



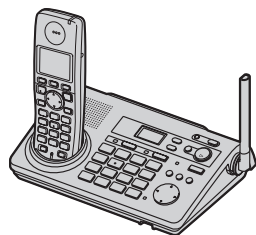
# Panasonic

## Operating Instructions

Digital Cordless Answering System

Model No. **KX-TG8280FX**

**2LINE**



**This unit is Caller ID compatible. To display the caller's phone number, you must subscribe to Caller ID service.**

**Charge the batteries for about 7 hours before initial use.**

To use this unit in your country, first change the unit's region setting to match your country (page 31). Change the unit's display language as needed (page 14).

(For Czech and Slovakia)

This cordless telephone is possible to use according to General licence No.: VO-R/8/08.2005-23 (for Czech), VPR-7/2001 (for Slovakia).

Please read these operating instructions before using the unit and save them for future reference.

**Table of Contents**

**Preparation**

Introduction . . . . . 3  
 Accessory information . . . . . 4  
 Important information . . . . . 5  
 Controls . . . . . 7  
 Displays . . . . . 8  
 Connections . . . . . 10  
 Battery installation and replacement . 12  
 Battery charge . . . . . 13  
 Screen saver mode . . . . . 14  
 Turning the power on/off . . . . . 14  
 Setting up the unit before use . . . . . 14

**☎ Making/Answering Calls**

Making calls . . . . . 17  
 Answering calls . . . . . 18  
 Useful features during a call . . . . . 19  
 Using the other line during a call . . . 21

**📖 Phonebook**

Handset phonebook . . . . . 22

**📱 Handset Settings**

Handset settings . . . . . 24  
 Special instructions for time settings . 27  
 Special instructions for ringer setup . 27

**📞 Base Unit Settings**

Base unit settings . . . . . 29  
 Special instructions for call options . . 31  
 Special instructions for other options . 31

**☎ Caller ID Service**

Using Caller ID service . . . . . 33  
 Caller list . . . . . 34  
 Voice mail service . . . . . 35

**📞 Answering System**

**Features**

Answering system . . . . . 36  
 Turning the answering system on/off . 36  
 Greeting message . . . . . 36  
 Listening to messages . . . . . 38  
 Direct command operation using the handset . . . . . 39  
 Remote operation . . . . . 40  
 Answering system settings . . . . . 41

**Multi-unit Operation**

Operating additional units . . . . . 43  
 Registering a handset to the base unit . . . . . 43  
 Intercom . . . . . 44  
 Transferring calls . . . . . 45  
 Conference calls . . . . . 46  
 Copying phonebook entries . . . . . 47

**Useful Information**

Using the belt clip . . . . . 48  
 Character entry . . . . . 49  
 Error messages . . . . . 51  
 Troubleshooting . . . . . 51  
 Specifications . . . . . 56

**Index**

Index . . . . . 57

**Preparation**

---

---

## Introduction

**Thank you for purchasing a new Panasonic digital cordless phone.**

**For your future reference**

Attach or keep original receipt to assist with any repair under warranty.

Serial No. (found on the bottom of the base unit)
Date of purchase
Name and address of dealer

**Note:**

- This equipment is designed for use on the Czech, Slovakia, and Turkey analogue telephone network.
- In the event of problems, you should contact your equipment supplier in the first instance.
- For use on other countries, please contact your equipment supplier.

**Declaration of Conformity:**

- Panasonic Communications Co., Ltd. declares that this equipment is in compliance with the essential requirements and other relevant provisions of Radio & Telecommunications Terminal Equipment (R&TTE) Directive 1999/5/EC. Declarations of Conformity for the relevant Panasonic products described in this manual are available for download by visiting:  
<http://www.doc.panasonic.de>

**Contact to Authorised Representative:**

Panasonic Testing Centre  
Panasonic Marketing Europe GmbH  
Winsbergring 15, 22525 Hamburg, Germany

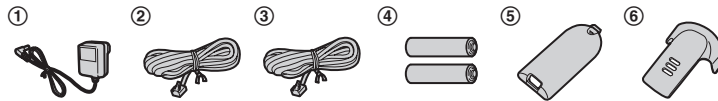
**Preparation**

**Accessory information**

**Supplied accessories**

No.	Accessory items	Quantity
①	AC adaptor for base unit (Part No. PQLV207CE)	1
②	4-wire telephone line cord with green plugs	1
③	2-wire telephone line cord with transparent plugs	1
④	Rechargeable batteries AAA (R03) size (Part No. HHR-55AAAB)	2
⑤	Handset cover*1	1
⑥	Belt clip	1

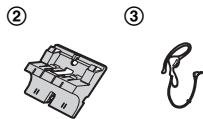
\*1 The handset cover comes attached to the handset.



**Additional/replacement accessories**

Please contact your nearest Panasonic dealer for sales information.

No.	Model No.	Description
①	KX-TGA828FX	Additional Digital Cordless Handset
②	PQZMGT1500	Wall-Mounting Adaptor
③	KX-TCA94EX	Headset
④	KX-A272	DECT repeater



**Note:**

- When replacing the batteries, use only 2 rechargeable AAA (R03) size nickel metal hydride (Ni-MH) batteries. We recommend using Panasonic rechargeable batteries (Model No. P03P).
- Replacement batteries may have a different capacity from that of the supplied batteries.

**Preparation**

**Important information**

**General**

- Use only the AC adaptor supplied with this product, noted on page 4.
- Do not connect the AC adaptor to any AC outlet other than a standard 220–240 V AC outlet.
- This product is unable to make calls when:
  - the portable handset battery(ies) need recharging or have failed.
  - there is a power failure.
  - the key lock feature is turned on.
- Do not open the base unit, charger, or handset other than to replace the battery(ies).
- Consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The product operates in the frequency range of 1.88 GHz to 1.90 GHz, and the power output is 250 mW (max.)) Do not use the product in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.
- Care should be taken that objects do not fall onto, and liquids are not spilled into, the product. Do not subject this product to excessive smoke, dust, mechanical vibration or shock.

**Environment**

- Do not use this product near water.
- This product should be kept away from heat sources such as radiators, cookers, etc. It should also not be

placed in rooms where the temperature is less than 5 °C or greater than 40 °C.

**Warning:**

- To prevent the risk of electrical shock, do not expose this product to rain or any other type of moisture.
- Unplug this product from power outlets if it emits smoke, an abnormal smell, or makes unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped emitting and contact an authorised service centre.
- Do not spill liquids (detergents, cleansers, etc.) onto the telephone line cord plug, or allow it to become wet at all. This may cause a fire. If the telephone line cord plug becomes wet, immediately pull it from the telephone wall jack, and do not use.
- Do not place or use this product near automatically controlled devices such as automatic doors and fire alarms. Radio waves emitted from this product may cause such devices to malfunction resulting in an accident.
- Regularly remove any dust, etc. from the AC adaptor/power plug by pulling it from the power outlet, then wiping with a dry cloth. Accumulated dust may cause an insulation defect from moisture, etc. resulting in a fire.
- Do not damage the power cord/plug. This may cause a short circuit, electric shock, and/or fire.
- Do not touch the plug with wet hands.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the product and is easily accessible.

### Preparation

#### Battery caution

- We recommend using the battery(ies) noted on page 4. **Use only rechargeable battery(ies).**
- Do not mix old and new batteries.
- Do not dispose of the battery(ies) in a fire, as they may explode. Check with local waste management codes for special disposal instructions.
- Do not open or mutilate the battery(ies). Released electrolyte from the battery(ies) is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- Exercise care when handling the battery(ies). Do not allow conductive materials such as rings, bracelets or keys to touch the battery(ies), otherwise a short circuit may cause the battery(ies) and/or the conductive material to overheat and cause burns.
- Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.
- Only use a compatible base unit (or charger) to charge the battery(ies). Do not tamper with the base unit (or charger). Failure to follow these instructions may cause the battery(ies) to swell or explode.

#### Notice for product disposal, transfer, or return

- This product can store your private/confidential information. To protect your privacy/confidentiality, we recommend that you erase the information such as phonebook or caller list entries from the memory before you dispose, transfer or return the product.

#### Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

#### For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

## Preparation

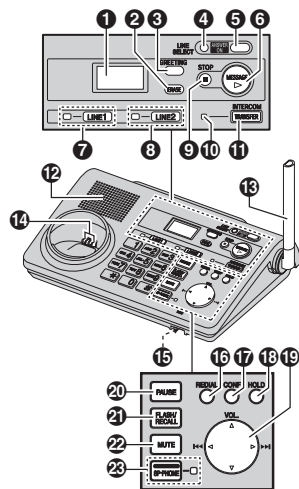
### Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

## Controls

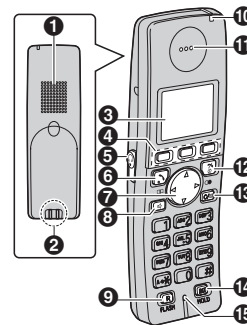
### Base unit



- 1 Display
- 2 [ERASE]
- 3 [GREETING]
- 4 [LINE SELECT]
- 5 [ANSWER ON]  
Answer on indicator
- 6 [MESSAGE]  
Message indicator

- 7 [LINE 1]  
Line 1 indicator
- 8 [LINE 2]  
Line 2 indicator
- 9 [STOP]
- 10 Intercom indicator
- 11 [TRANSFER] [INTERCOM]
- 12 Speaker
- 13 Antenna
- 14 Charge contacts
- 15 MIC (Microphone)
- 16 [REDIAL]
- 17 [CONF] (Conference)
- 18 [HOLD]
- 19 Navigator key  
[▲]: Volume up/  
[▼]: Volume down/  
[◀]: Repeat/[▶]: Skip
- 20 [PAUSE]
- 21 [FLASH/RECALL]
- 22 [MUTE]
- 23 [SP-PHONE] (Speakerphone)  
Speakerphone indicator

### Handset



- 1 Speaker
- 2 Charge contacts
- 3 Display
- 4 Soft keys
- 5 Headset jack

**Preparation**

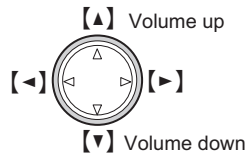
- 6 (Talk)
- 7 Navigator key (///)
  - (Phonebook)
  - (Redial/Pause)
- 8 (Speakerphone)
- 9 (Recall/Flash)
- 10 Charge indicator/Ringer indicator/Message indicator
- 11 Receiver
- 12 (Off/Power)
- 13 (Clear/Mute)
- 14 (Intercom) (HOLD)
- 15 Microphone

**Using the handset navigator key**

Press , , , or to navigate through menus and to select items shown on the display.

**Adjusting the receiver or speaker volume**

Press or while on a call.



**Displays**

**Base unit display icons**

Icon	Meaning
	Indicates the selected line(s) for answering system operations and settings. <ul style="list-style-type: none"> <li>• When flashing: The answering system is answering a call or playing a message on the line.</li> </ul>
	Flashes when message memory is full.
	Answering system answers calls with a greeting message and caller messages are not recorded. ("Caller's recording time", page 42)
	Greeting message recording error <ul style="list-style-type: none"> <li>• Recording was too short. Try again.</li> </ul>
	Indicates the line 1 and/or line 2 ringer is off.

**Handset display icons**

Icon	Meaning
	Within range of a base unit <ul style="list-style-type: none"> <li>• When flashing: Handset is searching for base unit. (page 51)</li> </ul>



**Preparation**

Icon	Meaning
	Icon displayed at the top of the screen shows status, indicated by colour. – <b>green:</b> When using own handset – <b>yellow:</b> When using another handset or the base unit The line is in use. • When flashing: – the call is put on hold on that line. – the answering system is answering a call on that line. • When flashing rapidly: an incoming call is now being received on that line.
	Missed call* <sup>1</sup> (page 33)
	Answering system is on.* <sup>2</sup> (page 36)
	When displayed with a number: New messages have been recorded. (page 38)
	Answering system is full.
	Indicates the selected line(s) for answering system operations and settings.
	Answering system answers calls with a greeting message and caller messages are not recorded.* <sup>2</sup> ("Caller's recording time", page 42)
	Battery level
	Alarm is on. (page 27)
	Voice enhancer is set. (page 20)

Icon	Meaning
	Call privacy mode is on. (page 21)
	Ringer volume (page 24) is off.* <sup>2</sup>
	Night mode is on. (page 28)
[1]	Handset number (standby display setting, page 25)
	New voice mail message received* <sup>2</sup> , * <sup>3</sup> (page 35)

\*1 Caller ID subscribers only

\*2 Corresponding line number(s) is indicated next to the icon.

\*3 Voice mail users only

**Handset menu icons**

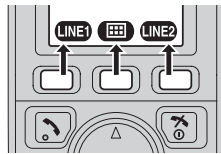
When in standby mode, pressing the middle soft key reveals the handset's main menu. From here you can access various features and settings.

Icon	Feature
	Caller List
	Ringer Setup
	Answer System
	Handset Setup
	Base Unit Setup
	Display Setup

## Preparation

### Handset soft keys

The handset features 3 soft keys. By pressing a soft key, you can select the feature shown directly above it on the display.



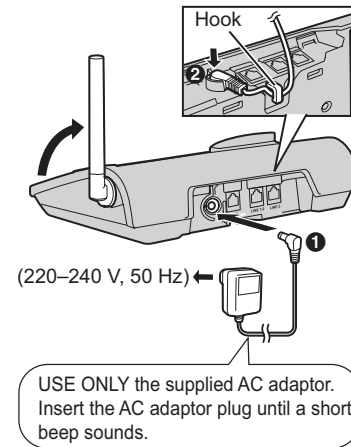
### Handset soft key icons

Icon	Action
	Returns to the previous screen.
	Selects line 1 or line 2 for making a call.
	Selects line 1 or line 2.
	Displays the menu.
	Accepts the current selection.
	Displays the phonebook search menu.
	Turns the key lock feature off. (page 20)
	Selects a character entry mode.
	Switches between line 1, line 2, or both during answering system operations and settings.
	Stops recording or playback.
	Inserts a dialling pause.
	Erases the selected item.
	Establishes a conference call.
	No function

## Connections

### Connecting the AC adaptor

Connect the AC adaptor cord (1) by pressing the plug firmly (2).



### Note:

- Never install telephone wiring during a lightning storm.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.
- The unit will not work during a power failure. We recommend you connect a standard telephone on the same line for power protection.

## Preparation

### Location

- For maximum distance and noise-free operation, place your base unit:
  - away from electrical appliances such as TVs, radios, personal computers, or other phones.
  - in a convenient, high, and central location.

### Connecting the telephone line cord

Refer to one of the following methods depending on your situation:

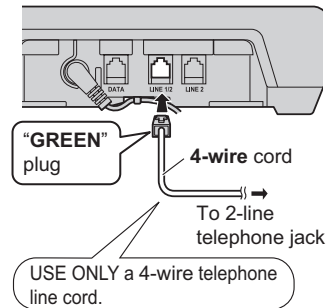
- To connect to a 2-line telephone jack: page 11
- To connect to 2 single-line telephone jacks: page 11
- If you use the unit as a single-line telephone only: page 11

Connect the telephone line cord until it clicks into the base unit and telephone line jack.

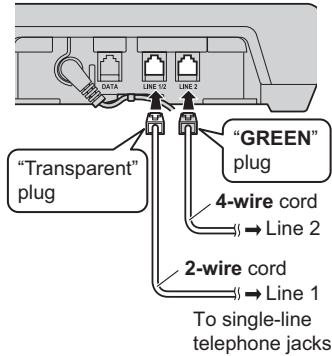
#### Important:

- If you use a telephone line cord which is not supplied, the unit may not work properly.

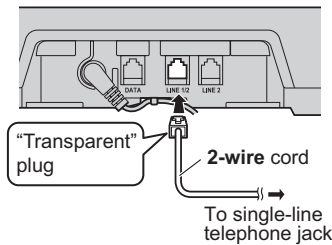
#### To connect to a 2-line telephone jack



#### To connect to 2 single-line telephone jacks



#### If you use the unit as a single-line telephone only

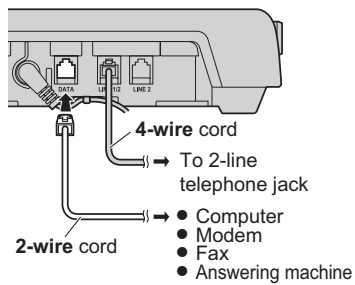


## Preparation

### Connecting a communication device

You can connect a communication device (computer, modem, fax, answering machine, etc.) through this unit using the DATA jack.

#### Example:



- If the communication device is in use, use line 2 to make or answer other calls. Otherwise the communication device may not operate properly.
- If you connect the unit to 2 single-line telephone jacks, prepare an extra telephone line cord for the DATA jack.

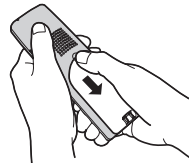
### Battery installation and replacement

#### Important:

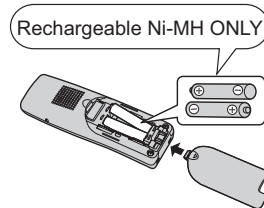
- Use only the supplied rechargeable batteries noted on page 4, 6.
- USE ONLY rechargeable Ni-MH batteries AAA (R03) size.
- Do NOT use Alkaline/Manganese/Ni-Cd batteries.
- Ensure correct polarities (⊕, ⊖) when installing the batteries.
- Wipe the battery ends (⊕, ⊖) with a dry cloth.

- When installing the batteries, avoid touching the battery ends (⊕, ⊖) or the unit contacts.
- When replacing batteries, we recommend using the Panasonic rechargeable batteries noted on page 4, 6.

- 1 Press the notch on the handset cover firmly and slide it in the direction of the arrow.

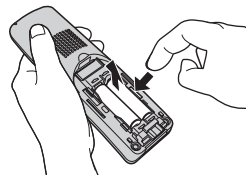


- 2 Insert the batteries negative (⊖) end first. Close the handset cover.



#### Note:

- When replacing batteries, remove the old batteries.



**Preparation**

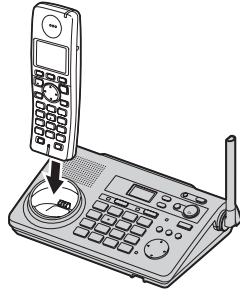
**Battery charge**

Place the handset on the base unit for about 7 hours before initial use.

When charging, "Charging" will be displayed.

When the batteries are fully charged, "Charge Completed" will be displayed.

- The charge indicator lights up when the handset is placed on the base unit.



**Note:**

- It is normal for the handset to feel warm during charging.
- If you want to use the unit immediately, charge the batteries for at least 15 minutes.
- Clean the charge contacts of the handset and base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to the exposure of grease, dust, or high humidity.

**Battery level**

Battery icon	Battery level
	High
	Medium
	Low <ul style="list-style-type: none"> <li>• When flashing: Needs to be charged.</li> </ul>

**Panasonic Ni-MH battery performance (supplied batteries)**

Operation	Operating time
In continuous use	12 hours max.
In continuous standby mode	150 hours max.

**Note:**

- It is normal for batteries not to reach full capacity at the initial charge. Maximum battery performance is reached after a few complete cycles of charge/discharge (use).
- Actual battery performance depends on a combination of how often the handset is in use and how often it is not in use (standby).
- Even after the handset is fully charged, the handset can be left on the base unit without any ill effect on the batteries.
- The battery level may not be displayed correctly after you replace the batteries. In this case, place the handset on the base unit and let it charge for at least 7 hours.

## Preparation

### Screen saver mode

The backlight will turn off completely after 1 minute of inactivity if the handset is not on the base unit. Press [**ⓧ**] to turn the display on again.

### Turning the power on/off

Press [**ⓧ**] for about 2 seconds to turn the power on/off.

### Setting up the unit before use

#### Region settings

You can set the unit to use settings that match your country (page 31). The display language and other settings will change accordingly.

**Note:**

- The display language only changes (to the selected country's default setting) for the handset used to select the region setting. You must change the display language for all other handsets separately.

### Display language

17 display languages are available.

You can select "Deutsch", "English", "Türkçe", "Magyar", "Polski", "Slovenčina", "Čeština", "Hrvatski", "Slovenscina", "Eesti", "LIETUVIŠKAI", "Latviešu", "Română", "БЪЛГАРСКИ", "Srpski", "МАКЕДОНСКИ", or "Shqip".

#### Handset

- 1 [**ⓧ**] → **[ⓧ]**
- 2 Select **[i]** by pressing [**▲**], [**▼**], [**◀**], or [**▶**]. → **OK**
- 3 Press [**▲**] or [**▼**] to select "Display Setup". → **OK**
- 4 Press [**▲**] or [**▼**] to select "Select Language". → **OK**
- 5 Press [**▲**] or [**▼**] to select the desired language. → **OK** → [**ⓧ**]

**Note:**

- If you select a language you cannot read: [**ⓧ**] → **[ⓧ]** → **[i]** → **OK** → [**▼**] 2 times → **OK** → [**▼**] 3 times → **OK** → [**▲**]/[**▼**]: Select the desired language. → **OK** → [**ⓧ**]

## Preparation




### Dialling mode (tone/pulse)

Change the dialling mode depending on your telephone line service.

“**Tone**”: Select when you have a touch-tone service.






“**Pulse**”: Select when you have rotary/pulse service.

#### Handset

- 1  (middle soft key)
- 2 Select  by pressing [▲], [▼], [←], or [→]. → **OK**
- 3 Press [▲] or [▼] to select “Call Options”. → **OK**
- 4 Press [▲] or [▼] to select “Dial Mode”. → **OK**
- 5 Press [▲] or [▼] to select the desired setting. → **OK** → []

### Date and time


#### Handset

- 1  (middle soft key)
- 2 Select  by pressing [▲], [▼], [←], or [→]. → **OK**
- 3 Press [▲] or [▼] to select “Time Settings”. → **OK**
- 4 Press [▲] or [▼] to select “Set Date & Time”. → **OK**
- 5 Enter the current date, month, and year.  
**Example:** 17 May, 2007  
[1][7][0][5][0][7]
- 6 Enter the current hour and minute.  
**Example:** 3:30 PM  
[0][3][3][0] → Press [] until “03:30 PM” is displayed.
- 7 **OK** → [] → []

#### Note:

- To correct a digit, press [←] or [→] to move the cursor to the digit, then make the correction.
- The date and time may be incorrect after a power failure. In this case, set the date and time again.




### Line selection mode

The line selection mode determines which line is selected when you press [] on the handset or [SP-PHONE] on the base unit (when making/answering calls).

- “**Auto**” (default): When making a call, line 1 will be selected. If that line is unavailable, line 2 will be selected. When answering a call, the ringing line will be selected.
- “**Line1**”: Line 1 is selected.
- “**Line2**”: Line 2 is selected.

### Handset line selection

#### Handset

- 1  (middle soft key)
- 2 Select  by pressing [▲], [▼], [←], or [→]. → **OK**
- 3 Press [▲] or [▼] to select “Other Options”. → **OK**
- 4 Press [▲] or [▼] to select “Line Select”. → **OK**
- 5 Press [▲] or [▼] to select the desired setting. → **OK** → []




#### Note:

- You can select a line manually regardless of the line selection mode by pressing **LINE1** or **LINE2**.

## Preparation

### Base unit line selection

#### Handset

- 1  (middle soft key)
- 2 Select  by pressing [▲], [▼], [◀], or [▶]. → **OK**
- 3 Press [▲] or [▼] to select "Other Options". → **OK**
- 4 Press [▲] or [▼] to select "Line Select". → **OK**
- 5 Press [▲] or [▼] to select the desired setting. → **OK** → 

#### Note:

- You can select a line manually regardless of the line selection mode by pressing **[LINE 1]** or **[LINE 2]**.



## ☞ Making/Answering Calls

### Making calls

#### Using the handset

- 1 Lift the handset and dial the phone number.
  - To correct a digit, press [C/⊗].
- 2 [↶]
  - An available line is automatically selected and the line number is displayed. To change the line selection mode, see page 15.
  - You can also select the line manually by pressing [LINE1] or [LINE2].
- 3 When finished talking, press [⏏] or place the handset on the base unit.

#### Note:

- The line 1 or line 2 indicator on the base unit lights while using the handset.

#### Speakerphone

- 1 During a conversation, press [☎] to turn on the speakerphone.
  - Speak alternately with the caller.
- 2 When finished talking, press [⏏].

#### Note:

- For best performance, use the speakerphone in a quiet environment.
- To switch back to the receiver, press [↶].

#### Adjusting the receiver or speaker volume

Press [▲] or [▼] while on a call.

#### Making a call using the redial list

The last 10 phone numbers dialed are stored in the redial list (each 24 digits max.).

- 1 [☎]
- 2 [▲]/[▼]: Select the desired number.
- 3 [↶]/[☎]
  - If [☎] is pressed and the other party's line is engaged, the unit will automatically redial multiple times. While the handset is waiting to redial, the ringer indicator will flash. To cancel, press [⏏].

#### Editing/erasing/storing

- 1 [☎]
- 2 [▲]/[▼]: Select the desired number. → [☎]
- 3 Proceed with the desired operation.
  - **Editing a number before calling it:**
    - [▲]/[▼]: "Edit and Call" → [OK] → Press [←] or [→] to move the cursor. → Edit the number. → [↶]
    - You can also make a call by pressing [☎], then pressing [LINE1] or [LINE2].
  - **Erasing numbers:**
    - [▲]/[▼]: "Erase" or "Erase All" → [OK] → [▲]/[▼]: "Yes" → [OK] → [⏏]
  - **Storing a number into the handset phonebook:**
    - [▲]/[▼]: "Add Phonebook" → [OK] → Enter a name (16 characters max.; page 49). → [OK] → Edit the phone number if necessary. → [OK] → [▲]/[▼]: Select the desired category (page 22). → [OK] →

## Making/Answering Calls

[▲]/[▼]: "Save" → **OK** →  
[↶] [○]

### Note:

- When editing:
  - To erase a number, place the cursor on the number, then press **[C/⊗]**.
  - To insert a number, place the cursor to the right of where you want to insert a number, then press the appropriate dial key.

### Using the base unit

#### 1 [SP-PHONE]

- An available line is automatically selected and the line 1 or line 2 indicator lights. To change the line selection mode, see page 15.
- You can also select the line manually by pressing **[LINE 1]** or **[LINE 2]**.

#### 2 Dial the phone number.

- Speak alternately with the caller.

#### 3 When finished talking, press **[SP-PHONE]**.

### Note:

- For best performance, use the speakerphone in a quiet environment.
- While on a call, you can switch from the speakerphone to the handset:
  - Press **[LINE 1]** or **[LINE 2]** on the handset, then press **[SP-PHONE]** on the base unit.
  - If the handset is on the base unit, just lift it up.

### Adjusting the speaker volume

Press **[▲]** or **[▼]** while on a call.

### Redialling the last number dialed

#### 1 [SP-PHONE]

- You can also select the line manually by pressing **[LINE 1]** or **[LINE 2]**.

#### 2 [REDIAL]

- If the other party's line is engaged, the unit will automatically redial multiple times. While the base unit is waiting to redial, the speakerphone indicator will flash. To cancel, press **[SP-PHONE]**.

### Pause (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service.

**Example:** If you have to dial **[0]** before dialling outside numbers manually, you will probably need to pause after dialling **[0]** until you hear a dial tone.

#### Handset

#### 1 [0] → [●]

#### 2 Dial the phone number. → [↶]

#### Base unit

#### 1 [SP-PHONE]

#### 2 [0] → [PAUSE]

#### 3 Dial the phone number.

### Note:

- For handset and base unit:
  - A 3 second pause is inserted each time **[●]** on the handset or **[PAUSE]** on the base unit is pressed. Press repeatedly to create longer pauses.

## Answering calls

When an incoming call is being received, the ringer indicator on the handset and the line 1 or line 2 indicator on the base unit flash.

## ☛ Making/Answering Calls

### Using the handset

- 1 Lift the handset and press [☛] or [☎] when the unit rings.
  - The called line is automatically selected. To change the line selection mode, see page 15.
  - You can also answer the call by pressing [LINE1] or [LINE2].
  - You can also answer the call by pressing any dial key from [0] to [9], [\*], or [#]. (**Any key answer feature**)
- 2 When finished talking, press [☒] or place the handset on the base unit.

### Auto talk feature

You can answer calls simply by lifting the handset off the base unit. You do not need to press [☛]. To turn this feature on, see page 25.

### Adjusting the ringer volume when receiving a call

Press [▲] or [▼].

### Using the base unit

- 1 [SP-PHONE]
  - The called line is automatically selected. To change the line selection mode, see page 15.
  - You can also answer the call by pressing [LINE 1] or [LINE 2].
- 2 When finished talking, press [SP-PHONE].

### Adjusting the ringer volume when receiving a call

Press [▲] or [▼].

- To turn the ringer volume off, press and hold [▼] until the beep sounds.

### Useful features during a call

#### Hold

This feature allows you to put an outside call on hold.

##### Handset

- 1 Press [HOLD] during an outside call.
- 2 Press [HOLD] again.
  - To release the hold, press [LINE1] or [LINE2] that is flashing on the handset.

##### Base unit

Press [HOLD] during an outside call.

- To release the hold, press [LINE 1] or [LINE 2] that is flashing on the base unit.

#### Note:

- For handset and base unit:
  - If a call is kept on hold for more than 9 minutes, an alarm tone starts to sound. After 1 additional minutes on hold, the call is disconnected.

#### Mute

While mute is turned on, you will be able to hear the other party, but the other party will not be able to hear you.

##### Handset

To mute your voice, press [C/☒].

- To return to the conversation, press [C/☒] again.

## ☞ Making/Answering Calls

### Base unit

To mute your voice, press **[MUTE]**.

- The speakerphone indicator flashes.
- To return to the conversation, press **[MUTE]** again.

### Recall/Flash

Pressing **[R/FLASH]** on the handset or **[FLASH/RECALL]** on the base unit allows you to use special features of your host PBX such as transferring an extension call, or accessing optional telephone services.

#### Note:

- To change the recall/flash time, see page 29.

### Temporary tone dialling (for rotary/pulse service users)

You can temporarily switch the dialling mode to tone when you need to access touch-tone services (e.g., telephone banking services).

- 1 Make a call.
- 2 Press **[\*]** when prompted to enter your code or PIN, then press the appropriate dial keys.

#### Note:

- The dialling mode will return to pulse when you hang up.

### Handset voice enhancer

You can change the tone quality of the receiver while you are on a call.

- 1 Press **[M]** during a call.
- 2 **[▲]/[▼]**: "Voice Enhancer" → **OK**
- 3 **[▲]/[▼]**: "High Tone" or "Low Tone" → **OK**
  - **☞** is displayed.

### Handset key lock

The handset can be locked so that no calls or settings can be made. Incoming calls can be answered, but all other functions are disabled while key lock is on.

To turn key lock on, press **[M]** (middle soft key) for about 2 seconds.

- **☞** is displayed.
- To turn key lock off, press **[M]** (middle soft key) for about 2 seconds.

#### Note:

- Calls to emergency numbers cannot be made until key lock is turned off.

### Recording a telephone conversation (Handset)

#### Important:

- Before recording a conversation, you should inform the other party that the conversation will be recorded.

- 1 Press **[M]** during an outside call.
- 2 **[▲]/[▼]**: "Record Call" → **OK**
- 3 To stop recording, press **[M]**.

#### Note:

- The conversation will be recorded on line 1 or line 2 depending on which line you use.
- To listen to the recorded conversation, see page 38.

### Call share

This feature allows a third person to join an existing outside call.

#### Handset

To join the conversation, press **[LINE1]** or **[LINE2]** to select the line that is being used by another extension for an outside call.

## Making/Answering Calls

### Base unit

To join the conversation, press **[LINE 1]** or **[LINE 2]** to select the line that is being used by another extension for an outside call.

### Call privacy

Call privacy allows you to prevent other users from joining your conversations with outside callers. To allow other users to join your conversations, leave this feature off. The default setting is "Off".

### Handset

- 1 Press **[MUTE]** during an outside call.
- 2 **[▲]/[▼]**: "Privacy" → **OK**
- 3 **[▲]/[▼]**: "On" or "Off" → **OK**
  - When this feature is turned on, **☎** is displayed.

### Note:

- This feature will turn off after you hang up the call.

## Using the other line during a call

You can use the other line in the following ways:

- When a call is being received on the other line during a conversation, the interrupt tone will sound. **L1** or **L2** on the handset, or the line 1 or line 2 indicator on the base unit will flash rapidly. You can answer the 2nd call while holding the 1st call.
- During an outside call, you can also make a call using the other line by holding the 1st call.

### Handset

**Example:** If you are using line 1

- 1 Press **[HOLD]** 2 times to put the 1st call (line 1) on hold.
- 2 Press **[LINE2]** to make or answer a 2nd call.
  - To hold the 2nd call, press **[HOLD]** 2 times.
- 3 To return to the 1st call (line 1), press **[LINE1]**.

### Note:

- If you subscribe to Caller ID, the 2nd caller's information is displayed when a call is being received on the other line (page 33).

### Base unit

**Example:** If you are using line 1

- 1 Press **[HOLD]** to put the 1st call (line 1) on hold.
- 2 Press **[LINE 2]** to make or answer a 2nd call.
  - To hold the 2nd call, press **[HOLD]**.
- 3 To return to the 1st call (line 1), press **[LINE 1]**.

## ☐ Phonebook

### Handset phonebook

The handset phonebook allows you to make calls without having to dial manually. You can add 200 names and phone numbers to the handset phonebook, assign each handset phonebook entry to the desired category.

#### Adding entries

- 1 [☐] → [☐]
- 2 [▲]/[▼]: "New Entry" → **OK**
- 3 Enter the party's name (16 characters max.; page 49). → **OK**
- 4 Enter the party's phone number (24 digits max.). → **OK**
- 5 [▲]/[▼]: Select the desired category. → **OK**
- 6 [▲]/[▼]: "Save" → **OK** → [☑]

#### Categories

Categories can help you find entries in the handset phonebook quickly and easily. When adding an entry to the handset phonebook, you can assign it to the desired category. You can change the names of categories assigned for handset phonebook entries ("Friends", "Family", etc.) and then search for handset phonebook entries by category. Additional category features are available for Caller ID subscribers (page 33).

#### Changing category names

- 1 [☐] → [☐]
- 2 [▲]/[▼]: "Category" → **OK**
- 3 [▲]/[▼]: Select the desired category. → **OK**

- 4 [▲]/[▼]: "Category Name" → **OK**
- 5 Edit the name (10 characters max.; page 49). → **OK** → [☑]

### Finding and calling a handset phonebook entry

#### Scrolling through all entries

- 1 [☐]
- 2 [▲]/[▼]: Select the desired entry.
- 3 [↶]
  - You can also make a call by pressing [☑], then pressing [LINE1] or [LINE2].

#### Searching by first character (index search)

- 1 [☐]
- 2 Press the dial key ([0] to [9]) which contains the character you are searching for (page 49).
  - Press the same dial key repeatedly to display the first entry corresponding to each letter located on that dial key.
  - If there is no entry corresponding to the letter you selected, the next entry will be displayed.
  - To change the character entry mode:
    - [☑] → [▲]/[▼]: "Index Search" → **OK** → [▲]/[▼]: Select the character entry mode. → **OK**
- 3 [▲]/[▼]: Scroll through the phonebook if necessary.
- 4 [↶]
  - You can also make a call by pressing [☑], then pressing [LINE1] or [LINE2].

**Phonebook**

**Searching by category**

- 1 [☐] → [📞]
- 2 [▲]/[▼]: "Category Search" → **OK**
- 3 [▲]/[▼]: Select the category you want to search. → **OK**
  - If you select "All", the unit will end the category search.
- 4 [▲]/[▼]: Scroll through the phonebook if necessary.
- 5 [↶]
  - You can also make a call by pressing [📞], then pressing [LINE1] or [LINE2].

**Editing entries**

- 1 Find the desired entry (page 22). → [📞]
- 2 [▲]/[▼]: "Edit" → **OK**
- 3 Edit the name if necessary (16 characters max.; page 49). → **OK**
- 4 Edit the phone number if necessary (24 digits max.). → **OK**
- 5 [▲]/[▼]: Select the desired category. → **OK**
- 6 [▲]/[▼]: "Save" → **OK** → [📞]

**Erasing entries**

**Erasing an entry**

- 1 Find the desired entry (page 22). → [📞]
- 2 [▲]/[▼]: "Erase" → **OK**
- 3 [▲]/[▼]: "Yes" → **OK** → [📞]

**Erasing all entries**

- 1 [☐] → [📞]
- 2 [▲]/[▼]: "Erase All" → **OK**
- 3 [▲]/[▼]: "Yes" → **OK**
- 4 [▲]/[▼]: "Yes" → **OK** → [📞]

**Chain dial**

This feature allows you to dial phone numbers in the handset phonebook while you are on a call. This feature can be used, for example, to dial a calling card access number or bank account PIN that you have stored in the handset phonebook, without having to dial manually.

- 1 While on a call, press [☐].
- 2 [▲]/[▼]: Select the desired entry.
- 3 Press **OK** to dial the number.



**Note:**

- If you are using this phone in pulse dialling mode, you may need to press [✳] to change the dialling mode to tone before chain dialling. When adding entries to the handset phonebook, we recommend adding [✳] to the beginning of phone numbers you wish to chain dial (page 22).

**Handset Settings**

**Handset settings**

To customise the handset:

- 1  (middle soft key)
- 2 Select  by pressing [**▲**], [**▼**], [**←**], or [**→**]. → **OK**
- 3 Press [**▲**] or [**▼**] to select the desired item in the handset settings menu. → **OK**
- 4 Press [**▲**] or [**▼**] to select the desired item in the sub-menu. → **OK**
  - In some cases, you may need to select from a second sub-menu. → **OK**
- 5 Press [**▲**] or [**▼**] to select the desired setting. → **OK**
  - This step may vary depending on the feature being programmed.
  - To exit the operation, press [**✕**].

**Note:**

- The current item or setting is highlighted on the display.

Menu	Sub-menu (default setting)	Sub-menu 2 (default setting)
Time Settings	Set Date & Time page 15	—
	Alarm page 27	—
Ringer Setup	Ringer Volume For handset	Line1 (Maximum) <sup>*1</sup>
		Line2 (Maximum) <sup>*1</sup>
	Ext. Ringtone For outside calls	Line1 ("Ringtone 1") <sup>*2, *3</sup>
		Line2 ("Ringtone 2") <sup>*2, *3</sup>
	Int. Ringtone For intercom calls ("Ringtone 3") <sup>*3</sup>	—
	Night Mode	Start/End (23:00/06:00): page 27
		On/Off ("Off"): page 28
		Ring Delay ("60 sec."): page 28
Select Category page 28		



**Handset Settings**

Menu	Sub-menu (default setting)	Sub-menu 2 (default setting)
Display Setup	Wallpaper ("Wallpaper1")	—
	Display Colour ("Colour1")	—
	Standby Display ("Off") <sup>*4</sup>	—
	Select Language ("English") <sup>*5</sup> : page 14	—
	Contrast ("Contrast 3")	—
Register H.set page 43	—	—
Other Options	New Msg. Alert ("Off") <sup>*6</sup>	—
	Keytones ("On")	—
	Line Select ("Auto"): page 15	—
	Auto Talk ("Off"): page 19 <sup>*7</sup>	—

\*1 When the ringer volume is turned off,  $\mathcal{L}$  is displayed followed by the selected line number(s) and the handset does not ring for outside calls.

However, even when the ringer volume for both lines is turned off, the handset will still ring:

- at the minimum level for alarm and intercom calls
- at the maximum level for paging

\*2 If you select one of the melody ringtones, the ringtone will continue to sound for several seconds if the caller hangs up before you answer. You may hear a dial tone or no one on the line when you answer a call.

\*3 The preset melodies in this product are used with permission of © 2006 Copyrights Vision Inc.

\*4 "off": Displays the current date and time only.

"Handset Number": Displays the handset number such as "[1]".

\*5 The default display language will be as follows if you select the following regional codes when changing the unit's region setting (page 31):

"Türkiye" = "Türkçe"  
 "Slovensko" = "Slovenčina"  
 "Česká republika" = "čeština"  
 "Other" = "English"

### **Handset Settings**

---

\*6 This feature alerts you when new answering messages have been recorded (page 36).

The message indicator on the handset flashes until you have listened to all new messages.

While message alert is on, battery operating time is shortened (page 13).



\*7 If you set the line selection mode from "Auto" to "Line1" or "Line2" (page 15), the auto talk feature will function for that line only. If the other line receives a call, the auto talk feature does not function.

**Handset Settings**


**Special instructions for time settings**

**Alarm**

An alarm will sound for 3 minutes at the set time once or daily. Set the date and time beforehand (page 15).

- 1  (middle soft key) →  → **OK**
- 2 **[▲]/[▼]**: "Time Settings" → **OK**
- 3 **[▲]/[▼]**: "Alarm" → **OK** 2 times
- 4 **[▲]/[▼]**: Select an alarm mode. → **OK**

<p><b>"Off"</b> Turns alarm off. Press <b>OK</b> again, then press <b>[*0]</b> to finish.</p>
<p><b>"Once"</b> The alarm sounds once at the set time. Enter the desired date and month.</p>
<p><b>"Daily"</b> An alarm sounds daily at the set time.</p>

- 5 Enter the desired hour and minute. → **OK**
- 6 **[▲]/[▼]**: Select the desired ringtone. → **OK**
- 7 **[▲]/[▼]**: "Save" → **OK** → **[\*0]**
  - When the alarm is set,  is displayed.

**Note:**

- To stop the alarm, press any dial key.
- The ringer volume for alarm follows the higher volume level of the 2 lines (page 24).
- When in talk or intercom mode, the alarm will not sound until the call has ended.

- If you select "Once", the setting will change to "Off" after the alarm sounds.

**Special instructions for ringer setup**

**Night mode**



Night mode allows you to select a block of time during which the handset will not ring for outside calls. This feature is useful for times when you do not want to be disturbed, for example, while sleeping.

Using the handset phonebook's category feature (page 22), you can also select categories of callers whose calls will override night mode and ring the handset (Caller ID subscribers only). Set the date and time beforehand (page 15).

**Note:**




- We recommend turning the base unit ringer off for line 1 and line 2 (page 29) in addition to turning the night mode feature on.

**Setting the start and end time**

- 1  (middle soft key) →  → **OK**
- 2 **[▲]/[▼]**: "Ringer Setup" → **OK**
- 3 **[▲]/[▼]**: "Night Mode" → **OK**
- 4 **[▲]/[▼]**: "Start/End" → **OK**
- 5 Enter the desired hour and minute you wish to start this feature.
- 6 Enter the desired hour and minute you wish to end this feature.
- 7 **OK** → **[\*0]**



## Handset Settings

### Turning night mode on/off

- 1  (middle soft key) →  → **OK**
- 2 **[▲]/[▼]**: "Ringer Setup" → **OK**
- 3 **[▲]/[▼]**: "Night Mode" → **OK**
- 4 **[▲]/[▼]**: "On/Off" → **OK**
- 5 **[▲]/[▼]**: "On" or "Off" → **OK**  
→ **[\*0]**
  - When the night mode is set,  is displayed.

### Setting the ring delay



This setting allows the handset to ring during night mode if the caller waits long enough. After the selected amount of time passes, the handset will ring. If you select "No Ringing", the handset will never ring during night mode.

- 1  (middle soft key) →  → **OK**
- 2 **[▲]/[▼]**: "Ringer Setup" → **OK**
- 3 **[▲]/[▼]**: "Night Mode" → **OK**
- 4 **[▲]/[▼]**: "Ring Delay" → **OK**
- 5 **[▲]/[▼]**: Select the desired setting.  
→ **OK** → **[\*0]**

#### Note:

- When the answering system answers the call, this feature does not work.

### Selecting categories to bypass night mode

- 1  (middle soft key) →  → **OK**
- 2 **[▲]/[▼]**: "Ringer Setup" → **OK**
- 3 **[▲]/[▼]**: "Night Mode" → **OK**
- 4 **[▲]/[▼]**: "Select Category" → **OK**
- 5 Press the desired category numbers. → **OK**
  - The selected category number will flash.



- To cancel a selected category number, press the number again. The number will stop flashing.

### 6 **[\*0]**

 **Base Unit Settings**

## Base unit settings

To customise the base unit using the handset:

- 1  (middle soft key)
- 2 Select  by pressing [**▲**], [**▼**], [**◀**], or [**▶**]. → **OK**
- 3 Press [**▲**] or [**▼**] to select the desired item in the base unit settings menu. → **OK**
- 4 Press [**▲**] or [**▼**] to select the desired item in the sub-menu. → **OK**
  - In some cases, you may need to select from a second sub-menu. → **OK**
- 5 Press [**▲**] or [**▼**] to select the desired setting. → **OK**
  - This step may vary depending on the feature being programmed.
  - To exit the operation, press [**✕**].

**Note:**

- The current item or setting is highlighted on the display.

Menu	Sub-menu (default setting)	Sub-menu 2 (default setting)
Ringer Setup	Ringer Volume For base unit	Line1 (Medium) <sup>*1</sup>
		Line2 (Medium) <sup>*1</sup>
	Ext. Ringtone For outside calls	Line1 ("Ringtone 1")
		Line2 ("Ringtone 2")
Call Options	Dial Mode ("Tone"): page 15	—
	Recall/Flash Recall/Flash time <sup>*2</sup>	Line1 ("600 msec." <sup>*3</sup> )
		Line2 ("600 msec." <sup>*3</sup> )
	Call Restrict page 31	Line1
Line2		

 **Base Unit Settings**

Menu	Sub-menu (default setting)	Sub-menu 2 (default setting)
Other Options	<b>Line Select</b> ("Auto"): page 15	—
	<b>Base Unit PIN</b> Change base unit PIN ("0000").*4 – Enter the current 4-digit base unit PIN.*5 – Enter the new 4-digit base unit PIN. → <b>OK</b> → [ <b>7</b> <b>0</b> ]	—
	<b>Repeater Mode</b> ("Off"): page 44	—
	<b>Country</b> Change the unit's region setting ("Other"): page 31	—

\*1 When the ringer volume is turned off, L1~~☒~~ and/or L2~~☒~~ is displayed and the base unit does not ring for outside calls.  
However, when the ringer volume for both lines is turned off, the base unit will still ring at the minimum level for intercom calls.

\*2 Change the recall/flash time, if necessary, depending on the requirements of your service provider/telephone company or PBX.

\*3 When using the unit in Czech/Slovakia/Turkey, select the recall/flash time as follows:

Czech/Slovakia = "100 msec."

Turkey = "200 msec."

If you change the unit's region setting/reset the base unit, the recall/flash time will be reset to the default setting. In this case, select the recall/flash time again.

\*4 If you change the PIN, please make note of your new PIN. The unit will not reveal the PIN to you.



\*5 If you forget your PIN, consult your nearest Panasonic service centre.

 **Base Unit Settings**

## Special instructions for call options

### Setting call restriction

The dialling of certain numbers can be restricted. You can assign up to 6 phone numbers for each line, and select which unit (the base unit and/or selected handsets) to be restricted. Storing area codes will prevent the restricted units from dialling any phone number in that area code.

- 1  (middle soft key) →  → **OK**
- 2 **[▲]/[▼]**: "Call Options" → **OK**
- 3 **[▲]/[▼]**: "Call Restrict" → **OK**
- 4 Enter the base unit PIN (default: "0000").
  - If you forget your PIN, consult your nearest Panasonic service centre.
- 5 **[▲]/[▼]**: "Line1" or "Line2" → **OK**
  - The base unit extension number "0" and the extension numbers of all registered handsets will be displayed.
- 6 Set which extensions will be restricted by pressing the desired number.
  - Flashing numbers indicate call restriction is turned on for the corresponding extension.
  - To turn call restriction off for an extension, press the number again. The number will stop flashing.
- 7 **OK**
- 8 **[▲]/[▼]**: Select a memory location. → **OK**

- 9 Enter the phone number or area code to be restricted (8 digits max.). → **OK** → **[\*0]**
  - To erase a restricted number, press **[C/⊗]**.

## Special instructions for other options

### Changing the unit's region setting/Resetting the base unit



- 1  (middle soft key) →  → **OK**
- 2 **[▲]/[▼]**: "Other Options" → **OK**
- 3 **[▲]/[▼]**: "Country" → **OK**
- 4 **[▲]/[▼]**: Select the desired country. → **OK**
  - "Türkiye" = Turkey
  - "Slovensko" = Slovakia
  - "Česká republika" = Czech
  - "Other" = countries except Turkey, Slovakia and Czech
- 5 **[▲]/[▼]**: "Yes" → **OK** → **[\*0]**

**Note:**

- The following items will be deleted or reset to their default settings:
  - Settings listed on page 29, 41
  - Caller list
- The following items will be retained:
  - Date and time
  - Repeater mode
  - Recordings, including your greeting message, caller messages, and recorded conversations
- If you select the desired country in step 4, the following default settings

### **Base Unit Settings**

will be changed for the selected country's default settings:

- Display language (page 25)
- Number of rings to turn on the answering system remotely
- According to your country selection in step 4, the answering system announcement language changes as follows:
  - "Türkiye" = Turkish
  - "Česká republika" = Czech
  - "Slovensko" and "Other" = English
- After changing the unit's region setting/resetting the base unit, certain icons displayed on the base unit will disappear for a moment and  will flash on the handset momentarily. This is normal. The handset can be used once  stops flashing.



**Caller ID Service**

**Using Caller ID service**

**Important:**

- This unit is Caller ID compatible. To use Caller ID features (such as displaying caller phone numbers), you must subscribe to Caller ID service. Consult your service provider/telephone company for details.

**Caller ID features**

When an outside call is received, the caller's phone number will be displayed.

- Phone numbers of the last 50 callers will be logged in the caller list.
- While listening to a message recorded by the answering system using the handset, you can call back the caller without having to dial the phone number (page 39).
- When caller information is received and it matches a phone number stored in the unit's phonebook:
  - The stored name will be displayed and logged in the caller list.
  - The handset will use the display colour and ringtone assigned to the caller's category.
- If the unit is connected to a PBX system, you may not receive the caller information.
- When the caller dialed from an area which does not provide Caller ID service, "Out of Area" will be displayed.
- When the caller requested not to send caller information, either no information or "Private Caller" will be displayed.

**Missed calls**

If a call is not answered, the unit treats the call as a missed call. **↵** and the

number of missed calls are shown on the display. This lets you know if you should view the caller list to see who called while you were out.

**Call Waiting Caller ID display (Turkey only)**

If you subscribe to both Caller ID and Call Waiting with Caller ID services, the 2nd caller's information is displayed after you hear a Call Waiting tone. You can answer the 2nd call, keeping the 1st call on hold.

**Note:**

- Please contact your service provider/telephone company for details and availability of this service in your area.

**Category features for handset phonebook**

Categories can help you identify who is calling by using different ringtones and display colours for different categories of callers. When adding an entry to the handset phonebook you can assign it to the desired category (page 22). When a call is received from a caller assigned to a category, the category's display colour and ringtone you selected are used.

**Changing category ringtones**

If you select "Ext. Ringtone", the unit will use the external ringtone you set for each line on page 24 when calls from this category are received. The default setting is "Ext. Ringtone".

- 1 **[□□]** → **[☰]**
- 2 **[▲]/[▼]**: "Category" → **OK**
- 3 **[▲]/[▼]**: Select a category. → **OK**
- 4 **[▲]/[▼]**: Select the current setting of the category ringtone. → **OK**
- 5 **[▲]/[▼]**: Select the desired ringtone. → **OK** → **[🔊]**

## Caller ID Service

### Changing category display colours

If you select "Display Colour", the unit will use the display colour you set on page 25 when calls from this category are received. The default setting is "Display Colour".

- 1 [ ] → [ ]
- 2 [▲]/[▼]: "Category" → OK
- 3 [▲]/[▼]: Select a category. → OK
- 4 [▲]/[▼]: Select the current setting of the category colour. → OK
- 5 [▲]/[▼]: Select the desired colour. → OK → [X] [O]

## Caller list

### Viewing the caller list and calling back

- 1 [ ] (middle soft key) → [ ] → OK
- 2 Press [▼] to search from the most recent call, or press [▲] to search from the oldest call.
  - [1] and [2] indicate which line the caller information was received from.
  - If the item has already been viewed or answered, "✓" is displayed, even if it was viewed or answered using another handset.
- 3 [↵]
  - Automatically uses the line you set in line selection mode (page 15) to call back. When the line selection mode is set to "Auto", the indicated line ([1] or [2]) is used for the call. If the indicated line is already being used or you want to select the other line, press [LINE1] or [LINE2].

### Editing a caller's phone number before calling back

- 1 [ ] (middle soft key) → [ ] → OK
- 2 [▲]/[▼]: Select the desired entry. → [ ]
- 3 [▲]/[▼]: "Edit and Call" → OK
- 4 Edit the number.
  - Press dial key ([0] to [9]) to add, [C/X] to delete.
- 5 [↵]
  - If the indicated line is already being used or you want to select the other line, press [ ] then select [LINE1] or [LINE2].

### Erasing caller information


- 1 [ ] (middle soft key) → [ ] → OK
- 2 [▲]/[▼]: Select the desired entry. → [ ]
- 3 [▲]/[▼]: "Erase" or "Erase All" → OK
- 4 [▲]/[▼]: "Yes" → OK → [X] [O]

### Storing caller information into the handset phonebook


- 1 [ ] (middle soft key) → [ ] → OK
- 2 [▲]/[▼]: Select the desired entry. → [ ]
- 3 [▲]/[▼]: "Add Phonebook" → OK
- 4 Continue from step 3, "Adding entries", page 22.

## Voice mail service

Voice mail is an automatic answering service offered by your service provider/telephone company. If you subscribe to this service, your service provider/telephone company's voice mail system will answer calls for you when you are unavailable to answer the phone or when your line is busy. Messages are recorded by your service provider/telephone company, not your telephone.

When you have new messages,  will be displayed on the handset followed by the line number(s) that received the messages. Please consult your service provider/telephone company for details of this service.

**Note:**

- If  still remains on the display even after you have listened to new messages, turn it off by pressing and holding **[C/ⓧ]** for 2 seconds.
- To use the voice mail service provided by your service provider/telephone company rather than the unit's answering system, turn off the answering system (page 36). For details, see page 42.



## Answering System Features

### Answering system

The answering system can answer and record calls for you when you are unavailable to answer the phone. You can also record phone conversations (page 20).

#### Important:

- Only 1 person can access the answering system (listen to messages, record a greeting message, etc.) at a time.
- When callers leave messages, the unit records the date and time of each message. Make sure the date and time have been set (page 15).

### Memory capacity

The total recording capacity (including your greeting message, caller messages, and recorded conversations) is about 40 minutes. A maximum of 64 messages can be recorded.

#### Note:

- If message memory becomes full:
  - “Answer Sys. Full” is shown on the handset display
  - **FULL** and the number of messages flash on the base unit display
  - **[MESSAGE]** on the base unit flashes rapidly

### Turning the answering system on/off

#### Base unit

- **To turn on:**  
Press **[LINE SELECT]** repeatedly to select the desired line(s). → **[ANSWER ON]**

- **[ANSWER ON]** lights up.

- **To turn off:**  
Press **[ANSWER ON]**.

- **[ANSWER ON]** turns off.

#### Handset

- **To turn on:**

- 1 **[MIDDLE SOFT KEY]** (middle soft key) → **[OK]** → **[OK]**
- 2 Press **[MIDDLE SOFT KEY]** repeatedly to select the desired line(s).
- 3 **[▲]/[▼]**: “Answer On” → **[OK]** → **[MIDDLE SOFT KEY]**

- **To turn off:**

- 1 **[MIDDLE SOFT KEY]** (middle soft key) → **[OK]** → **[OK]**
- 2 **[▲]/[▼]**: “Answer Off” → **[OK]** → **[MIDDLE SOFT KEY]**

#### Note:

- When the answering system is turned on, **[OK]** is displayed followed by the selected line number(s).

### Greeting message

When the unit answers a call, callers are greeted by a greeting message. Greeting messages can be recorded in either of the following ways:

- for line 1 and line 2 separately
- for line 1 and line 2 using a shared greeting

### Recording a greeting message





You can record your own greeting message (50 seconds max. for each greeting).

## Answering System Features

### Base unit

- 1 Press **[LINE SELECT]** repeatedly to select the desired line(s).
- 2 Press and hold **[GREETING]** for about 1 second.
  - Speak clearly about 20 cm away from the microphone.
- 3 Press **[STOP]** to stop recording.

### Handset

- 1  (middle soft key) →  → **OK**
- 2 Press  repeatedly to select the desired line(s).
- 3 **[▲]/[▼]**: "Record Greeting" → **OK**
  - Hold the handset about 20 cm away and speak clearly into the microphone.
- 4 Press  to stop recording.
- 5 **[📞]**

### Using a pre-recorded greeting message




If you erase or do not record your own greeting message, the unit plays a pre-recorded greeting message for callers and asks them to leave messages. If the message recording time (page 42) is set to "Greeting Only", caller messages will not be recorded and the unit will play a different pre-recorded greeting message asking callers to call again.

### Playing back the greeting message

#### Base unit

- 1 Press **[LINE SELECT]** repeatedly to select the desired line(s).
- 2 **[GREETING]**

### Handset

- 1  (middle soft key) →  → **OK**
- 2 Press  repeatedly to select the desired line(s).
- 3 **[▲]/[▼]**: "Play Greeting" → **OK**
- 4 **[📞]**




### Erasing the greeting message

If you erase your own greeting message, the unit will play a pre-recorded greeting message for callers.

#### Base unit

- 1 Press **[LINE SELECT]** repeatedly to select the desired line(s).
- 2 Press **[GREETING]**, then press **[ERASE]** during playback.

#### Handset

- 1  (middle soft key) →  → **OK**
- 2 Press  repeatedly to select the desired line(s).
- 3 **[▲]/[▼]**: "Erase Message" → **OK**
- 4 **[▲]/[▼]**: "Erase Greeting" → **OK**
- 5 **[▲]/[▼]**: "Yes" → **OK** → **[📞]**

## Answering System Features

### Listening to messages

#### Listening to new/all messages

**Note:**

- When [MESSAGE] on the base unit flashes rapidly, the message memory is full ("Memory capacity", page 36).


#### Base unit



When you have new messages, [MESSAGE] flashes.  
Press [MESSAGE].

- If new messages have been recorded, the base unit plays back only new messages.
- If there are no new messages, the base unit plays back all messages.

#### Handset

When you have new messages:

- the message indicator flashes if the message alert feature (page 25) has been turned on
-  is displayed on the handset with the total number of new messages




- 1  (middle soft key) →  → **OK**
- 2 **[▲]/[▼]**: "Play New Msg." or "Play All Msg." → **OK**

#### Playing back messages for the desired line(s)

#### Base unit

Press [LINE SELECT] repeatedly to select the desired line(s), then press [MESSAGE].

#### Handset

- 1  (middle soft key) →  → **OK**
- 2 Press  repeatedly to select the desired line(s).
- 3 **[▲]/[▼]**: "Play New Msg." or "Play All Msg." → **OK**

### Operations during playback

■ **To adjust the speaker volume:**  
Press **[▲]** or **[▼]**.

■ **To repeat a message:**


- for the base unit, press **[◀▶]**
- for the handset, press **[↶]**

If pressed within the first 5 seconds of a message, the previous message will be played.


■ **To skip a message:**

- for the base unit, press **[▶▶]**
- for the handset, press **[▶]**

■ **To stop a message:**

- for the base unit, press **[STOP]**
- for the handset, press 

■ **To erase a message:**

- for the base unit, press **[ERASE]**
- for the handset, press  → **[▲]/[▼]**: "Yes" → **OK**



### Erasing all messages

#### Erasing all messages for both line 1 and line 2

#### Base unit

- 1 Press **[ERASE]**.
  - **LINE 1** and **LINE 2** is displayed.
- 2 Press **[ERASE]** again.

#### Handset

- 1  (middle soft key) →  → **OK**

## Answering System Features

- 2 **[▲]/[▼]: "Erase Message" → OK**
- 3 **[▲]/[▼]: "Erase All" → OK**
  - **[L1]** and **[L2]** is displayed.
- 4 **[▲]/[▼]: "Yes" → OK → [↶] [⊙]**

### Erasing all messages for the desired line(s)

#### Base unit

Press **[LINE SELECT]** repeatedly to select the desired line(s), then press **[ERASE]** 2 times.

#### Handset

- 1 **[MFK]** (middle soft key) → **[L1]** → **OK**
- 2 Press **[L1]** repeatedly to select the desired line(s).
- 3 **[▲]/[▼]: "Erase Message" → OK**
- 4 **[▲]/[▼]: "Erase All" → OK**
- 5 **[▲]/[▼]: "Yes" → OK → [↶] [⊙]**

### Calling back using the handset (Caller ID subscribers only)

If caller information was received for the call, you can call the caller back while listening to a message.

- 1 Press **[MFK]** during playback.
- 2 **[▲]/[▼]: "Call Back" → OK**
- 3 **[↶]**
  - Automatically uses the line you set in line selection mode (page 15) to call back. When the line selection mode is set to "Auto", the indicated line (**[L1]** or **[L2]**) is used for the call. If the indicated line is already being used or you want to select the other line, press **[LINE1]** or **[LINE2]**.

### Editing the number before calling back

- 1 Press **[MFK]** during playback.
- 2 **[▲]/[▼]: "Edit and Call" → OK**
- 3 Edit the number.
- 4 **[↶]**
  - If the indicated line is already being used or you want to select the other line, press **[↶]** then press **[LINE1]** or **[LINE2]**.

### Direct command operation using the handset

You can operate the answering system by pressing dial keys, rather than navigating through the menus.

To use the following commands:

**[MFK]** (middle soft key) → **[L1]** → **OK**  
 → Press **[L1]** repeatedly to select the desired line(s) if necessary.

Key	Operation
<b>[1]</b>	Repeat message (during playback) <sup>*1</sup>
<b>[2]</b>	Skip message (during playback)
<b>[3]</b>	Enter the "Settings" menu
<b>[4]</b>	Play new messages
<b>[5]</b>	Play all messages
<b>[6]</b>	Play greeting message
<b>[7][6]</b>	Record greeting message
<b>[9]</b>	Stop (recording, playback)

### Answering System Features

Key	Operation
[0]	Turn answering system off
[*][4]	Erase currently playing message
[*][5]	Erase all messages
[*][6]	Erase greeting message
[#][1] → [8] <sup>*2</sup>	Turn answering system on for line 1 only
[#][2] → [8] <sup>*2</sup>	Turn answering system on for line 2 only
[#][0] → [8] <sup>*2</sup>	Turn answering system on for both line 1 and line 2

\*1 If pressed within the first 5 seconds of a message, the previous message will be played.

\*2 When you press a line selection number ([#][1], [#][2], or [#][0]), the selected line(s) is announced, then press [8].

### Remote operation

Using a touch-tone phone, you can call your phone number from outside and access the unit to listen to messages or change answering system settings.

**Important:**

- In order to operate the answering system remotely, you must first turn on remote operation by setting a remote access code. This code must be entered each time you operate the answering system remotely.

### Turning remote operation on

A 3-digit remote access code must be entered when operating the answering system remotely. This code prevents

unauthorised parties from listening to your messages remotely.

- 1 (middle soft key) → → **OK**
- 2 [▲]/[▼]: "Settings" → **OK**
- 3 [▲]/[▼]: "Remote Code" → **OK**
- 4 To turn on remote operation, enter a 3-digit remote access code.
  - To turn off remote operation, press [\*].
- 5 **OK** → []

### Using the answering system remotely

- 1 Dial your phone number from a touch-tone phone.
- 2 After the greeting message starts, enter your remote access code.
  - The unit will announce the number of new messages.
- 3 Enter remote commands.

**Note:**

- You can hang up at any time.

### Remote commands

- 1 Select the desired line(s) while you are accessing the answering system if necessary.
  - For line 1: [#][1]
  - For line 2: [#][2]
  - For line 1 and line 2: [#][0]
- 2 Press the desired dial keys.

Key	Operation
[1]	Repeat message (during playback) <sup>*1</sup>
[2]	Skip message (during playback)
[4]	Play new messages
[5]	Play all messages



### Answering System Features

Key	Operation
[6]	Play greeting message
#[1][7]	Record a greeting message for line 1 only
#[2][7]	Record a greeting message for line 2 only
#[0][7]	Record a common greeting message for both line 1 and line 2
#[1][8]	Turn answering system on for line 1 only
#[2][8]	Turn answering system on for line 2 only
#[0][8]	Turn answering system on for both line 1 and line 2
[9]	Stop (recording, playback)
[0]	Turn answering system off
*[4]	Erase currently playing message
*[5]	Erase all messages
*[6]	Erase greeting message (during greeting message playback)
*[#]	End remote operation (or hang up)

\*1 If pressed within the first 5 seconds of a message, the previous message will be played.

#### Turning on the answering system remotely

If the answering system is turned off, you can turn it on remotely by calling the selected line in "Turning the answering system on/off", page 36.

- 1 Dial your phone number from a touch-tone phone.
- 2 Let the phone ring 9 times.
  - **Turkey:**  
If you change the unit's region setting to "Türkiye" (page 31), the phone rings 10 times.
  - A long beep will be heard.
- 3 Enter your remote access code within 10 seconds after the long beep.
  - The greeting message is played back.
  - You can hang up, or enter your remote access code again and begin remote operation.

#### Skipping the greeting message to leave a message

You can leave a message just as any outside caller can. Call your phone number from a touch-tone phone. When the answering system picks up, press [\*] to skip the greeting message and record your message after the beep.

#### Answering system settings

If the base unit is reset to its default settings (page 31), the following answering system-related settings will be reset.

Setting (default setting)	Page
Answering system on/off (Answer On)	36
Remote access code (—)	40
Number of rings (4 Rings)	42



## ☒ Answering System Features

Setting (default setting)	Page
Caller's recording time (3 Minutes)	42
Call screening (On)	42

### Number of rings

You can change the number of times the phone rings before the unit answers calls. You can select 2 to 6 rings, or "Auto".

"Auto": The unit answers after 2 rings when new messages have been recorded, and after 5 rings when there are no new messages. If you call your phone from outside to listen to new messages (page 40), you will know that there are no new messages when the phone rings for the 3rd time. You can then hang up without being charged for the call.

- 1  (middle soft key) →  → **OK**
- 2 **[▲]/[▼]**: "Settings" → **OK**
- 3 **[▲]/[▼]**: "Number of Rings" → **OK**
- 4 **[▲]/[▼]**: Select the desired setting. → **OK** → **[↶⊙]**

### For voice mail service subscribers



Please note the following:

- To receive messages correctly with your voice mail service, we recommend that you do not use the unit's answering system. Make sure that the answering system is turned off (page 36).
- If you would rather use the unit's answering system than the voice mail service provided by your service provider/telephone company, ask your service provider/telephone company to deactivate your voice mail service.

If your service provider/telephone company cannot do this, set this unit's "Number of Rings" setting so that this unit's answering system answers calls before your service provider/telephone company's voice mail service tries to answer your calls. It is necessary to check the number of rings required to activate the voice mail service provided by your service provider/telephone company before changing this setting.



### Caller's recording time

You can change the maximum message recording time allotted to each caller, or set the unit to greet callers but not record messages.

- 1  (middle soft key) →  → **OK**
- 2 **[▲]/[▼]**: "Settings" → **OK**
- 3 **[▲]/[▼]**: "Recording Time" → **OK**
- 4 **[▲]/[▼]**: Select the desired setting. → **OK** → **[↶⊙]**

### Call screening

While a caller is leaving a message, you can screen the call through all unit speakers.

- 1  (middle soft key) →  → **OK**
- 2 **[▲]/[▼]**: "Settings" → **OK**
- 3 **[▲]/[▼]**: "Call Screening" → **OK**
- 4 **[▲]/[▼]**: "On" or "Off" → **OK** → **[↶⊙]**

### Multi-unit Operation

## Operating additional units

### Additional handsets


Up to 6 handsets can be registered to a single base unit.

#### Important:

- The additional handset model recommended for use with this unit is noted on page 4. If other model handset is used, certain operations (handset settings, base unit settings, etc.) may not be available.
- Additional handsets will give you the freedom to, for example, have an intercom call with another handset while a third handset is on an outside call.

## Registering a handset to the base unit



The supplied handset and base unit are pre-registered. When you purchase an additional handset, refer to the additional handset's installation manual for registration. If for some reason the handset is not registered to the base unit (for example,  $\Psi$  flashes even when the handset is near the base unit), register the handset.

- 1  (middle soft key) →  $\Psi$  → **OK**
- 2 **[▲]/[▼]**: "Register H.set" → **OK**
- 3 Press and hold **[INTERCOM]** on the base unit for about 3 seconds, until the registration tone sounds.

- If all registered handsets start ringing, press **[INTERCOM]** to stop, then repeat this step.
  - After pressing **[INTERCOM]**, the rest of this procedure must be completed within 90 seconds.
- 4 Wait until "Enter Base PIN" is displayed. → Enter the base unit PIN (default: "0000"). → **OK**
    - If you forget your PIN, consult your nearest Panasonic service centre.
    - When the handset has been registered successfully,  $\Psi$  will stop flashing. If the key tone is turned on (page 25), a confirmation tone will be heard.

### Deregistering a handset

A handset can cancel its own registration (or the registration of another handset) that is stored in the base unit. This will allow the base unit to "forget" the handset.

- 1  (middle soft key) →  → **OK**
- 2 Enter "335".
- 3 **[▲]/[▼]**: "Deregistration" → **OK**
  - The numbers of all handsets registered to the base unit are displayed.
- 4 Select the handset(s) you want to cancel, by pressing the desired handset number. → **OK**
  - The selected handset number(s) will flash.
  - To cancel a selected handset number, press the number again. The number will stop flashing.
- 5 **[▲]/[▼]**: "yes" → **OK**
  - A long beep will sound as each handset number disappears.

## Multi-unit Operation

- The handset does not beep when cancelling its own registration.

### 6 [↶⊙]

#### Increasing the range of the base unit

You can increase the signal range of the base unit by using a DECT repeater. Please use only the Panasonic DECT repeater noted on page 4. Consult your Panasonic dealer for details.

##### Important:

- Before registering the repeater to this base unit, you must turn the repeater mode on.
- Do not use more than one repeater at a time.

#### Setting the repeater mode

- 1 (middle soft key) → → **OK**
- 2 [▲]/[▼]: "Other Options" → **OK**
- 3 [▲]/[▼]: "Repeater Mode" → **OK**
- 4 [▲]/[▼]: "On" or "Off" → **OK** → [↶⊙]

##### Note:

- After turning repeater mode on or off, certain icons displayed on the base unit will disappear for a moment and will flash on the handset momentarily. This is normal. The handset can be used once stops flashing.

## Intercom

Intercom calls can be made:

- between a handset and the base unit
- between handsets

44

##### Note:

- You can locate a misplaced handset by paging it (handset locator).

## Making an intercom call

### Handset

- 1 [INT]
- 2 To page the base unit, press [0]. To page another handset, enter its extension number ([1] – [6]).
  - To stop paging, press [↶⊙].
- 3 When you finish talking, press [↶⊙].

### Base unit

- 1 [INTERCOM]
  - When only 1 handset is registered, the base unit pages the handset automatically.
- 2 To page a specific handset, enter its extension number ([1] – [6]). To page all handsets, press [0].
  - To stop paging, press [INTERCOM].
  - When you page all handsets, only the handset user who answers first can take the intercom call.
- 3 When you finish talking, press [SP-PHONE].

##### Note:

- When more than 2 handsets are registered, the base unit pages all handsets a few seconds after pressing [INTERCOM] in step 1.

## Answering an intercom call

### Handset

- 1 Press [↶] to answer the page.
- 2 When you finish talking, press [↶⊙].

### Multi-unit Operation

#### Base unit

- 1 Press **[INTERCOM]** to answer the page.
- 2 When you finish talking, press **[SP-PHONE]**.

**Note:**

- For handset and base unit:
  - The ringer volume for intercom calls follows the higher volume level of the 2 lines (page 24, 29).

### Transferring calls

Outside calls can be transferred between 2 people.

#### Handset

- 1 During an outside call, press **[INT]** to put the call on hold.
- 2 To page the base unit, press **[0]**. To page another handset, enter its extension number (**[1] – [6]**).
- 3 Wait for the paged party to answer.
  - If the paged party does not answer, press **[LINE1]** or **[LINE2]** that is flashing on the handset to return to the outside call.
- 4 To complete the transfer, press **[\*][0]**.

#### Base unit

- 1 During an outside call, press **[INTERCOM]** to put the call on hold.
  - When only 1 handset is registered, the base unit pages the handset automatically.
- 2 To page a specified handset, enter its extension number (**[1] – [6]**). To page all handsets, press **[0]**.

- When you page all handsets, only the handset user who answers first can take the transferred call.
- 3 Wait for the paged party to answer.
  - If the paged party does not answer, press the flashing **[LINE 1]** or **[LINE 2]** to return to the outside call.
- 4 To complete the transfer, press **[SP-PHONE]**.

**Note:**

- When more than 2 handsets are registered, the base unit pages all handsets a few seconds after pressing **[INTERCOM]** in step 1.

### Answering transferred calls

#### Handset

Press **[\*][0]** to answer the page.

**Note:**

- If the paging party hangs up before you answer the page, **L1** or **L2** flashes on the handset. Press **[LINE1]** or **[LINE2]** to take the transferred call.

#### Base unit

Press **[INTERCOM]** to answer the page.

**Note:**

- For handset and base unit:
  - After the paging party disconnects, you can talk to the outside caller.
- For base unit:
  - If the handset hangs up before you answer the page, the line 1 or line 2 indicator flashes on the base unit. Press **[LINE 1]** or **[LINE 2]** to take the transferred call.

## Multi-unit Operation

### Conference calls

3 people can establish a conference call.

#### Conference call with 2 outside calls

While you are talking with an outside caller, you can make or answer a 2nd call on the other line, and then combine the calls to establish a conference call.

##### Handset

- 1 During an outside call, press **[HOLD]** 2 times.
- 2 To answer a 2nd call, press **[LINE1]** or **[LINE2]**.  
To make a 2nd call, press **[LINE1]** or **[LINE2]**, then dial the phone number.
- 3 When the 2nd call is connected, press **[M]** to make a conference call.
  - To hang up only one line, press **[LINE1]** or **[LINE2]** for the party with which you want to continue talking.
  - To put both lines on hold, press **[HOLD]**. To talk with only one caller, press **[LINE1]** or **[LINE2]** for the party with which you want to continue talking. To resume both lines, press **[M]**.

##### Base unit

- 1 During an outside call, press **[HOLD]**.
- 2 To answer a 2nd call, press **[LINE 1]** or **[LINE 2]**.  
To make a 2nd call, press **[LINE 1]** or **[LINE 2]**, then dial the phone number.

- 3 When the 2nd call is connected, press **[CONF]** to make a conference call.
  - To hang up only one line, press **[LINE 1]** or **[LINE 2]** for the party with which you want to continue talking.
  - To put both lines on hold, press **[HOLD]**. To talk with only one caller, press **[LINE 1]** or **[LINE 2]** for the party with which you want to continue talking. To resume both lines, press **[CONF]**.

#### Conference call with an outside call and an intercom call

While you are talking with an outside caller, one more extension can join the conversation and establish a conference call.

##### Handset

- 1 During an outside call, press **[INT]** to put the call on hold.
- 2 To page the base unit, press **[0]**.  
To page another handset, enter its extension number (**[1] – [6]**).
- 3 When the paged party answers, press **[M]** to make a conference call.
  - To leave the conference, press **[\*0]**. The other 2 parties can continue the conversation.

##### Base unit

- 1 During an outside call, press **[INTERCOM]** to put the call on hold.
  - When only 1 handset is registered, the base unit pages the handset automatically.

**Multi-unit Operation**

- 2 To page a specified handset, enter its extension number ([1] – [6]). To page all handsets, press [0].
  - When you page all handsets, only the handset user who answers first can take the transferred call.
- 3 When the paged party answers, press [CONF] on the base unit to make a conference call.
  - To leave the conference, press [SP-PHONE]. The other 2 parties can continue the conversation.

**Note:**

- For handset and base unit:
  - The outside call can be put on hold by pressing [HOLD]. Only the person who placed the call on hold can resume the full conference by pressing [V] on the handset or [CONF] on the base unit.
- For base unit:
  - When more than 2 handsets are registered, the base unit pages all handsets a few seconds after pressing [INTERCOM] in step 1.

**Copying phonebook entries**

You can copy handset phonebook entries to the handset phonebook of another compatible Panasonic handset.

**Note:**

- Category settings for phonebook entries are not copied.

**Copying one entry**

- 1 Find the desired handset phonebook entry (page 22). → [RECALL]
- 2 [▲]/[▼]: “Copy” → [OK]
- 3 Enter the handset number you wish to send the handset phonebook entry to.
  - When an entry has been copied, “Completed” is displayed.
  - To continue copying another entry: [▲]/[▼]: “Yes” → [OK] → Find the desired handset phonebook entry. → [OK]
- 4 [X] [0]

**Copying all entries**

- 1 [□] → [RECALL]
- 2 [▲]/[▼]: “Copy All” → [OK]
- 3 Enter the handset number you wish to send the handset phonebook entry to.
  - When all entries have been copied, “Completed” is displayed.
- 4 [X] [0]

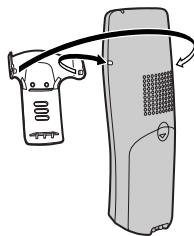
**Useful Information**

---

**Using the belt clip**

---

**Attaching the belt clip**



---

**Removing the belt clip**





**Useful Information**

**Character entry**

The dial keys are used to enter characters and numbers. Each dial key has multiple characters assigned to it. The available character entry modes are Alphabet (ABC), Numeric (0-9), Greek (ABΓ), Extended 1 (AÄÅ), Extended 2 (ŠŠŠ), and Cyrillic (АБВ). When in these entry modes except Numeric, you can select which character is entered by pressing a dial key repeatedly.

- Press [◀] or [▶] to move the cursor.
- Press dial keys to enter characters and numbers.
- Press [C/✕] to erase the character or number highlighted by the cursor. Press and hold [C/✕] to erase all characters or numbers.
- Press [\*/] to switch between uppercase and lowercase.
- To enter another character located on the same dial key, press [▶] to move the cursor to the next space, then press the appropriate dial key.

**Character entry modes**

Several character entry modes can be used when entering text. The characters that can be entered depend on the entry mode.

**When the unit displays the character entry screen:**

**[1/2/3]** (right soft key) → [▲]/[▼]: Select a character entry mode. → **OK**

**Alphabet character table (ABC)**

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space # 0	Space # & ' ( ) * , - . / 1	A B C 2 a b c 2	D E F 3 d e f 3	G H I 4 g h i 4	J K L 5 j k l 5	M N O 6 m n o 6	P Q R S 7 p q r s 7	T U V 8 t u v 8	W X Y Z 9 w x y z 9

**Numeric entry table (0-9)**

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
0	1	2	3	4	5	6	7	8	9

**Greek character table (ABΓ)**

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space # 0	Space # & ' ( ) * , - . / 1	A B Γ 2	Δ E Z 3	H Θ I 4	K Λ M 5	N Ξ O 6	Π P Σ 7	T Y Φ 8	X Ψ Ω Ξ 9

**Useful Information**

**Extended 1 character table (AÄA)**

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space # 0	Space # & ' ( ) * , - . / 1	A Ä Å Â Ã Ä Å Æ B C Ç 2	D E È É Ê Ë Ë F 3	G Ğ H I Î Ï Ï Î Ï 4	J K L 5	M N Ñ O Ò Ó Ô Ö Ø ø 6	P Q R S Ş ß 7	T U Û Ú Ü Ü Û V 8	W X Y Ŵ Ŷ ŷ Z 9
		a ä å â ã ä å æ b c ç 2	d e è é ê ë ë f 3	g ğ h i î ï ï î ï 4	j k l 5	m n ñ o ò ó ô ö ø ø 6	p q r s ş ß 7	t u ù ú û ü û v 8	w x y ŵ ŷ ŷ z 9

- The following are used for both uppercase and lowercase: ø Ş Ŵ Ŷ ŷ

**Extended 2 character table (SŠŠ)**

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space # 0	Space # & ' ( ) * , - . / 1	A Ä Å A B C C Ç 2	D Ď E É Ě ě F 3	G H I I 4	J K L L Ľ L 5	M N Ń Ń O Ó Ŕ Ŗ 6	P Q R Ŕ Ŕ Š Š Š 7	T Ť U Ú Ů Ů ú v 8	W X Y y Ý Z Ž ž Ž 9
		a ä å A b c C Ç 2	d ě e é ě ě f 3	g h i I 4	j k l L Ľ L 5	m n Ń ň o ó ŕ š š š ö 6	p q r Ŕ ř š š š 7	t ť u ú ů ů v 8	w x y y ý z ž ž ž 9

- The following are used for both uppercase and lowercase:

Ą Ć Ć Ę Ł Ł Ľ Ľ Ń Ń Š Š ů ý Ž Ž Ž

**Cyrillic character table (AБB)**

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space # 0 Г Е I Ī Ÿ	Space # & ' ( ) * , - . / 1	A Б В Г 2	D E Ж З 3	I Й К Л 4	M H O П 5	P C T У 6	Ф X Ц Ч 7	Ш Щ Ъ Ы 8	Ь Э Ю Я 9

**Useful Information**

**Error messages**

Error message	Cause & solution
<b>Answer Sys. Full</b>	<ul style="list-style-type: none"> <li>• Erase unnecessary messages (page 38).</li> </ul>
<b>Error</b>	<ul style="list-style-type: none"> <li>• Recording was too short. Try again.</li> </ul>
<b>Failed</b>	<ul style="list-style-type: none"> <li>• Phonebook copy failed. Confirm the other handset (the receiver) is in standby mode and try again.</li> </ul>
<b>Incomplete</b>	<ul style="list-style-type: none"> <li>• The receiver's phonebook memory is full. Erase the unnecessary phonebook entries from the other handset (the receiver) and try again.</li> </ul>
<b>Memory Full</b>	<ul style="list-style-type: none"> <li>• The handset's phonebook memory is full. Erase unnecessary entries (page 23).</li> <li>• Message memory is full. Erase unnecessary messages (page 38).</li> </ul>
<b>You must first subscribe to Caller ID.</b>	<ul style="list-style-type: none"> <li>• You must subscribe to Caller ID service. Once you receive caller information after subscribing to Caller ID service, this message will not be displayed.</li> </ul>


**Troubleshooting**

If you still have difficulties after following the instructions in this section, disconnect the base unit AC adaptor and turn off the handset, then reconnect the base unit AC adaptor and turn on the handset.






**Telephone**

Problem	Cause & solution
<p>Y is flashing.</p>	<ul style="list-style-type: none"> <li>• The handset is not registered to the base unit. Register it (page 43).</li> <li>• The handset is too far from the base unit. Move closer.</li> <li>• The base unit AC adaptor is not connected. Check the connections.</li> <li>• You are using the handset or base unit in an area with high electrical interference. Place the handset and base unit away from interference sources, such as antennas and mobile phones.</li> </ul>
<p>The handset display is blank.</p>	<ul style="list-style-type: none"> <li>• The handset is in screen saver mode (page 14). Press [<b>Y</b>] to activate the handset display again.</li> <li>• The handset is not turned on. Turn the power on (page 14).</li> </ul>

**Useful Information**

<b>Problem</b>	<b>Cause &amp; solution</b>
The handset will not turn on.	<ul style="list-style-type: none"> <li>• Make sure that the batteries are installed correctly (page 12).</li> <li>• Fully charge the batteries (page 13).</li> <li>• Clean the charge contacts and charge again (page 13).</li> </ul>
I have changed the display language to a language I cannot read.	<ul style="list-style-type: none"> <li>• Change the display language (page 14).</li> </ul>
I cannot make or receive calls.	<ul style="list-style-type: none"> <li>• The base unit AC adaptor or telephone line cord is not connected. Check the connections.</li> <li>• If you are using a splitter to connect the unit, remove the splitter and connect the unit to the wall socket directly. If the unit operates properly, check the splitter.</li> <li>• Disconnect the base unit from the telephone line and connect the line to a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your service provider/telephone company.</li> <li>• The dialling mode setting is incorrect. Set to “<b>Tone</b>” or “<b>Pulse</b>” as needed (page 15).</li> <li>• You dialled a call restricted number (page 31).</li> <li>• The key lock feature is turned on. Turn it off (page 20).</li> </ul>
The unit does not ring.	<ul style="list-style-type: none"> <li>• The ringer volume is turned off. Adjust the ringer volume (page 24, 29).</li> <li>• The night mode feature is turned on. Turn it off (page 28).</li> </ul>
The batteries should be charging but the battery icon does not change.	<ul style="list-style-type: none"> <li>• Clean the charge contacts and charge again (page 13).</li> </ul>
A busy tone is heard when [  ] is pressed.	<ul style="list-style-type: none"> <li>• The handset is too far from the base unit. Move closer and try again.</li> <li>• Another handset is in use or the answering system is being used. Wait and try again later.</li> </ul>
Static is heard, sound cuts in and out. Interference from other electrical units.	<ul style="list-style-type: none"> <li>• Place the handset and the base unit away from other electrical appliances.</li> <li>• Move closer to the base unit.</li> <li>• Your unit is connected to a telephone line with DSL service (page 55).</li> </ul>

**Useful Information**

<b>Problem</b>	<b>Cause &amp; solution</b>
Noise is heard during a call.	<ul style="list-style-type: none"> <li>You are using the handset or base unit in an area with high electrical interference. Place the handset and base unit away from interference sources, such as antennas and mobile phones.</li> </ul>
The handset/base unit stops working while being used.	<ul style="list-style-type: none"> <li>Disconnect the base unit AC adaptor and turn off the handset. Reconnect the base unit AC adaptor, turn on the handset and try again.</li> </ul>
The handset beeps intermittently and/or  flashes.	<ul style="list-style-type: none"> <li>Fully charge the batteries (page 13).</li> </ul>
I fully charged the batteries, but  still flashes.	<ul style="list-style-type: none"> <li>Clean the charge contacts and charge again (page 13).</li> <li>It is time to replace the batteries (page 12).</li> </ul>
I fully charged the batteries, but the operating time seems to be short.	<ul style="list-style-type: none"> <li>Wipe the battery ends (⊕, ⊖) and the unit contacts with a dry cloth.</li> </ul>
Caller information is not displayed.	<ul style="list-style-type: none"> <li>You need to subscribe to Caller ID service. Consult your service provider/telephone company for details.</li> <li>Your unit is connected to a telephone line with DSL service (page 55).</li> </ul>
I cannot register a handset to a base unit.	<ul style="list-style-type: none"> <li>The maximum number of handsets (6) are already registered to the base unit. Cancel unused handset registrations from the base unit (page 43).</li> <li>You entered the wrong PIN. If you forget your PIN, consult your nearest Panasonic service centre.</li> <li>Place the handset and the base unit away from other electrical appliances.</li> </ul>
I do not know how to erase  (Missed call) from the display.	<ul style="list-style-type: none"> <li>There are unviewed missed calls remaining. View them using the following method.                             <ol style="list-style-type: none"> <li> (middle soft key) →  → <b>OK</b></li> <li>Press <b>[v]</b> to search from the most recent call, or press <b>[^]</b> to search from the oldest call.</li> </ol> </li> </ul>
I cannot establish a conference call.	<ul style="list-style-type: none"> <li>A conference call cannot be established in the following instances;                             <ul style="list-style-type: none"> <li>the base unit's settings or the answering system is currently in use</li> <li>a conference call has already been established on another line</li> <li>an intercom call is currently being made by another user</li> </ul>                             Wait for the other user to finish.                         </li> </ul>

## Useful Information

### Answering system

Problem	Cause & solution
The unit does not record new messages.	<ul style="list-style-type: none"> <li>• The answering system is not turned on for the line you wish to record messages from. Select the desired line or both lines, then turn the answering system on (page 36).</li> <li>• The recording time is set to "Greeting Only". Select "1 Minute" or "3 Minutes" (page 42).</li> <li>• The answering system is activated for both lines, and the 1st caller is leaving a voice message. The 2nd caller cannot leave a message, but the caller information will be stored (page 34).</li> <li>• If you subscribe to the voice mail service, messages are recorded by your service provider/telephone company not your telephone. Change the unit's "Number of Rings" setting or consult your service provider/telephone company (page 42).</li> </ul>
I cannot operate the answering system with the handset.	<ul style="list-style-type: none"> <li>• The base unit or another handset is being used. Wait for the other user to finish.</li> <li>• A caller is leaving a message. Wait for the caller to finish.</li> <li>• The handset is too far from the base unit. Move closer.</li> </ul>
When I try to operate the answering system with the base unit, [ANSWER ON] on the base unit flashes for a few seconds and I cannot operate the answering system.	<ul style="list-style-type: none"> <li>• Another handset is being used. Wait for the other user to finish.</li> <li>• The answering system is being operated remotely from outside. Wait for the caller to finish.</li> </ul>
I cannot operate the answering system remotely.	<ul style="list-style-type: none"> <li>• You are entering the wrong remote access code. If you forget the remote access code, store a new remote access code and try again (page 40).</li> <li>• Press each key firmly.</li> <li>• The answering system is turned off. Turn it on (page 41).</li> <li>• You are using a rotary/pulse telephone. Try again using a touch-tone phone.</li> </ul>

**Useful Information**

<b>Problem</b>	<b>Cause &amp; solution</b>
While recording a greeting message or listening to messages, the unit rings and recording stops.	<ul style="list-style-type: none"><li>• A call is being received. Answer the call and try again later.</li></ul>

**For DSL users**

We recommend connecting a filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.

## Useful Information

### Specifications

- **Standard:**  
DECT (Digital Enhanced Cordless Telecommunications),  
GAP (Generic Access Profile)
- **Number of channels:**  
120 Duplex Channels
- **Frequency range:**  
1.88 GHz to 1.90 GHz
- **Duplex procedure:**  
TDMA (Time Division Multiple Access)
- **Channel spacing:**  
1,728 kHz
- **Bit rate:**  
1,152 kbit/s
- **Modulation:**  
GFSK (Gaussian Frequency Shift Keying)
- **RF transmission power:**  
Approx. 250 mW
- **Voice coding:**  
ADPCM 32 kbit/s
- **Power source:**  
220–240 V, 50 Hz
- **Power consumption:**  
**Base unit:**  
Standby: Approx. 1.6 W  
Maximum: Approx. 5.5 W
- **Operating conditions:**  
5 °C–40 °C, 20 %–80 % relative air humidity (dry)
- **Dimensions:**  
**Base unit:** Approx. 55 mm × 220 mm × 140 mm  
**Handset:** Approx. 155 mm × 48 mm × 34 mm
- **Mass (weight):**  
**Base unit:** Approx. 440 g  
**Handset:** Approx. 140 g

**Note:**

- Specifications are subject to change.

- The illustrations used in these operating instructions may differ slightly from the actual product.



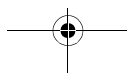
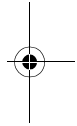
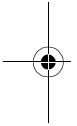
## Index

- A** Additional handsets: 43
  - Alarm: 27
  - Answering calls
    - Base unit: 19
    - Handset: 19
  - Answering system: 36
    - Listening to messages: 38
    - Remote operation: 40
    - Settings: 41
    - Turning on/off: 36
  - Auto talk: 19, 25
- B** Base unit
  - Resetting: 31
  - Settings: 29
  - Battery: 12, 13
  - Belt clip: 4, 48
- C** Caller ID service: 33
  - Call privacy: 21
  - Call restriction: 31
  - Call share: 20
  - Category: 22
    - Display colours: 34
  - Ringtones: 33
  - Chain dial: 23
  - Character entry: 49
  - Conference calls: 46
- D** Date and time: 15
  - Dialling mode: 15
  - Display (Base unit)
    - Icons: 8
  - Display (Handset)
    - Colour: 25
    - Contrast: 25
    - Icons: 8
    - Language: 14
    - Standby mode: 25
    - Wallpaper: 25
- H** Handset
  - Deregistration: 43
  - Locator: 44
  - Registration: 43
  - Settings: 24
- Hold: 19
- I** Intercom: 44
- K** Key lock: 20
  - Keytones: 25
- L** Line selection mode: 15
- M** Making calls
  - Base unit: 18
  - Handset: 17
  - Message alert: 25
  - Missed calls: 33
  - Mute: 19
- N** Night mode
  - Handset: 27
- P** Pause: 18
  - Phonebook
    - Handset phonebook: 22
  - Phonebook copy: 47
  - PIN: 30
  - Power on/off: 14
- R** Recall/Flash: 20, 29
  - Recording
    - Greeting message: 36
    - Telephone conversations: 20
  - Redialling: 17, 18
  - Region settings: 14, 31
  - Registration: 43
  - Repeater: 44
  - Ringtone
    - Base unit: 29
    - Handset: 24
- S** Speakerphone: 17, 18
- T** Temporary tone dialling: 20
  - Transfer calls: 45
- V** Voice enhancer: 20
  - Voice mail: 35
  - Volume
    - Receiver: 17
    - Ringer (Base unit): 29
    - Ringer (Handset): 24
    - Speaker (Base unit): 18
    - Speaker (Handset): 17



---

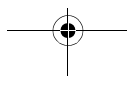
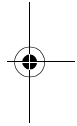
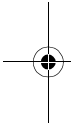
## Notes





---

## Notes



# CE0470

1999/5/EC

## ■ Czech

**Sales Department**  
**Panasonic Czech Republic, s.r.o.**

Thámova 289/13 (Palác Karlín)  
186 00 Praha 8  
telefon: +420-236 032 511  
centrální fax: +420-236 032 411  
e-mail: panasonic.praha@eu.panasonic.com  
e-mail: servis.praha@eu.panasonic.com  
aktuální info na www.panasonic.cz

## ■ Turkey

### Contact information

**Nemko Comlab AS**  
Gasevikveien 8, P.O.Box 96  
N-2027 Kjeller, Norway  
Tel: +47 64 84 57 00  
Faks: +47 64 84 57 05  
E-mail: post@comlab.no  
Web: http://www.comlab.no/index.htm

## ■ Slovakia

**Sales Department**  
**Panasonic Slovakia, spol. s r.o.**

Štúrova 11, 811 02 Bratislava,  
Slovenská republika  
Tel. číslo: +421-2-5292-1423  
Fax: +421-2-5292-1411  
web: www.panasonic.sk

**Panasonic Testing Centre**  
**Panasonic Marketing Europe GmbH**  
Winsbergring 15, 22525 Hamburg, Germany  
Tel: +4940 8549 3555  
Faks: +4940 8549 3560  
E-mail: info@panasonic-tc.de  
Web: http://www.panasonic-tc.de  
DoC Server: http://doc.panasonic.de

## İthalatçı firma:

### tekofaks

ELEKTRONİK SANAYİ MÜMESSİLLİK VE TİC. A.Ş.

Kağıthane Cad. Sevilen Sok. No: 65 Çağlayan - İSTANBUL

Tel: (0212) 210 69 00 Faks: (0212) 222 77 26

Müşteri Hizmetleri Yardım Hattı Tel No: 444 33 34

## Panasonic Communications Co., Ltd.

1-62, 4-chome, Minoshima, Hakata-ku, Fukuoka 812-8531, Japan

### Copyright:

This material is copyrighted by Panasonic Communications Co., Ltd., and may be reproduced for internal use only. All other reproduction, in whole or in part, is prohibited without the written consent of Panasonic Communications Co., Ltd.

© 2007 Panasonic Communications Co., Ltd. All Rights Reserved.



\*TG8280FX\*

PQQX15772YA CC0807DK1097

**FX-2/4**