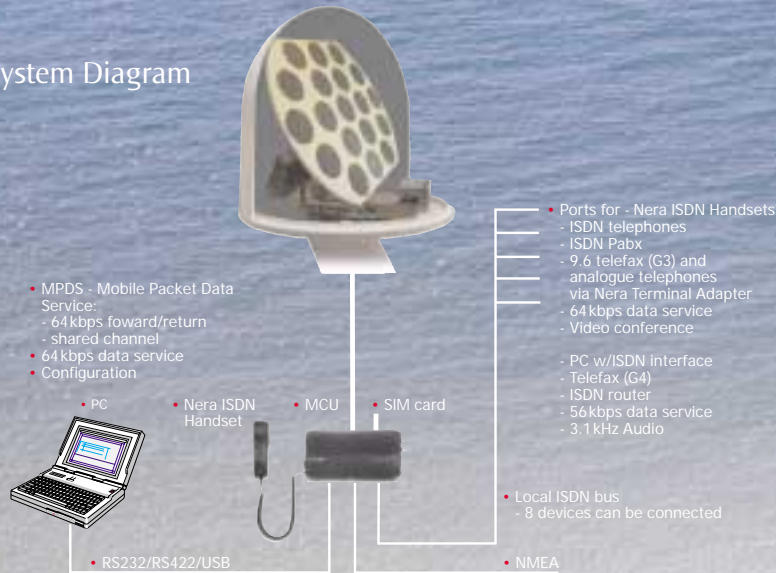


Analogue global voice

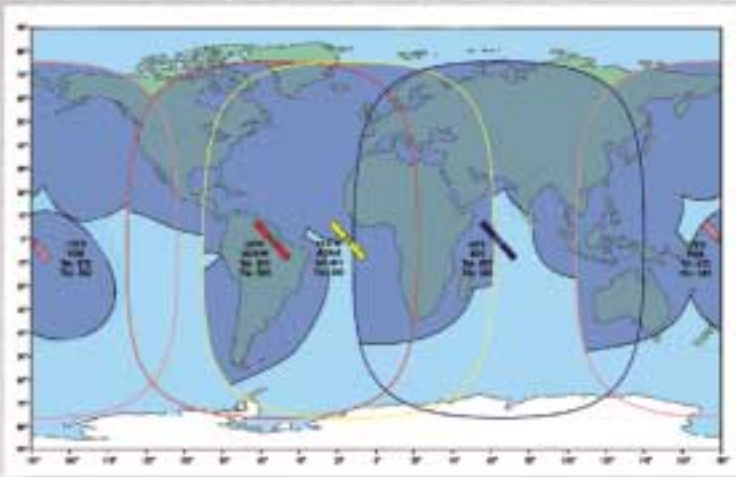
- **Access to global voice**  
With Nera F55 installed you can call anywhere - and be called, wherever you are on the seas. With this genuinely global voice service you have the peace of mind of knowing you are always in touch. This provides you with security in the event of emergency situations.

# Nera F55 In touch with the best technology

## System Diagram



## Worldwide Coverage Map



### KEY

- Pacific Ocean Region
- Atlantic Ocean Region-West
- Atlantic Ocean Region-East
- Indian Ocean Region
- Inmarsat spot beam coverage

## 25 years experience in satellite communications

Although the outstanding benefits of the Nera F55 system may be new to maritime customers, to Nera, satcoms technology has been a way of business life for more than 25 years. This, combined with our heritage in marine communications, makes Nera the natural choice.



## Technical Specification

### Services

#### Global service

Voice 4.8 speech (Mini-M voice)

#### Spot beam service

Voice 4.8 speech/64 kbps high quality

Data 64 kbps data

56 kbps data

Telefax 64 kbps fax G4

9.6 kbps fax G3

MPDS 64 kbps

Shared channel

Audio 3.1 kHz audio

### Functions

Supervision from handset  
 Configuration from PC  
 Traffic log on PC or printer  
 Message indicator  
 Access code  
 Call restrictions  
 Sim card operation  
 Phone book (up to 100 numbers)

### Interfaces

#### Connectors

1 pc DC power connector  
 1 pc N-contact coaxial connector (RF)  
 2 pc RJ-45 ISDN connectors for Telephone/Fax/PC/PABX/Handset/DECT

1 pcs USB port

2 pc RS232

#### Terminals

4 pcs RS422  
 4 pcs ISDN (1 port) for external cables to PABX/DECT/PC/Handset/Telephone.

2 pcs NMEA input

2 pcs spare terminals

#### Other Interfaces

1 pc SIM card reader

4 pcs LEDs

#### Optional equipment

ISDN - Fax adaptor

#### Cabling ADE - BDU

RG 223 25m

RG 214 50m

RG 1/2 140m

S10172B11 170m

### Power

Maximum power consumption

Transmit mode 110 watts

Receive mode 40 watts

18-32 V DC

External 12 V DC (optional)

### Dimensions and weight

Antenna 15kg  
 60 x 63cm (h x d)  
 MCU 3kg  
 Length 31cm x 18cm x 8cm (l x w x h)



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