



Nera WorldSet



User Guide



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CE : 0434

FCC ID : TSF 107020

IC : 6200A - 107020

GMPCS

The Nera WorldSet terminal fully complies with the R&TTE directive.

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General

Optimised for users of Inmarsat's satellite services both on land and at sea, the Nera WorldSet enhances the user experience for GAN services and Fleet services while at the same time providing optimised functionality for the broadband satellite services, BGAN.

Making use of intuitive user interfaces and menus, the Nera WorldSet presents Inmarsat users with the convenience features they are accustomed to from GSM and DECT phones.

Functionality includes address lists, call logs, and read and write SMS text messaging. The Nera WorldSet also provides all the functions of a standard ISDN handset.

Optimised for satellite users

The Nera WorldSet incorporates features that are par-

ticularly useful both in provisional camps on land and in maritime environments, such as the loudspeaker option for handsfree operation. There is also a line out interface to connect to standard headsets, external loudspeakers and recording equipment. Similarly, the microphone output allows the Nera WorldSet to be used with dynamic microphones.

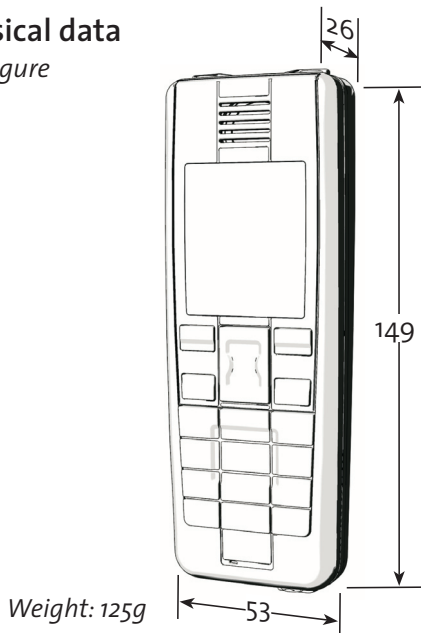
Integrated BGAN functionality

Enabling BGAN users to configure and control the terminal independently of a PC, the Nera WorldSet turns BGAN into a powerful voice service in its own right

Signal strength and battery status can be monitored directly from the handset display. Address lists can be accessed remotely.

Physical data

See figure



Nera WorldSet, dimensions and weight.

Services

Voice: G.711 ISDN voice
 Supplementary: Subset of Q.932
 SMS: TS 23.040 supported for BGAN

Radio News Gathering: Optional support for G.722 for 64 kbps broadcast-quality ISDN voice

Line interfaces

ISDN: I.430, Q.921, Q.931, Euro-ISDN
 Handsfree: Standard 2.5 mm stereo jack, 105 mW @ 16 ohm high-level speaker drive
 Line out interface: 3.5 mm stereo jack. 105 mW @ 16 ohm high-level speaker drive
 Microphone: Standard 3.5 mm mono jack. Dynamic microphone input. 0 – 60 dB gain

Display

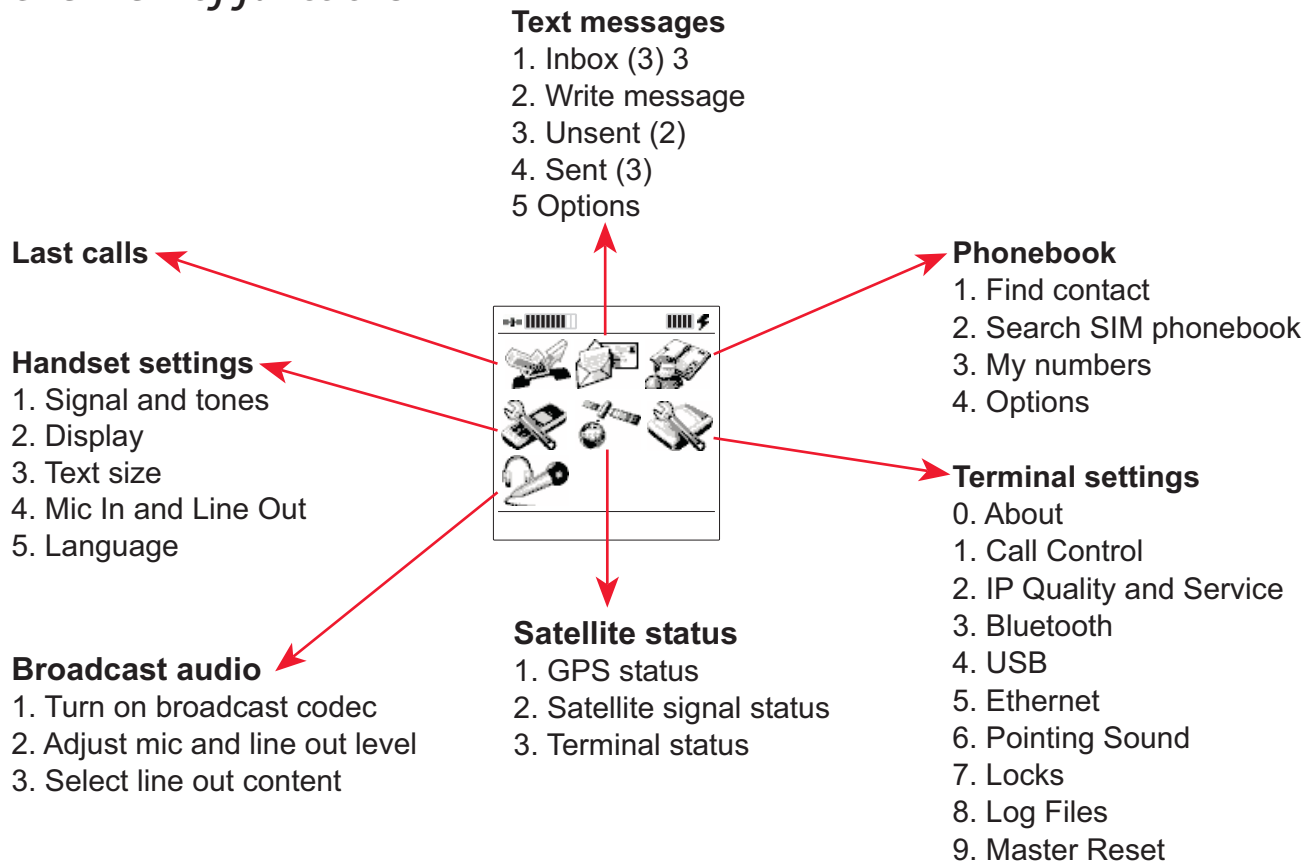
Display type: LCD grey scale
 Pixels: 128 x 128
 Back-lit: Yes

Environmental

Sealing class: IP44
 Operating temperature: -20°C to +55°C



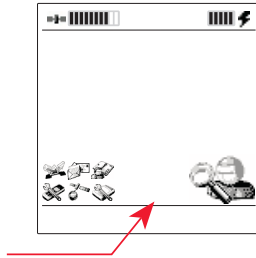
Overview of functions



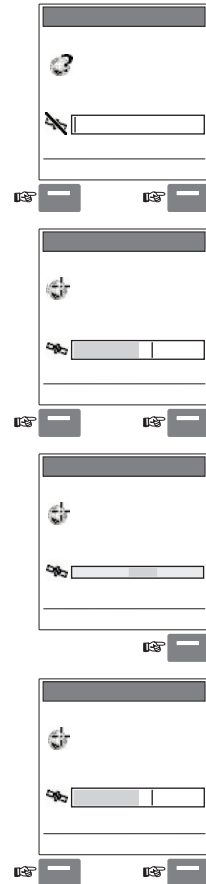


Idle

When idle, the Nera WorldSet displays:



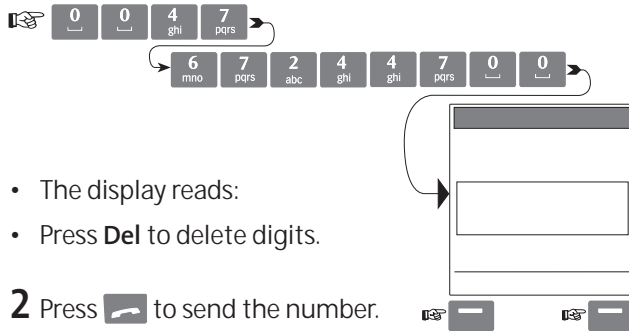
Satellite status





Making a call

1 Dial 00, country code and subscriber number, e.g.:



- The display reads:
- Press **Del** to delete digits.

2 Press to send the number.

Press **Continue** to Save the number or **Send a text message**, see step 4

- Press **Speaker** to toggle the built-in loudspeaker on/off.

Example of audible signals:

- incoming calls
- SMS alert
- dial tone
- key click

- The **Call active** display shows the duration of the call as it progresses.
- Press **Mute** on/off to toggle handsfree microphone/speaker on/off.

- Pressing **Options** provides the following choices:
 - *speaker on*
 - *transfer a call*
 - *add call*

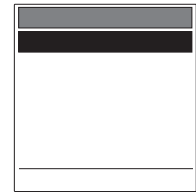
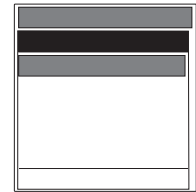
Use the arrow down/up key and **Select** as required.

3 Press to end the call.

The display shows the duration of the call

- Pressing **Ok** allows saving the contact.

- Press **Yes** to enter contact info, see **Phonebook** later in this manual

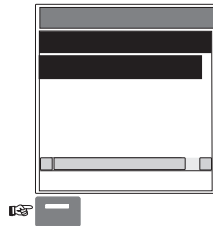




4 Pressing **Continue** when the number has been dialed, (*step 2*), opens the **Dial > Options** window which provides the following choices:

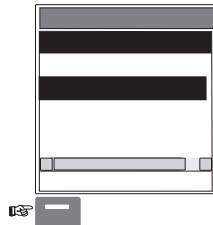
- call the dialed number
- save the number,
see **Phonebook**
- send message,
see **Text message**

Use the arrow down/up key  and **Select** as required.



If choosing to **Call** the number, the **Dial > Choose call type** appears providing the choices:

- **Broadcast quality**
providing 64 kbps high
quality audio*
- **Standard call****



*Applies to Nera WorldCommunicator

**Applies to Nera WorldPro 1000



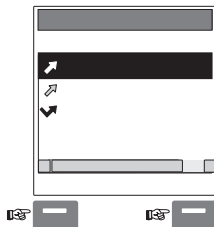
Last call redialing

The memory stores the last 30 outgoing and incoming call numbers. The data are lost when disconnecting the handset or the Nera WorldPro1000 is switched off.

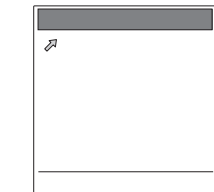
To redial a number:

1 Press to recall the last number dialed:

Use to scroll through the **Last calls** list.



2 Pressing or **Call** sends the chosen contact number:



3 Pressing **Options** lists the functions:

- Save
- Summary
- Delete
- Delete all
- Send message

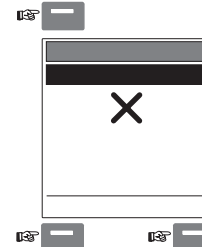
Use to scroll through list.



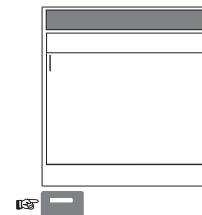
- Press **Save** to store the subscriber as new contact, *see Phonebook.*
- Selecting the **Summary** option shows the data of the calls stored in the memory.



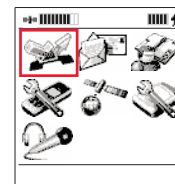
6 If required, press **Delete** to remove a single item from the **Last calls** list, or press **Delete all** to remove all items from the list



7 Selecting **Send message** opens the **New message** display, *see Text messages.*



The Last calls display can also be selected from the main Menu:





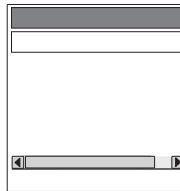
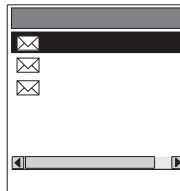
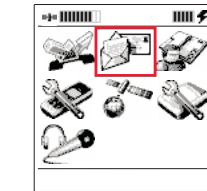
Text message

Text messages may consist of up to 160 characters.

Messages received

1 Open the **Menu** and **Select** the **Text Messages** function.

The display lists the choices:



2 **Selecting Inbox** lists the received messages:

3 Pressing **Read** displays the message content.

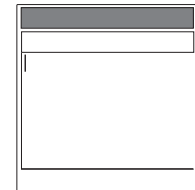
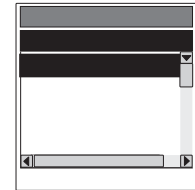
- Pressing **Close** stores the message.
- Pressing **Options** displays sev-

eral choices:

- Reply
- Forward
- Call
- Delete
- Delete all

Example:

- **Selecting Reply** allows entering a message to the sender.



- Pressing **Send** sends the reply:




- Press **OK** to confirm:



Text message cont'd

Sending message

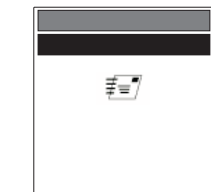
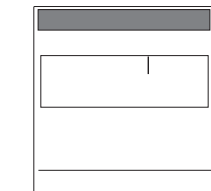
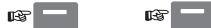
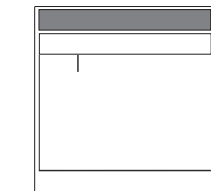
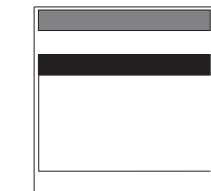
1 Select the **Text Messages** function and scroll down  to **Write message**.

2 Pressing **Select** opens the **New message** entry display.

5 Pressing **Number** opens the **Dial** display which allows the subscriber number to be entered:

Press **Send** when ready:


The message is sent




Other text message options

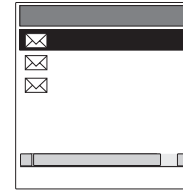
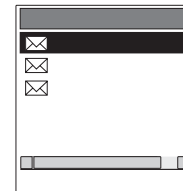
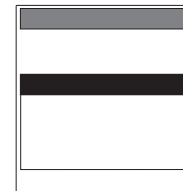
1 Scroll down  to **Unsent**.

2 Pressing **Select** displays the list of messages that are waiting to be sent.

3 Press **Send** to send the highlighted message. Alternatively, scroll down  to select another message in the list.

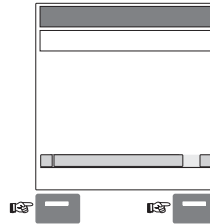
4 Press **Select** to **Delete** the highlighted message or scroll down  and **Select Delete all** the listed unsent messages.

5 Revert to step **1** and scroll down  to **Sent** (**3**). Press **Select** to display the list of sent message, providing the same choices of deletion as for the **Unsent** messages





6 Pressing **Read** displays the message content.



7 Pressing **Options** displays the choices:

- *Forward*
- *Call*
- *Delete*
- *Delete all*



8 Scroll down  and select as required.



9 Revert to step **1** and scroll down  to **SMS Options**. Pressing **Select** displays the Nera WorldSet memory status:



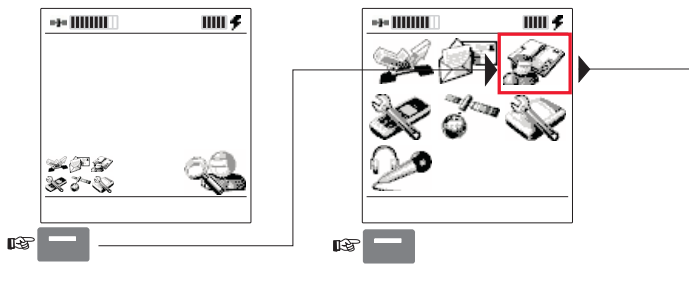
Press **OK** to finish



Phonebook

The entries in the Nera WorldSet phone book may consist of maximum 15 characters and 19 digits.

Typical 6-character/8-digit entries yield a total of 85 phone numbers. The number/name list is stored in the Nera WorldSet.



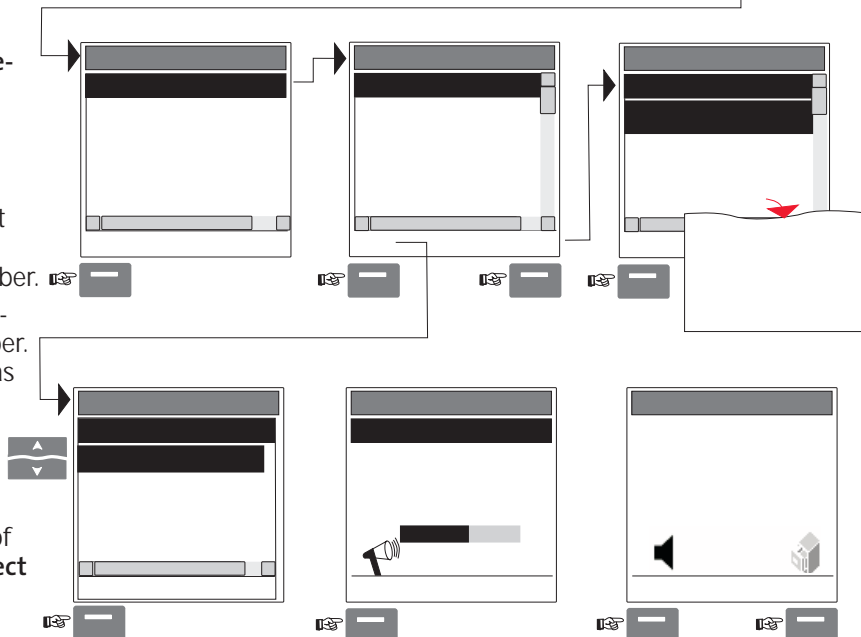
Open the Phonebook:

1 Open the **Menu**. Press **▶** and then **Select** to open the **Phonebook** function.

Finding a Contact

2 Selecting **Find contact** opens the list of names/numbers. Use **▲**/**▼** to scroll through list. Press **▶** to read long number.

Pressing **Call** allows choosing call quality before sending the subscriber number. Select **Speaker on/off** or **Mute on/off** as required during transmission.



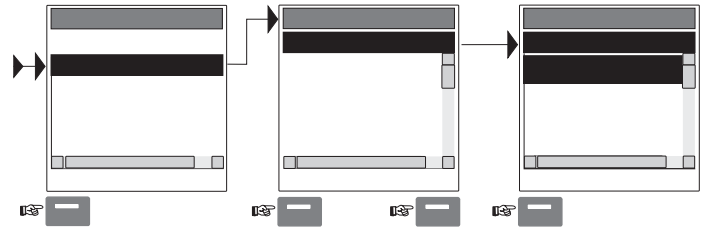
Options

3 Selecting **Options** lists the choices of modifying the phonebook entries. **Select** as required.

Search SIM phonebook

4 From the list of **Phonebook** choices selecting **Search SIM phonebook** lists the contacts stored on the SIM card.

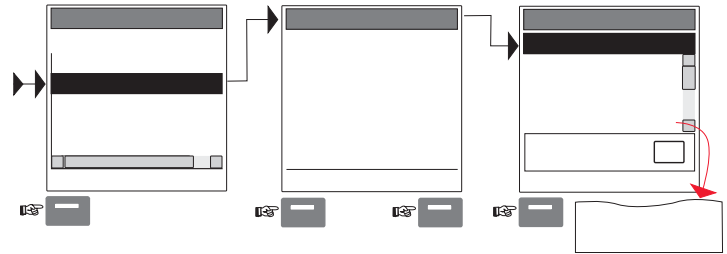
Pressing **Call** sends the subscriber number.
See the previous page.



My numbers

5 From the list of choices, **Select My numbers** list the numbers and the corresponding local handset number.

Pressing **Edit** allows changing the local number.



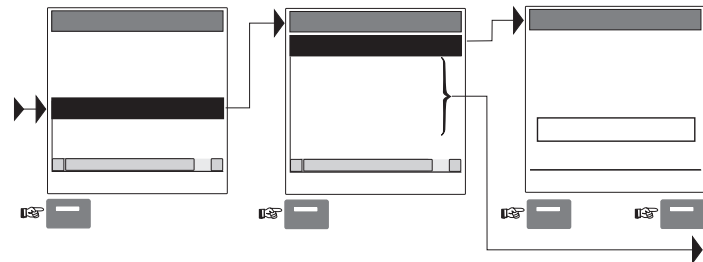
Options

6 From the list of **Phonebook** choices pressing **Options** provides the choices:

- *Memory status*
- *Ask to save*

Selecting **Memory status** displays:

- *number of entries*
- *percentage of storage*





Options cont'd

7 From the list of **Options** choices pressing **Copy contacts** provides the choices:


- *Copy all from handset*
 - *Copy all from terminal*
 - *Copy all from SIM to handset*
 - *Copy all to SIM*
- Selecting **Delete all contacts** erases the handset memory.
 - Selecting **Memory status** provides the following choices:
 - *internal phonebook*
 - *terminal phonebook*
 - *SIM phonebook*
 - Selecting **Ask to save** requests whether or not new entries are to be saved.





Handset settings

1 Open the **Menu** and **Select** the **Handset settings** function. The display lists the functions that may be set.

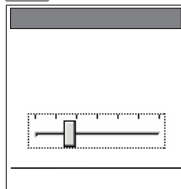
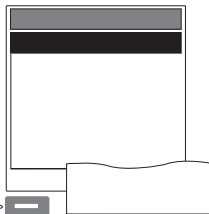
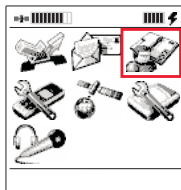
Use  to scroll through choices:

1. *Signal and tones*
2. *Text size*
3. *Backlight*
4. *Display contrast*
5. *Mic and line out*
6. *Time format*

2 Selecting **1. Signal and tones** in the **Handset settings** window provides the following choices:

1. *Ring volume*
2. *Ring tone*
3. *Message signal*
4. *Alarm signal*
5. *Key sound*

3 Selecting **1. Ring volume** in the **Signals and tones** window displays a slide control allowing the level to be adjusted and the setting saved.



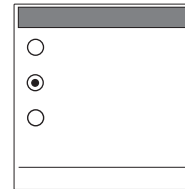
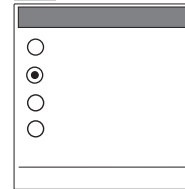
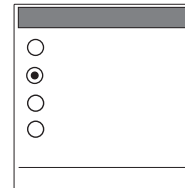
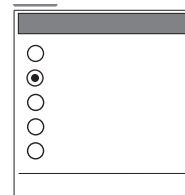
4 Selecting **2. Ring tone** in the **Signals and tones** window allows you to choose among five different melodies to sound when receiving a call.

5 Selecting **3. Message signal** in the **Signals and tones** window allows you to choose among four different melodies to sound when receiving a text message (SMS).

6 Selecting **4. Alarm signal** in the **Signals and tones** window allows you to choose the sound to be heard when an alarm condition occurs.

7 Selecting **5. Key sound** in the **Signals and tones** window allows you to choose the sound heard when pressing a key:

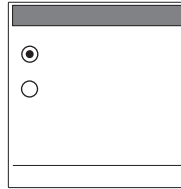
- *No sound*
- *Click, or*
- *Beep*





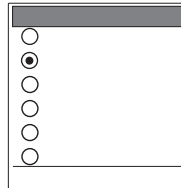
8 Selecting **2. Text size** in the **Handset settings** window (step 1) allows you to set the size of the letters in the display to:

- *Large, or*
- *small*

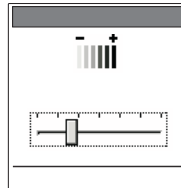


9 Selecting **3. Backlight** in the **Handset settings** window (step 1) provides the following light control options:

- *Off*
- *Automatic*
- *Automatic 10 secs*
- *Automatic 30 secs*
- *Automatic 1 min*
- *On*



10 Selecting **4. Display contrast** in the **Handset settings** window displays a slide control allowing the contrast to be adjusted and the setting saved.

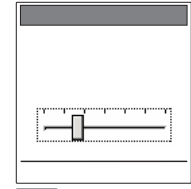


11 The **5. Mic and line out** function in the **Handset settings** window provides the choices:

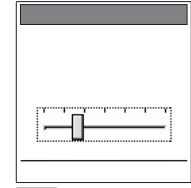
- *Microphone level*
- *Line out level*
- *Line out content*



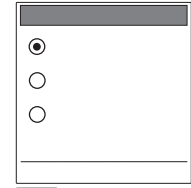
- Selecting **Microphone level** allows the microphone input to be adjusted.



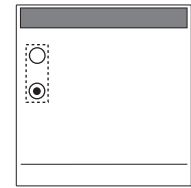
- Selecting **Line out level** allows adjusting the output from the stereo jack.



- The **Line out content** allows the choice of conveying:
 - *Receive*
 - *Transmit*
 - *Both*



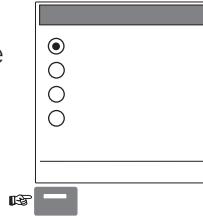
12 The **6. Time format** function in the **Handset settings** window provides the choice of time display format:



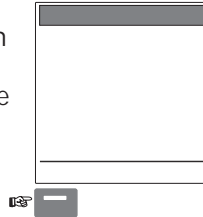


13 With the **7.Language** function in the **Handset settings** window the language appearing in the display may be set to:

- *English*
- *Norwegian*
- *Spanish, or*
- *Russian*



14 The **8.Software version** function in the **Handset settings** window provides the revision of the software installed in the Nera WorldSet.

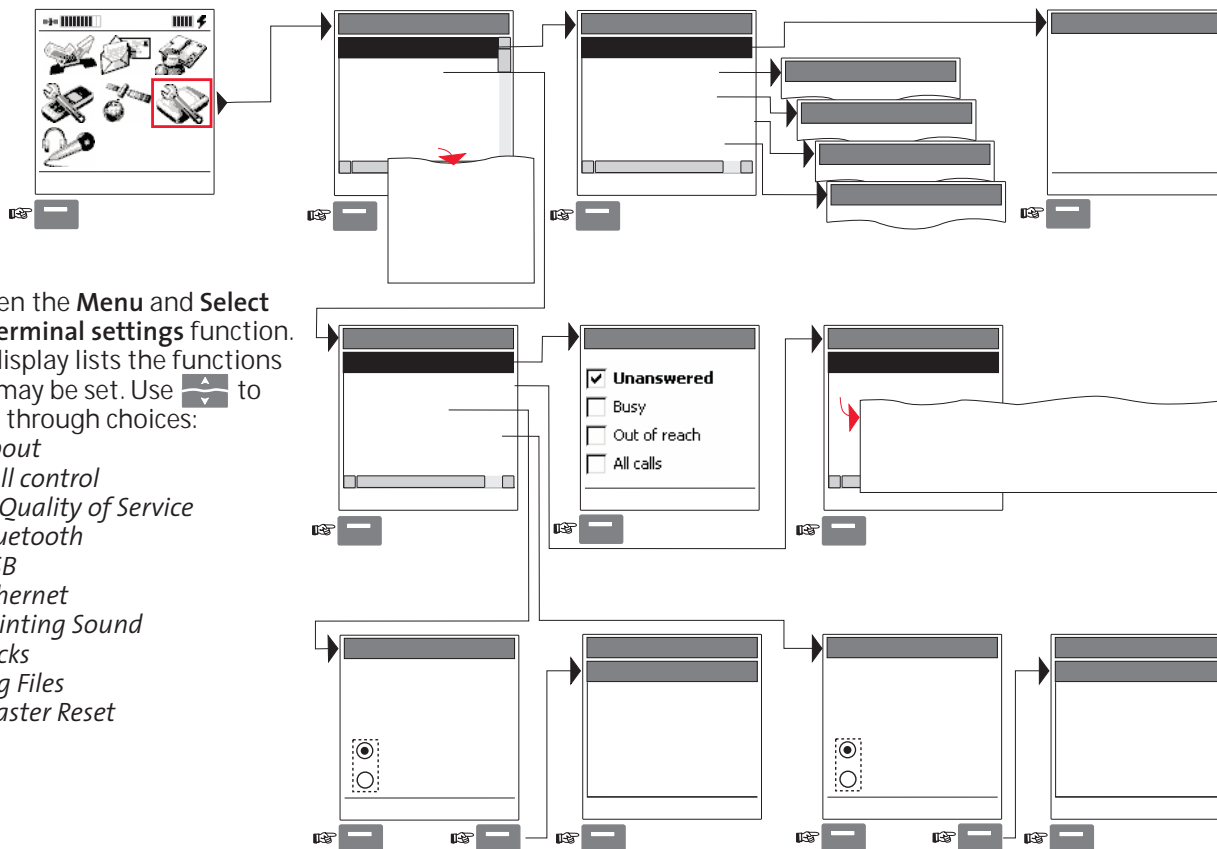


Language reset


When operating the Nera WorldPro 1000 with the display language set to e.g. spanish, the terminal can easily be reset to default, i.e. english.



Terminal settings



1 Open the **Menu** and **Select** the **Terminal settings** function.

The display lists the functions that may be set. Use  to scroll through choices:

0. *About*

1. *Call control*

2. *IP Quality of Service*

3. *Bluetooth*

4. *USB*

5. *Ethernet*

6. *Pointing Sound*

7. *Locks*

8. *Log Files*

9. *Master Reset*



