



Nera WorldSet



# User Guide





INTRODUCTION.....	5	<i>Making a call</i> .....	10
General.....	5	<i>Last call redialing</i> .....	12
Optimised for satellite users.....	5	To redial a number:.....	12
Integrated BGAN functionality.....	5	<i>Text message</i> .....	13
TECHNICAL DATA.....	6	Messages received.....	13
Physical data.....	6	Sending message.....	14
Services.....	6	Other text message options.....	14
Line interfaces.....	6	<i>Phonebook</i> .....	16
Display.....	6	Open the Phonebook:.....	16
Environmental.....	6	Finding a Contact.....	16
Keys.....	7	Options.....	16
OPERATION.....	8	Search SIM phonebook.....	17
<i>Overview of functions</i> .....	8	My numbers.....	17
<i>Idle</i> .....	9	Options.....	17
<i>Satellite status</i> .....	9	<i>Handset settings</i> .....	19
		<i>Language reset</i> .....	21
		<i>Terminal settings</i> .....	22

**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.



**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**

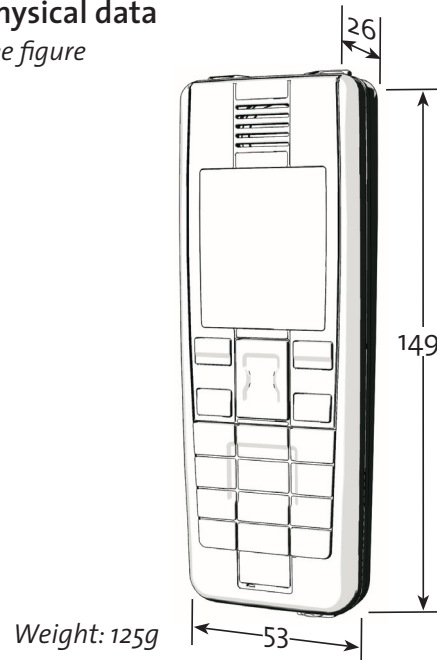
- ISDN: I.430, Q.921, Q.931, Euro-ISDN
- Handsfree: Standard 2.5 mm stereo jack, 105 mW @ 16 ohm high-level speaker drive
- Line out interface: 3.5 mm stereo jack. 105 mW @ 16 ohm high-level speaker drive
- Microphone: Standard 3.5 mm mono jack. Dynamic microphone input. 0 – 60 dB gain

**Display**

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

**Physical data**

*See figure*

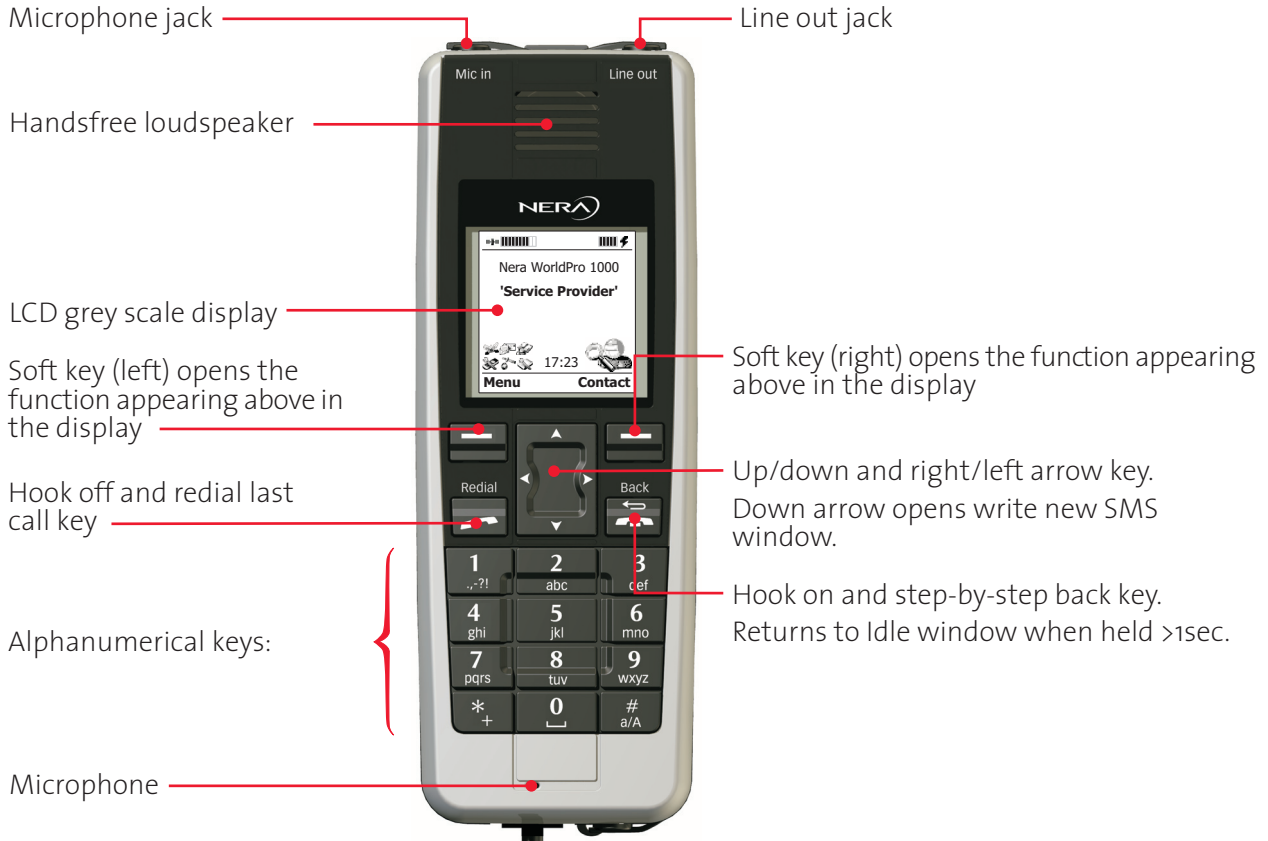


*Nera WorldSet, dimensions and weight.*

**Environmental**

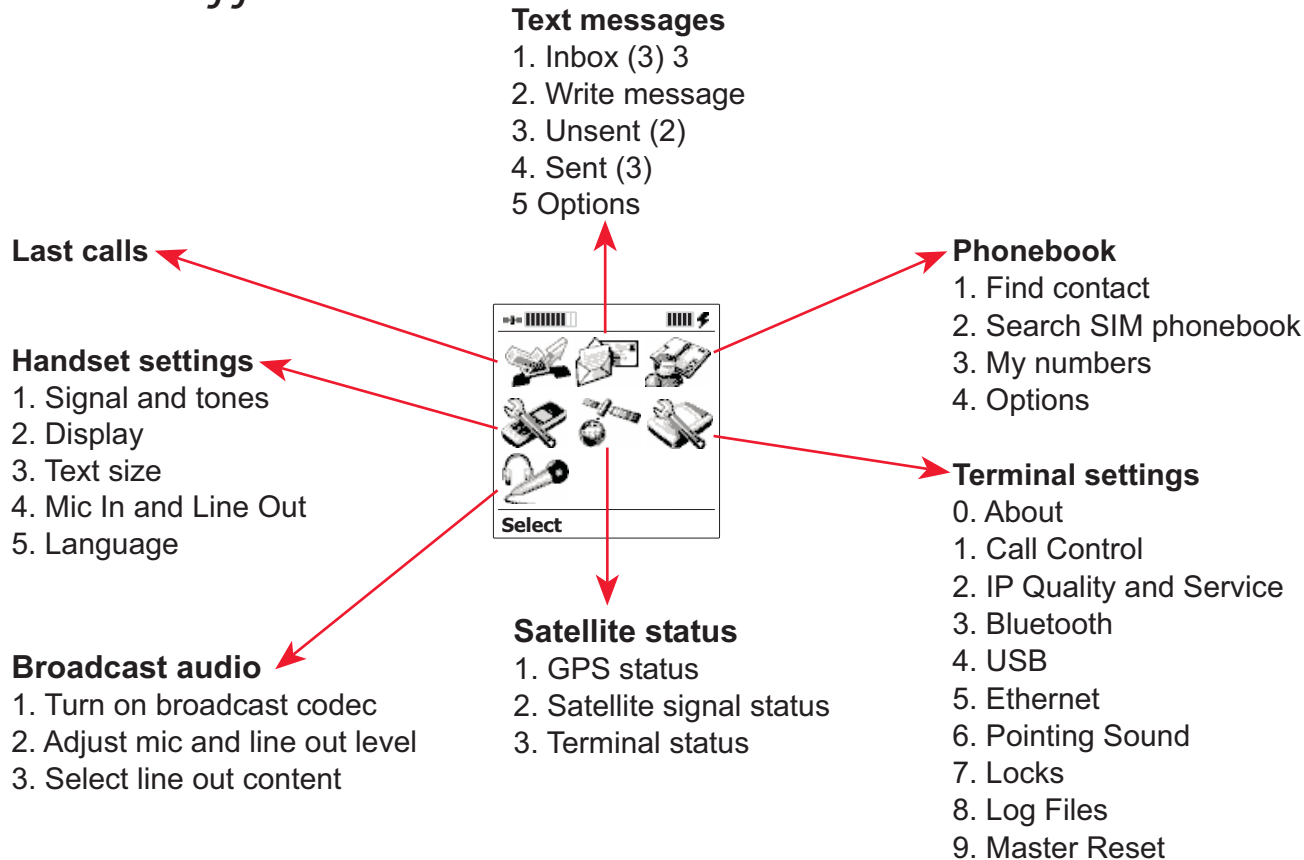
- Sealing class: IP44
- Operating temperature: -20°C to +55°C

## Keys



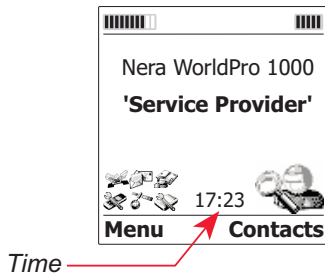


## Overview of functions

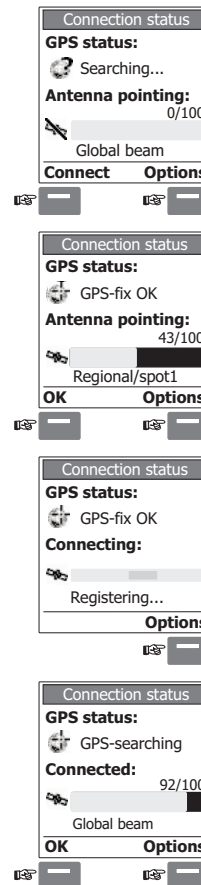


## Idle

When idle, the Nera WorldSet displays:



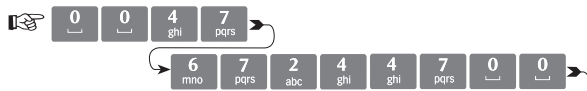
## Satellite status





## 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

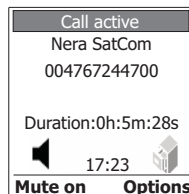
- Press **Speaker** to toggle the built-in loudspeaker on/off.

*Example of audible signals:*

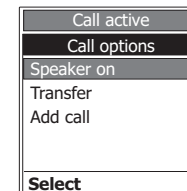
- incoming calls
- SMS alert
- dial tone
- key click

- The **Call active** display shows the duration of the call as it progresses.

- Press **Mute** on/off to toggle handsfree microphone/ speaker on/off.



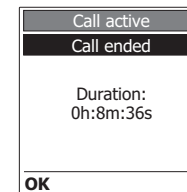
- Pressing **Options** provides the following choices:
  - *speaker on*
  - *transfer a call*
  - *add call*



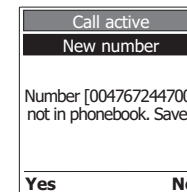
Use the arrow down/up key and **Select** as required.

3 Press to end the call.

*The display shows the duration of the call*



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



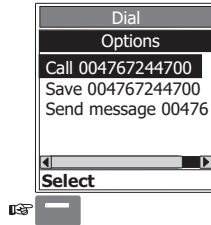
- Press **Yes** to enter contact info, see *Phonebook* later in this manual



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

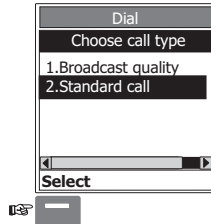
- *call the dialed number*
- *save the number,*  
see **Phonebook**
- *send message,*  
see **Text message**

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 WorldPro 1000 is switched off.

### To redial a number:

1 Press to recall the last number dialed:

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

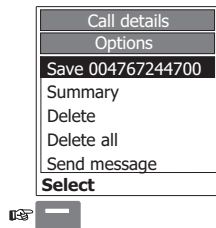
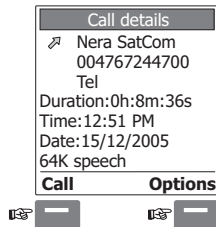


2 Pressing or **Call** sends the chosen contact number:

3 Pressing **Options** lists the functions:

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

Use to scroll through list.

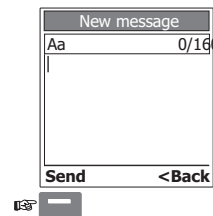
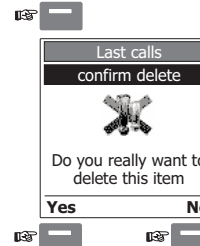
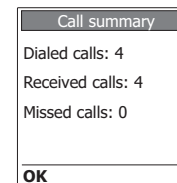


• Press **Save** to store the subscriber as new contact, see **Phonebook**.

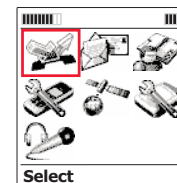
• Selecting the **Summary** option shows the data of the calls stored in the memory.

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**:





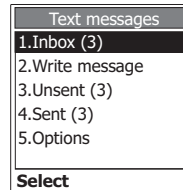
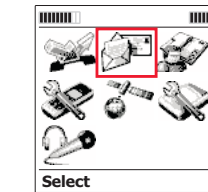
## Text message

Text messages may consist of up to 160 characters.

### Messages received

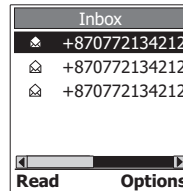
1 Open the **Menu** and **Select** the **Text Messages** function.

The display lists the choices:

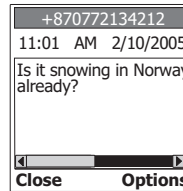


2 selecting **Inbox** lists the received numbers:

Stepping reveals all data, e.g.:  
+870772134293 16:38 16/1/2006



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



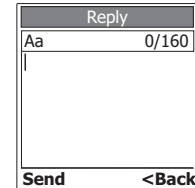
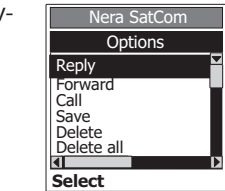
- Pressing **Close** stores the message.

- Pressing **Options** displays several choices:

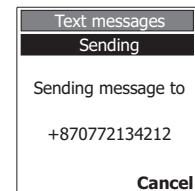
- Reply
- Forward
- Call
- Delete
- Delete all

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

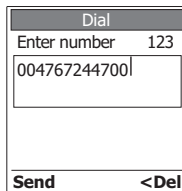
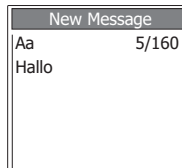
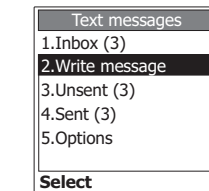
**1** Select the **Text Messages** function and scroll down to **Write message**.

**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

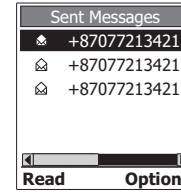
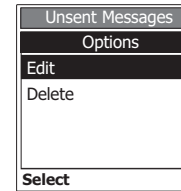
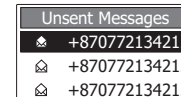
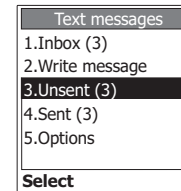
**1** Scroll down to **Unsent**.

**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.

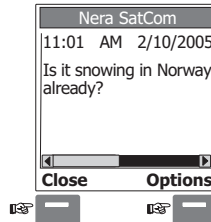
**4** Press **Select** to **Delete** the highlighted message or scroll down and **Select Delete all** the listed **Unsent** messages.

**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



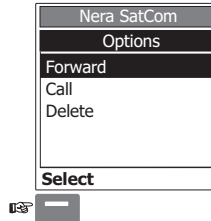


**6** Pressing **Read** displays the message content.



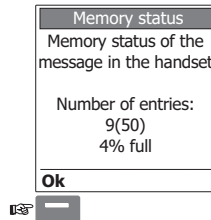
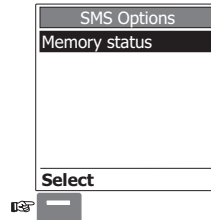
**7** Pressing **Options** displays the choices:

- Forward
- Call
- Delete
- Delete all



**8** Scroll down  and select as required.

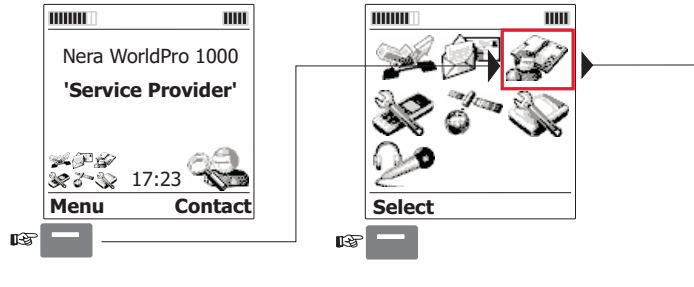
**9** Revert to step **1** and scroll down  to **SMS Options**. Pressing **Select** displays the Nera WorldSet memory status:



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.



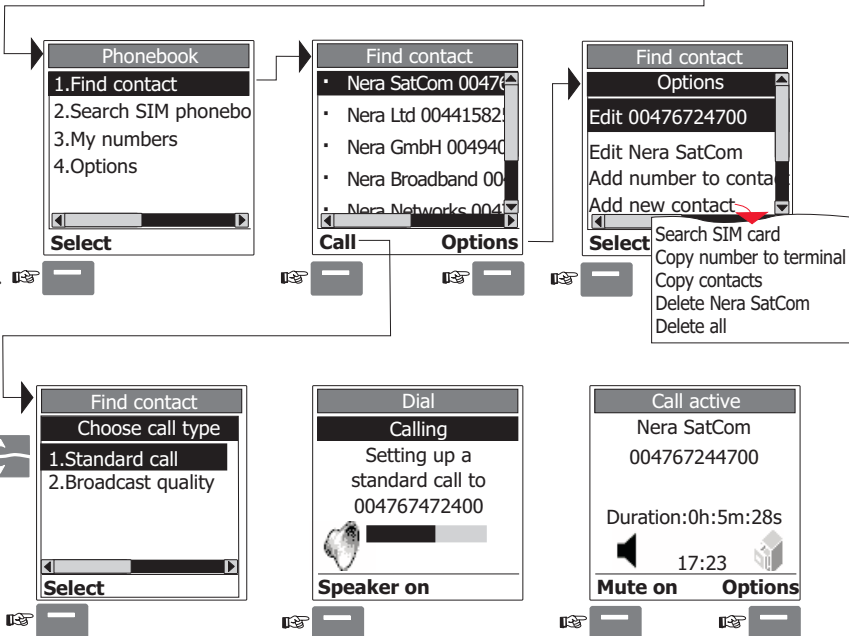
### Open the Phonebook:

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

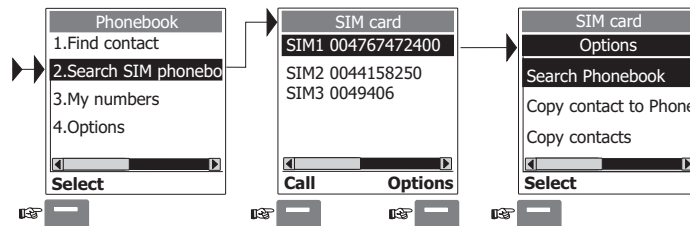
3 Selecting **Options** lists the choices of modifying the phonebook entries. **Select** as required.



## Search SIM phonebook

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

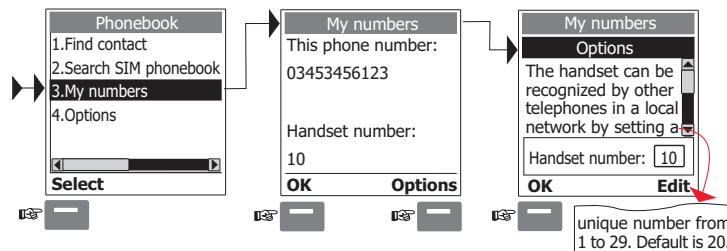
Pressing **Call** sends the subscriber number.  
See the previous page.



## 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.



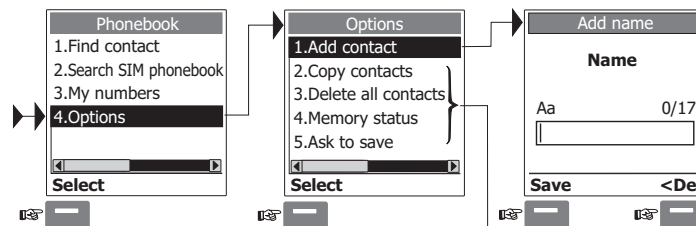
## Options

**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



See next page →

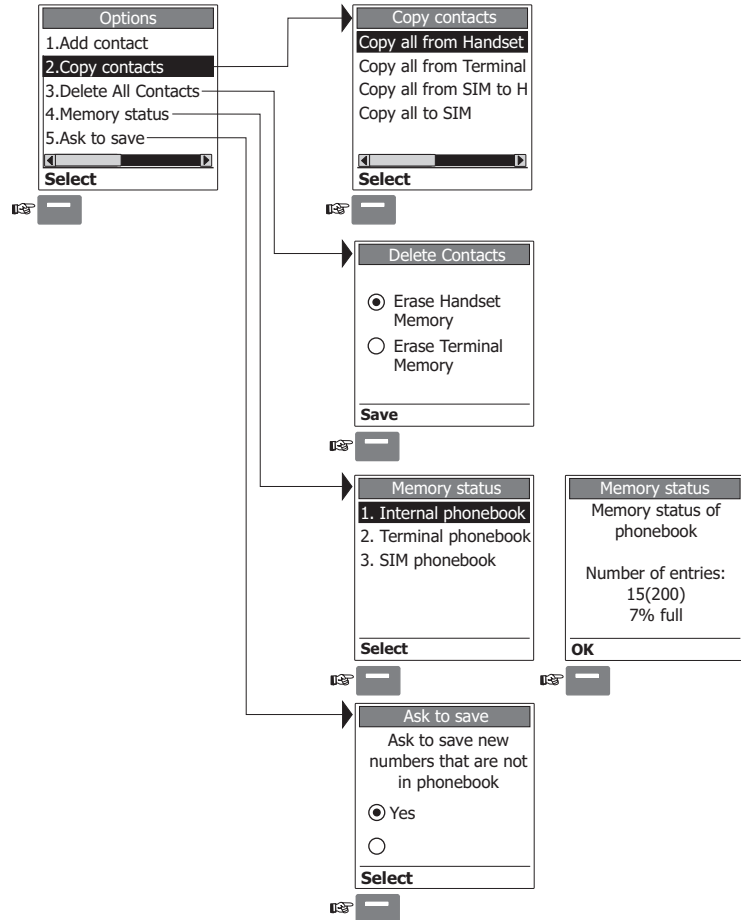


## Options cont'd

**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.



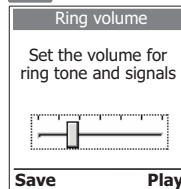
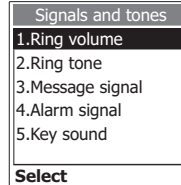
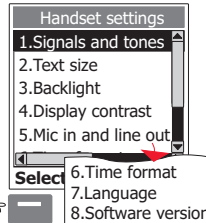
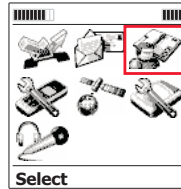


## Handset settings

**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
7. Language
8. Software version



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

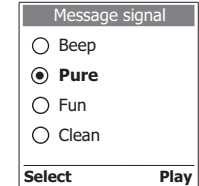
1. Ring volume
2. Ring tone
3. Message signal
4. Alarm signal
5. Key sound

**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.

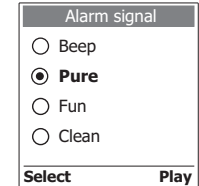
**4** Selecting **2. Ring tone** in the **Signals and tones** window allows you to choose among five different melodies to sound when receiving a call.



**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).

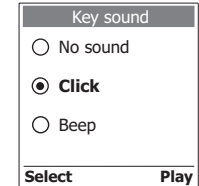


**6** Selecting **4. Alarm signal** in the **Signals and tones** window allows you to choose the sound to be heard when an alarm condition occurs.



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

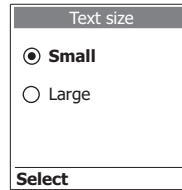
- No sound
- Click, or
- Beep





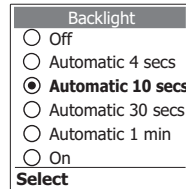
**8** Selecting **2.Text size** in the **Handset settings** window (step 1) allows you to set the size of the letters in the display to:

- *Large, or*
- *small*

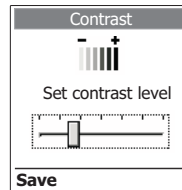


**9** Selecting **3.Backlight** in the **Handset settings** window (step 1) provides the following light control options:

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

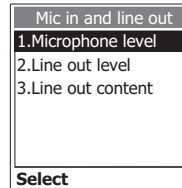


**10** Selecting **4.Display contrast** in the **Handset settings** window displays a slide control allowing the contrast to be adjusted and the setting saved.

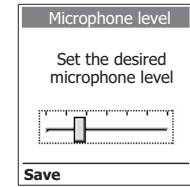


**11** The **5.Mic and line out** function in the **Handset settings** window provides the choices:

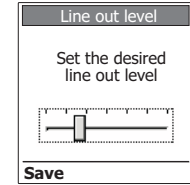
- *Microphone level*
- *Line out level*
- *Line out content*



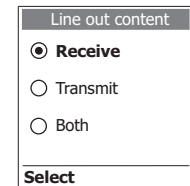
- Selecting **Microphone level** allows the microphone input to be adjusted.



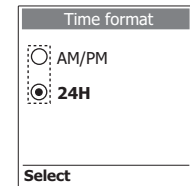
- Selecting **Line out level** allows adjusting the output from the stereo jack.



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



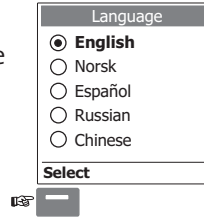
**12** The **6.Time format** function in the **Handset settings** window provides the choice of time display format:





**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*



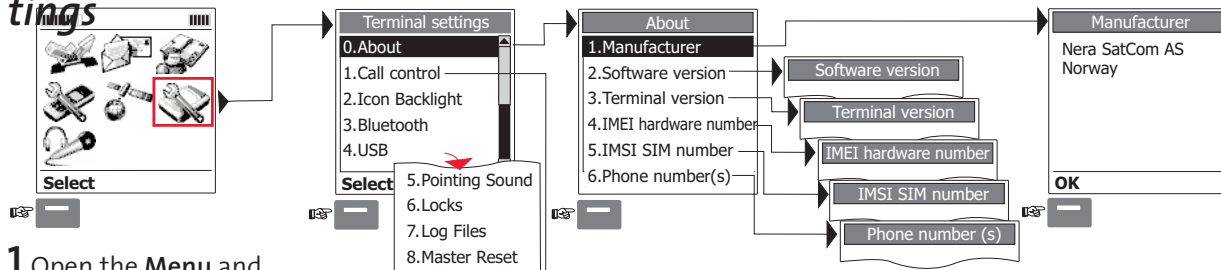
**14** The **8.Software version** function in the **Handset settings** window provides the revision of the software installed in the Nera WorldSet.



## *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.

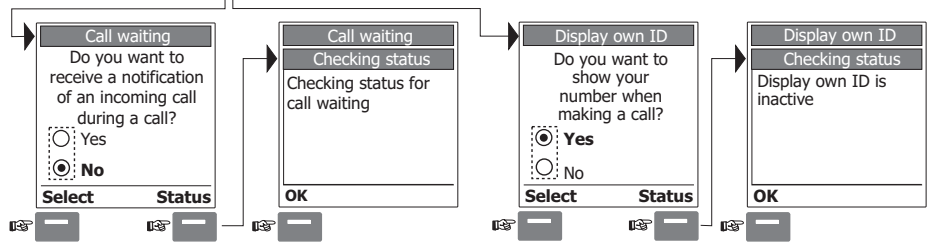
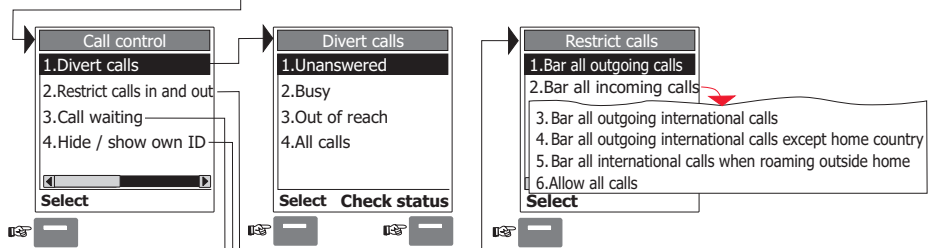
# Terminal set- tings

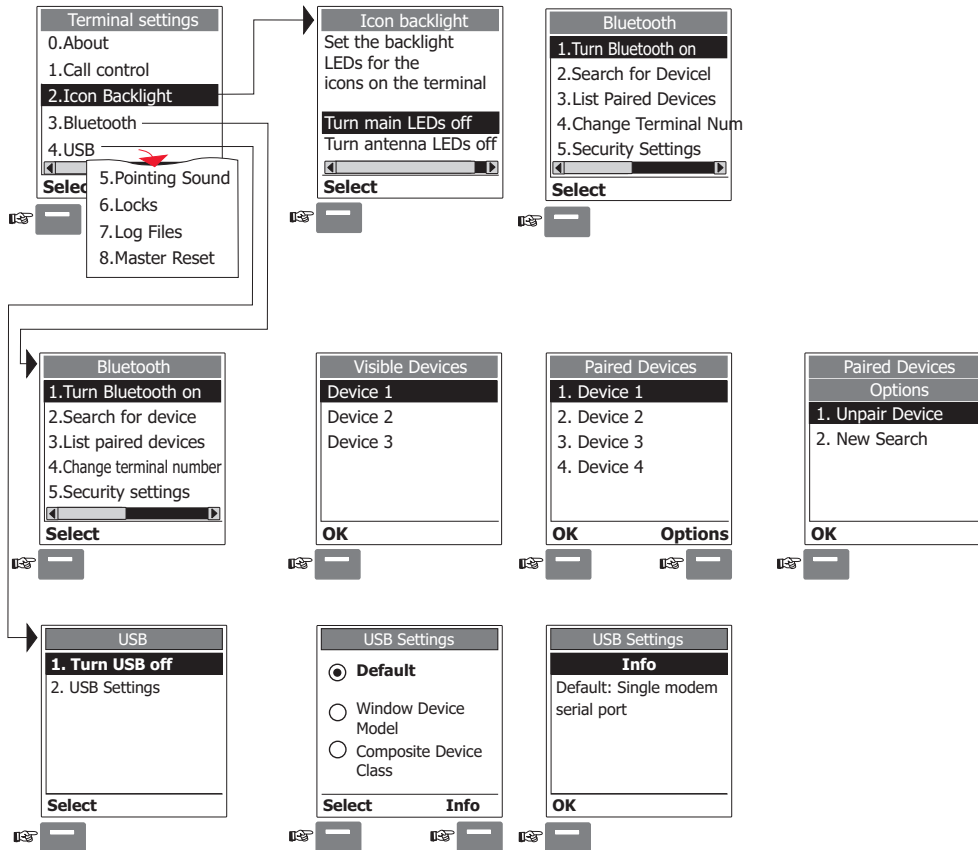


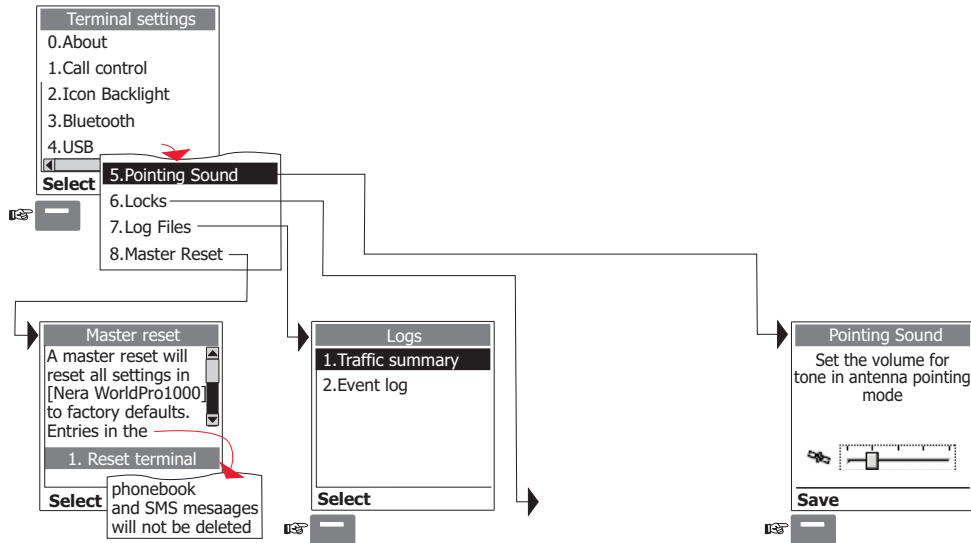
**1** Open the **Menu** and **Select** the **Terminal set-tings** function.

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. Pointing Sound
- 6. Locks
- 7. Log Files
- 8. Master Reset








**Locks**

- 1.Turn SIM lock on**
- 2.Change SIM card PIN
- 3.Lock terminal to SIM
- 4.Change terminal passkey

**Select**


**Deactivate Lock**



Enter PIN (PUK)

**Enter** <Back


**Enter PIN**



Enter PIN number

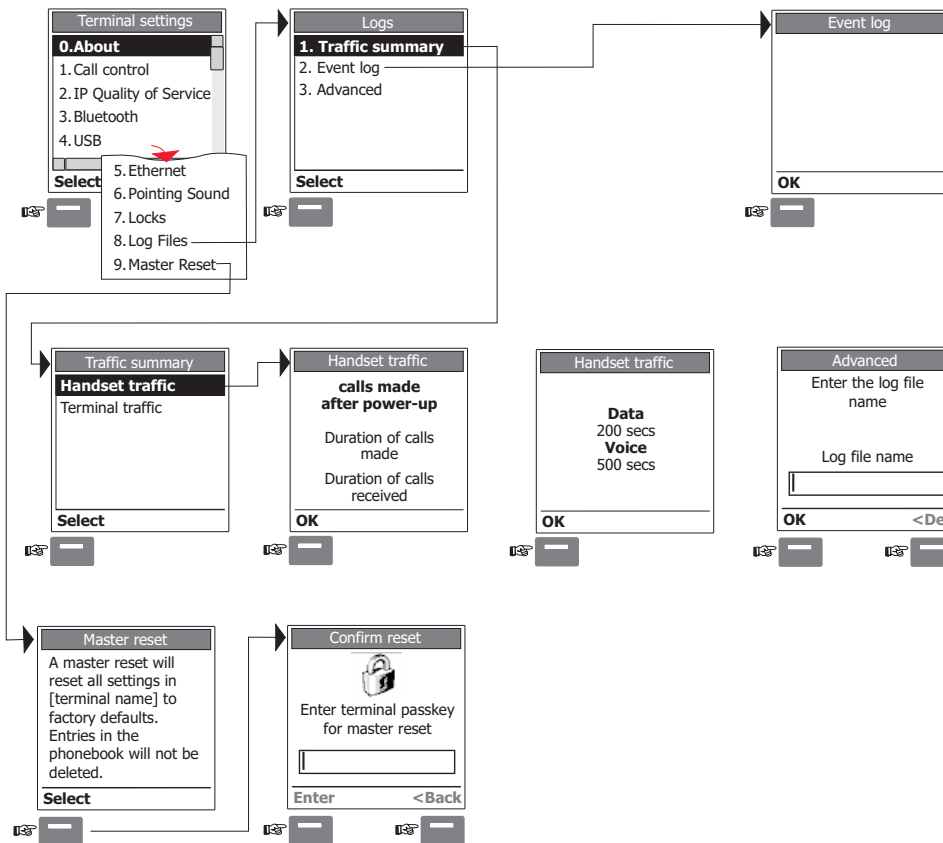
**Enter** <Back

**Enter Passkey**



Locked to another SIM  
Enter terminal passkey

**Enter** <Back









Nera ASA

Nera SatCom AS

Bergerveien 12, PO Box 91  
N-1375 Billingstad, Norway

Tel: +47 67 24 47 00

Fax: +47 67 24 46 21

[www.nera.no](http://www.nera.no)