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Panasonic

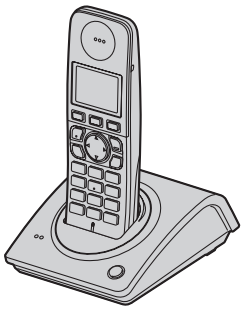
Operating Instructions

Digital Cordless Phone

Model No. **KX-TG8070FX**
KX-TG8072FX

Digital Cordless Answering System

Model No. **KX-TG8090FX**



KX-TG8070

SMS

This unit is compatible with Caller ID and SMS. To use these features, you must subscribe to the appropriate service of your service provider/telephone company.

Charge the batteries for about 8 hours before initial use.

(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.

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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:
- In the event of problems, you should contact your equipment supplier in the first instance.

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

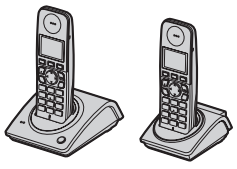
Contact to Authorised Representative:
Panasonic Testing Centre
Panasonic Marketing Europe GmbH
Winsbergring 15, 22525 Hamburg, Germany

Your phone

KX-TG8070/KX-TG8090

*The pictured model is KX-TG8070.

KX-TG8072



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Accessory information

Supplied accessories

No.	Accessory items	Quantity	
		KX-TG8070 KX-TG8090	KX-TG8072
①	AC adaptor for base unit **KX-TG8070/KX-TG8072** Part No. PQWATG1070CE **KX-TG8090** Part No. PQWATG8090CE	1	1
②	Telephone line cord	1	1
③	Rechargeable batteries AAA (R03) size Part No. HHR-4EPT	2	4
④	Handset cover*1	1	2
⑤	Belt clip	1	2
⑥	Charger Part No. PQWETGA807CE	—	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-TGA807FX	Additional Digital Cordless Handset
②	KX-TCA817EX	Wall-Mounting Adaptor
③	KX-TCA94EX	Headset

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.

② ③

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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.

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.

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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

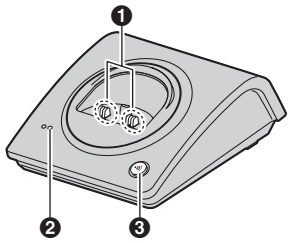
If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

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.

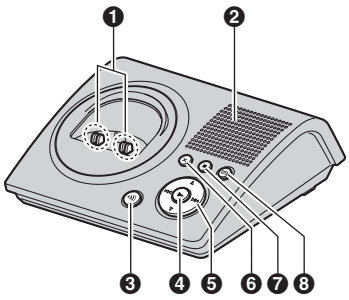
Controls

Base unit (KX-TG8070/KX-TG8072)



❶ Charge contacts
❷ Ringer
❸ 【•))】(Page)

Base unit (KX-TG8090)



❶ Charge contacts
❷ Speaker
❸ 【•))】(Page)
❹ 【►】(Play)/Message indicator
❺ Navigator key (【▲】/【▼】/【I◄◄】/【►►I】)
【▲】/【▼】:
– Adjusts the call screening volume when call screening or in standby mode.
– Adjusts the message volume during message playback.
❻ 【×】(Erase)
❼ 【■】(Stop)
❽ 【📼】(Answer on)/Answer on indicator

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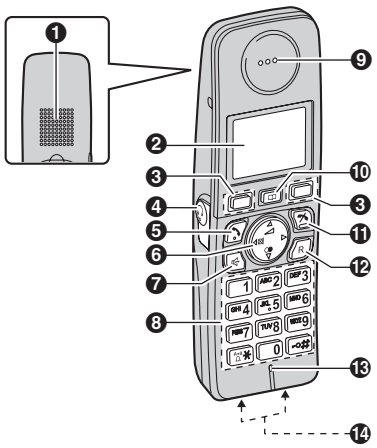
Handset



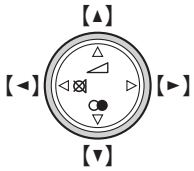
❶ **Speaker**
❷ **Display**
❸ **Soft keys**
❹ **Headset jack**
❺ **【 】(Talk)**
❻ **Navigator key (【▲】/【▼】/【◄】/【►】)**
【▲/ 】/【▼】: (Volume)
【▼/ 】(Redial)
【◄/ 】(Mute)
❼ **【 】(Speakerphone)**
❽ **Dial keypad**
❾ **Receiver**
❿ **【 】(Phonebook)**
⓫ **【 】(Off)**
⓬ **【R】(Recall)**
⓭ **Microphone**
⓮ **Charge contacts**

Using the 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

Display icons (located at the top of the display)

Icon	Meaning
	Within range of a base unit ● When flashing: Handset is searching for base unit. (page 32)
	Speakerphone is on.
	Headset (option) is connected.
	Line is being used. ● When flashing: There is an incoming call.
	Mute is on. (page 13)
	Ringer volume is off. (page 16)
	Answering system is on.*1 (page 23)
	Key lock is on. (page 14)
	Battery level

*1 KX-TG8090

Note:

- The current handset number is displayed next to the handset name on the display in standby mode.

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Display icons (located at the bottom of the display)

Icon	Meaning
a	Lower case when entering characters/numbers
A	Upper case when entering characters/numbers
1 2	Number selection when entering characters/numbers*1
✉	New SMS message received.*2 (page 21) ● When flashing: SMS memory is full.
⏺	New messages have been recorded.*3 (page 24) ● When flashing: Message memory is full.
➔)	Missed call*4 (page 19)

*1 Lower case letters can be also selected.
*2 SMS users only
*3 KX-TG8090
*4 Caller ID subscribers only

Menu icons

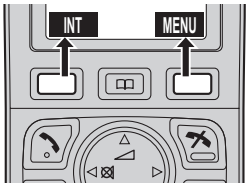
When in standby mode, pressing the right soft key reveals the handset's main menu. From here you can access various features and settings.

Icon	Feature
✉	SMS (Short Message Service)
➔)	Caller List
✎	Display Setup
🔧	Handset Setup
▭	Base Unit Setup
⏺	Answer System*1
♪	Ringer Setup*2

*1 KX-TG8090
*2 KX-TG8070/KX-TG8072

Soft keys

The handset features 2 soft keys. By pressing a soft key, you can select the feature or operation indicated by the soft key icon shown directly above it.



Soft key icons

Icon	Action
↩	Returns to the previous screen.
■	Stops recording or playback.*1
×	Erase the message during playback.*1

*1 KX-TG8090

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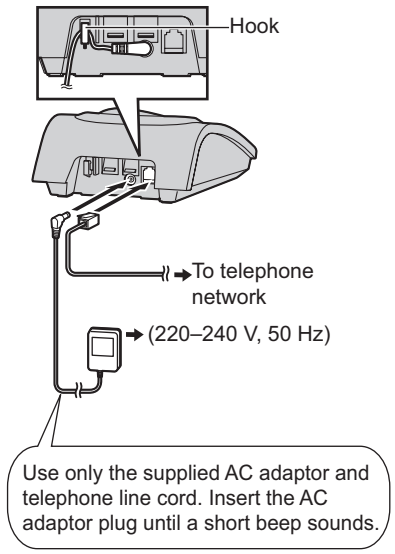
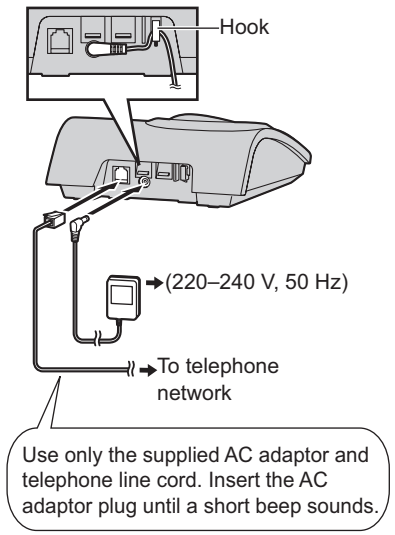
Connections

Base unit (KX-TG8070/KX-TG8072)

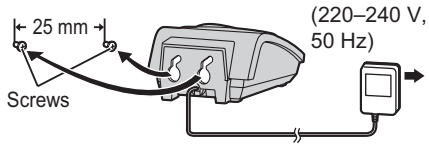


Base unit (KX-TG8090)



Charger (KX-TG8072)

The charger can be mounted on the wall, if required.



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.

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.

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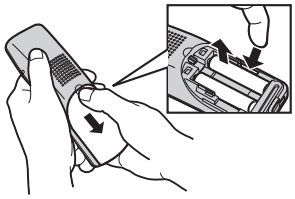
Battery installation and replacement

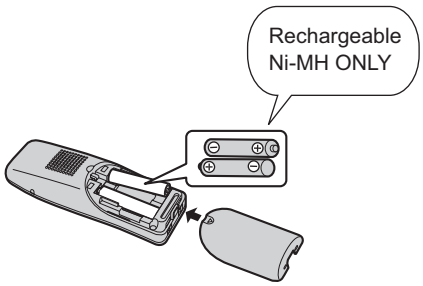
Important:

- Use only the supplied rechargeable batteries noted on page 4, 5.
- 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, 5.

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

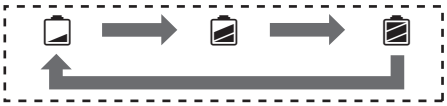


2 Insert the batteries negative (⊖) end first. Close the handset cover.



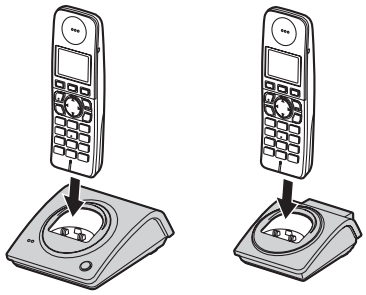
Battery charge

Place the handset on the base unit or charger for about 8 hours before initial use.
When charging, the battery icon is shown as follows.



When the batteries are fully charged, remains on the display.

Base unit[*1] **Charger**[*2]



*1 The pictured model is KX-TG8070.
*2 KX-TG8072

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, base unit, and charger 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.

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Battery level

Battery icon	Battery level
	High
	Medium
	Low ● When flashing: Needs to be charged.

Panasonic Ni-MH battery performance (supplied batteries)

Operation	Operating time
In continuous use	10 hours max.
In continuous standby mode	100 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 or charger 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 or charger and let it charge for at least 8 hours.

Screen saver mode

If the handset is not on the base unit or charger

The backlight will turn off completely after 1 minute of inactivity, even when:

– on a call

– operating the answering system

To use the handset when it is in screen saver mode, activate the handset display again by:

– pressing **[▲]** or **[▼]** when on a call or operating the answering system

– pressing **[ ]** for all other times

While charging

The backlight will be dimmed after 1 minute of inactivity. The backlight can be turned off completely depending on the setting (page 16). To use the handset when it is in screen saver mode, lift the handset to activate the handset display again.

Setting up the unit before use

Display language

15 display languages are available.

You can select “English”, “Magyar”, “Polski”, “SlovenČina”, “ČeŠtina”, “Hrvatski”, “Slovenscina”, “Eesti”, “LIETUVIŠKAI”, “LatvieŠu”, “Română”, “БЪЛГАРСКИ”, “Srpski”, “МАКЕДОНСКИ”, or “Shqip”.

1 **[ ]** → **[MENU]**

2 Select 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]** → **[ ]**

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Note:

- If you select a language you cannot read: 【✆】 → 【MENU】 (right soft key) → 【►】 2 times → 【OK】 (right soft key) → 【▼】 2 times → 【OK】 (right soft key) → 【▼】 2 times → 【OK】 (right soft key) → 【▲】/【▼】: Select the desired language. → 【OK】 (right soft key) → 【✆】

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.

1 【MENU】 (right soft key)

2 Select ☎ by pressing 【▲】, 【▼】, 【◄】, or 【►】. → 【OK】

3 Enter the base unit PIN (default: **"0000"**). → 【OK】
- If you forget your PIN, consult your nearest Panasonic service centre.

4 Press 【▲】 or 【▼】 to select **"Call Options"**. → 【OK】

5 Press 【▲】 or 【▼】 to select **"Dial Mode"**. → 【OK】

6 Press 【▲】 or 【▼】 to select the desired setting. → 【OK】 → 【✆】

Date and time

1 【MENU】 (right soft key)

2 Select ✎ by pressing 【▲】, 【▼】, 【◄】, or 【►】. → 【OK】

3 Press 【▲】 or 【▼】 to select **"Set Date & Time"**. → 【OK】

4 Enter the current date, month, and year. → 【OK】
Example: 17 May, 2007
【1】【7】【0】【5】【0】【7】
- You can select the format by pressing 【#】:
  - mm-dd-yy (month-date-year)
  - yy-mm-dd
  - yy-dd-mm
  - dd-mm-yy

5 Enter the current hour and minute.
Example: 3:30 PM
【0】【3】【3】【0】 → Press 【✳】 until **"03:30PM"** is displayed.

6 【OK】 → 【✆】

Note:

- To correct a digit, press 【◄】 or 【►】 to move the cursor to the digit, then make the correction.
- The date and time will be reset on the handset display after a power failure. In this case, set the date and time again.
- If you set the date and time with handset 1, press 【✆】 and 【✆】 on another handset to show the time on that handset (KX-TG8072).

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Making calls

1 Lift the handset and dial the phone number.
- To correct a digit, press **【DEL】**.

2 **【】**

3 When finished talking, press **【】** or place the handset on the base unit or charger.

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 **【】**.
- Speakerphone cannot be used when the headset is connected.

Adjusting the receiver or speaker volume

Press **【▲】** or **【▼】** while on a call.

Making a call using the redial list

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

1 **【▼/○●】**

2 **【▲】/【▼】**: Select the desired number.

3 **【】**

Editing/erasing/storing

1 **【▼/○●】**

2 **【▲】/【▼】**: Select the desired number. → **【MENU】**

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. → **【】**

■ **Erasing numbers:**
【▲】/【▼】: **"Erase"** or **"Erase All"** → **【OK】** → **【YES】** → **【】**

■ **Storing a number into the handset phonebook:**
【▲】/【▼】: **"Add Phonebook"** → **【OK】** → Enter a name (15 characters max.; page 30). → **【OK】** → **【】**

Note:
- When editing:
  - To erase a number, place the cursor to the right of where you want to erase the number, then press **【DEL】**.
  - To insert a number, place the cursor where you want to insert the number, then press the appropriate dial key.

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 **【9】** before dialling outside numbers manually, you will probably need to pause after dialling **【9】** until you hear a dial tone.

1 Press **【9】** to reproduce a dial tone for outside calls.

2 Press **【0】** for about 2 seconds to enter a pause.

3 Dial the phone number. → **【】**

Note:
- A 3 second pause is inserted each time **【0】** is pressed for about 2 seconds. Repeat as needed to create longer pauses.

Useful features during a call

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.
To mute your voice, press **【◄/⊠】**.
- ⊠ is displayed.
- To return to the conversation, press **【◄/⊠】** again.

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R button

Pressing 【R】 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 time, see page 18.

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 【#】 for about 2 seconds in standby mode.

- is displayed.
- To turn key lock off, press 【#】 again for about 2 seconds in standby mode.

Note:

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

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.

Answering calls

1. Lift the handset and press 【 】 or 【 】 when the unit rings.
   - Speakerphone cannot be used when the headset is connected.
2. When finished talking, press 【 】 or place the handset on the base unit or charger.

Auto talk feature

You can answer calls simply by lifting the handset off the base unit or charger. You do not need to press 【 】. To turn this feature on, see page 16.

Adjusting the handset ringer volume when receiving a call

Press 【▲】 or 【▼】.

Temporary ringer off

While the handset is ringing for a call, you can turn the ringer off temporarily by pressing 【 】.

Silent mode

To switch off the ringer, press and hold 【✱】 when in standby mode until shows on the display.

- When an incoming call is received, only flashes on the display to indicate an incoming call. To switch on the ringer, press and hold 【✱】 when in standby mode until disappears from the display.

Note:

- Even if silent mode is set, the handset will ring for paging, and the tone sounds when receiving messages if you set the SMS alert **"On"** (page 22).

Handset locator

Using this feature, you can locate the handset if it has been misplaced.

1. Press 【 】 on the base unit.
2. To stop paging, press 【 】 on the base unit or press 【 】 on each handset.

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Handset phonebook

The handset phonebook allows you to make calls without having to dial manually. You can add 200 names and phone numbers.

Adding entries

1 【📖】→【MENU】
2 【▲】/【▼】: "New Entry" →【OK】
3 Enter the party's name (15 characters max.; page 30). →【OK】
4 Enter the party's phone number (24 digits max.). →【OK】→【✂】

Note:

- The number of entries stored in the phonebook is displayed on the bottom of the handset display.

Finding and calling a handset phonebook entry

Scrolling through all entries

1 【📖】
2 【▲】/【▼】: Select the desired entry.
3 【📞】

Searching by first character

1 【📖】
2 Press the dial key (【0】 to 【9】) which contains the character you are searching for (page 30).
   - Press the same dial key repeatedly to display the first entry corresponding to each letter located on that dial key.
3 Press 【▲】 or 【▼】 to scroll through the phonebook if necessary.
4 【📞】

Editing entries

1 Find the desired entry (page 15). →【MENU】
2 【▲】/【▼】: "Edit" →【OK】
3 Edit the name if necessary (15 characters max.; page 30). →【OK】
4 Edit the phone number if necessary (24 digits max.). →【OK】→【✂】

Erasing entries

1 Find the desired entry (page 15). →【MENU】
2 【▲】/【▼】: "Erase" or "Erase All" →【OK】
3 【YES】→【✂】

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 【MENU】.
2 【▲】/【▼】: "Phonebook" →【OK】
3 【▲】/【▼】: Select the desired entry.
4 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 15).

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Handset settings

To customise the handset:

1 【MENU】 (right 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】
5 Press 【▲】 or 【▼】 to select the desired setting then press 【OK】.
- This step may vary depending on the feature being programmed.
- To exit the operation, press 【↶】.

Note:

- The selected item is highlighted on the display. The currently activated setting is indicated by "▮" located on the left of the item on the display.

Menu	Sub-menu	Details (default setting)
Set Date & Time	—	page 12
Ringer Setup	Ringer Volume	For handset ("Volume 5")[*1]
	Ext. Ringtone	For outside calls ("Ringtone 1")[*2]
	Int. Ringtone	For intercom calls ("Ringtone 2 ")
Display Setup	Wallpaper	Wallpaper 1[*3]
	Handset Name	("Handset"): page 17
	Select Language	("English"): page 11
	Contrast	("Contrast 5")
	Dimmed Backlight	("On")[*4]
Auto Talk	—	("Off"): page 14
Registration	Register Handset	page 27
	Deregistration	page 27
Select Base	—	("Base 1"): page 27
Tone Options	Keytones	("On")
	Battery Low	("On")
	Out of Range	("Off")

*1 When the ringer volume is turned off, 🔕 is displayed and the handset does not ring for outside calls and intercom calls. However even when the ringer volume is turned off,
– the handset rings for paging (page 14)
– the tone sounds when receiving messages if you set the SMS alert "On" (page 22)

*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 You can select between 3 kinds of wallpapers and "Off".

*4 The handset automatically switches to the selected dimmed backlight mode after 1 minute of charging without key activity:
– "Off": Backlight turns off.
– "On": Backlight is dimmed.
– "For 10 minutes": Backlight is dimmed for 10 minutes then turns off.

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Special instructions for display setup

Handset names

Each handset can be given a customised name (“Bob”, “Kitchen”, etc.), which is shown on the display in standby mode. This is useful when you have multiple handsets. The current handset number is displayed next to the handset name.

1 【MENU】 (right soft key) → ✎ → 【OK】
2 【▲】/【▼】: “Display Setup” → 【OK】
3 【▲】/【▼】: “Handset Name” → 【OK】
4 Edit the name (15 characters max.; page 30). → 【OK】 → 【↶】

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Base unit settings

To customise the base unit:

1 **【MENU】** (right soft key)

2 Select by pressing **【▲】**, **【▼】**, **【◄】**, or **【►】**. → **【OK】**

3 Enter the base unit PIN (Personal Identification Number; default: **"0000"**). → **【OK】**

4 Press **【▲】** or **【▼】** to select the desired item in the base unit settings menu. → **【OK】**

5 Press **【▲】** or **【▼】** to select the desired item in the sub-menu. → **【OK】**

6 Press **【▲】** or **【▼】** to select the desired setting then press **【OK】**.
- This step may vary depending on the feature being programmed.
- To exit the operation, press **【】**.

Note:
- Use the handset to customise the base unit.
- The selected item is highlighted on the display. The currently activated setting is indicated by "▮" located on the left of the item on the display.

Menu	Sub-menu	Details (default setting)
Ringer Setup	Ringer Volume	For base unit (**"Volume 3"**)
	Ringtone	(**"Ringtone 1"**)
Call Options	Dial Mode	(**"Tone"**): page 12
	Recall/Flash	Recall time (**"600 msec."**)*1
	PBX Access No.	Enter the 1-digit code. → **【OK】***2
Base Unit PIN	—	Change base unit PIN (**"0000"**).*3 – Enter the new 4-digit base unit PIN.*4 → **【OK】** – Enter the new 4-digit base unit PIN again. → **【OK】**

*1 Change the recall time, if necessary, depending on the requirements of your service provider/telephone company or PBX. When using the unit in Czech/Slovakia, select **"100 msec."** as the recall time.

*2 If you store the PBX access number, a pause will be added automatically between the PBX access number and the first digit of the phone number when you make calls.

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

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

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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 30 callers will be logged in the caller list.
- 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.
- If the unit is connected to a PBX system, you may not receive the caller information.
- When the caller dialled 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. "**New Calls**" and ➔) are shown on the display. This lets you know if you should view the caller list to see who called while you were out. "**New Calls**" and ➔) remain until you view all missed calls.

Caller list

Viewing the caller list and calling back

1 【▲】

2 Press 【▼】 to search from the most recent call, or press 【▲】 to search from the oldest call.
- If the item has already been viewed or answered, "✓" is displayed, even if it was viewed or answered using another handset.

3 【📞】

Editing a caller's phone number before calling back

1 【▲】

2 【▲】/【▼】: Select the desired entry. → 【OK】

3 Edit the number.
- Press 【◄】 or 【►】 to move the cursor. Press dial key (【0】 to 【9】) to add, 【DEL】 to delete.

4 【📞】

Erasing caller information

1 【▲】

2 【▲】/【▼】: Select the desired entry. → 【MENU】

3 【▲】/【▼】: "**Erase**" or "**Erase All**" → 【OK】

4 【YES】 → 【✕】

Storing caller information into the handset phonebook

1 【▲】

2 【▲】/【▼】: Select the desired entry. → 【MENU】

3 【▲】/【▼】: "**Add Phonebook**" → 【OK】

4 Enter the party's name (15 characters max.; page 30). → 【OK】 → 【✕】

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Using SMS

SMS allows you to send and receive text messages between other fixed-line and mobile phones that support compatible SMS networks and features.

Important:

- To use SMS features, you must:
  - subscribe to Caller ID and/or appropriate service
  - confirm SMS is turned on
  - confirm the correct message centre numbers are stored

  Consult your service provider/telephone company for details and availability.

Note:

- A total of 20 messages can be saved in **"Incoming"** and **"Outgoing"** combined.

Turning SMS on/off

The default setting is **"Off"**.

1 **【MENU】** (right soft key) → ✉ → **【OK】**
2 **【▲】/【▼】**: **"Settings"** → **【OK】**
3 **【▲】/【▼】**: **"SMS On/Off"** → **【OK】**
4 **【▲】/【▼】**: **"On"** or **"Off"** → **【OK】** → **【↶】**

Note:

- If you set SMS **"On"** (page 20), the 1st ring does not sound when you receive a call.

Storing SMS message centre numbers

SMS message centre telephone numbers must be stored in order to send and receive SMS messages.
You can store up to 4 numbers and select the desired message centre number in advance (page 20) for sending a message. Consult your service provider/telephone company for more information.

1 **【MENU】** (right soft key) → ✉ → **【OK】**
2 **【▲】/【▼】**: **"Settings"** → **【OK】**
3 **【▲】/【▼】**: **"SMS-Centre"** → **【OK】**
4 **【▲】/【▼】**: Select the desired centre number location (1-4). → **【OK】**
5 Add or edit the number as necessary. → **【OK】** → **【↶】**

Note:

- For PBX users:
  - You need to add the PBX line access number and a dialling pause to the beginning of the Message Centre phone number used for sending. You do not need to add a dialling pause if the PBX access number is only 1 digit.
  - If you only use the Message Centre 1 phone number for SMS, store the Message Centre 1 phone number as is (without adding a line access number or dialling pause) to Message Centre 2.

Selecting an SMS centre number for sending a message

If several SMS message centre numbers are stored, you can select the desired number to be used for sending messages. The default setting is **"SMS-Centre 1"**.

1 **【MENU】** (right soft key) → ✉ → **【OK】**
2 **【▲】/【▼】**: **"Settings"** → **【OK】**
3 **【▲】/【▼】**: **"Select Send SMSC"** → **【OK】**
4 **【▲】/【▼】**: Select the desired centre number location. → **【OK】** → **【↶】**

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Sending a message

Writing and sending a new message

1 【MENU】(right soft key) → ✉ → 【OK】

2 【▲】/【▼】: "Create" → 【OK】
- You can use the same text you created last time if you were interrupted (by an incoming call or pressing 【↷】) and could not send/save the message.

3 Enter the message (page 30). → 【OK】
- While entering messages, the remaining number of characters that can be entered is displayed on the bottom of the handset display.

4 Enter the destination phone number (20 digits max.). → 【OK】

■ **Using the redial list:**
【MENU】 → 【▲】/【▼】: "Redial" → 【OK】 → 【▲】/【▼】: Select the phone number. → 【OK】 2 times

■ **Using the caller list:**
【MENU】 → 【▲】/【▼】: "Caller List" → 【OK】 → 【▲】/【▼】: Select the party. → 【OK】 2 times

■ **Using the handset phonebook:**
【MENU】 → 【▲】/【▼】: "Phonebook" → 【OK】 → 【▲】/【▼】: Select the handset phonebook entry. → 【OK】 2 times

5 【▲】/【▼】: "Send" → 【OK】
- To save the message, select "Save".
- To cancel sending, press 【↷】.

Note:
- This unit supports SMS messages of up to 160 characters, however, the maximum number of characters you can send or receive may be limited by your SMS service provider/telephone company. Consult your SMS service provider/telephone company for details.
- Successfully sent messages are not stored.
- Saved/failed messages are stored in "Outgoing".
- If SMS message memory becomes full, you cannot send/save any messages.

Sending a saved/failed message

1 【MENU】(right soft key) → ✉ → 【OK】

2 【▲】/【▼】: "Outgoing" → 【OK】

3 【▲】/【▼】: Select a message. → 【READ】

4 To send the message, press 【MENU】. → 【▲】/【▼】: "Send" → 【OK】

Editing and sending a saved/failed message

1 【MENU】(right soft key) → ✉ → 【OK】

2 【▲】/【▼】: "Outgoing" → 【OK】

3 【▲】/【▼】: Select a message. → 【READ】

4 【MENU】 → 【▲】/【▼】: "Edit" → 【OK】

5 Edit the message (page 30). → 【OK】

6 Edit the destination phone number (20 digits max.). → 【OK】

7 【▲】/【▼】: "Send" → 【OK】

Erasing saved/failed messages

1 【MENU】(right soft key) → ✉ → 【OK】

2 【▲】/【▼】: "Outgoing" → 【OK】

3 【▲】/【▼】: Select a message. → 【READ】

4 【MENU】 → 【▲】/【▼】: "Erase" or "Erase All" → 【OK】

5 【YES】 → 【↷】

Receiving a message

- When an SMS message is received:
  – a tone is heard (if the SMS alert is turned on)
  – "New SMS" is displayed
  – ✉ is displayed
- If you receive messages which contain over 160 characters, they are divided into multiple messages, each containing a maximum of 153 characters.

Reading a received message

1 【MENU】(right soft key) → ✉ → 【OK】

2 【▲】/【▼】: "Incoming" → 【OK】

3 【▲】/【▼】: Select a message.

4 Press 【READ】 to read the message content.

Replying to a message

1 While reading a received message, press **[MENU]**.

2 **[▲]/[▼]**: **"Reply"** → **[OK]**
- If **"Use Last Text?"** is displayed, you can use the text from the last message you read by pressing **[YES]**.

3 Enter a message (page 30). → **[OK]**

4 Edit the destination phone number. → **[OK]**

5 **[▲]/[▼]**: **"Send"** → **[OK]**
- To save the message, select **"Save"**.
- To cancel sending, press **[ ]**.

Erasing received messages

1 While reading a received message, press **[MENU]**.

2 **[▲]/[▼]**: **"Erase"** or **"Erase All"** → **[OK]**

3 **[YES]** → **[ ]**

Storing the sender's number in the handset phonebook

1 While reading a received message, press **[MENU]**.

2 **[▲]/[▼]**: **"Add Phonebook"** → **[OK]**

3 Enter the party's name (15 characters max.; page 30). → **[OK]** → **[ ]**

Editing the sender's number before calling back

1 While reading a received message, press **[MENU]**.

2 **[▲]/[▼]**: **"Edit and Call"** → **[OK]**

3 Edit the number. → **[ ]**

SMS setting

SMS alert

If SMS alert is on, your handset will beep when you receive messages. The default setting is **"On"**.

1 **[MENU]** (right soft key) → ✉ → **[OK]**

2 **[▲]/[▼]**: **"Settings"** → **[OK]**

3 **[▲]/[▼]**: **"SMS Alert"** → **[OK]**

4 **[▲]/[▼]**: Select the desired setting. → **[OK]** → **[ ]**

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Answering system

Available for:
KX-TG8090

The answering system can answer and record calls for you when you are unavailable to answer the phone.

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 12).
- While callers are leaving messages, 【📼】 on the base unit flashes.
- When you operate SMS with one handset, you cannot operate the answering system with the other handset(s) or base unit(s).

Memory capacity

The total recording capacity (including your greeting message and caller messages) is about 15 minutes. A maximum of 99 messages can be recorded.

Note:

- If message memory becomes full:
  - **"Answer Sys. Full"** is shown on the handset display
  - 【📼】 on the base unit flashes rapidly
  - 📼 flashes on the bottom of the handset display

Turning the answering system on/off

Using the base unit

Press 【📼】 to turn on/off the answering system.

- When the answering system is turned on, 【📼】 lights up.

Using the handset

1 【MENU】 (right soft key) → 📼 → 【OK】

2 【▲】/【▼】: **"Answer On/Off"** → 【OK】

3 【▲】/【▼】: **"Answer On"** or **"Answer Off"** → 【OK】 → 【📵】

Note:

- When the answering system is turned on, 📼 is displayed on the top of the display.

Greeting message

When the unit answers a call, callers are greeted by a greeting message.

Recording a greeting message

You can record your own greeting message (60 seconds max.).

1 【MENU】 (right soft key) → 📼 → 【OK】

2 【▲】/【▼】: **"Settings"** → 【OK】

3 【▲】/【▼】: **"Greeting"** → 【OK】

4 【▲】/【▼】: **"Record Greeting"** → 【OK】

- Start recording your own greeting after the tone. Hold the handset about 20 cm away and speak clearly into the microphone. The maximum length of the greeting message is 60 seconds (minimum 1 second). The counter counts down from 60 while recording.

5 Press 【■】 to stop recording.

- Recorded greeting message is played automatically. Press 【■】 to stop playback. To erase the recorded greeting message, press 【✕】.

6 【📵】

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.

Selecting the language

You can select the language for the pre-recorded greeting message.

1 【MENU】 (right soft key) → 📼 → 【OK】

2 【▲】/【▼】: **"Settings"** → 【OK】

3 【▲】/【▼】: **"Greeting"** → 【OK】

4 【▲】/【▼】: **"Select Language"** → 【OK】

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5 【▲】/【▼】: Select the desired language. → 【OK】 → 【↷】

Playing back the greeting message

1 【MENU】 (right soft key) → 📼 → 【OK】
2 【▲】/【▼】: "Settings" → 【OK】
3 【▲】/【▼】: "Greeting" → 【OK】
4 【▲】/【▼】: "Play Greeting" → 【OK】
5 【↷】

Erasing the greeting message

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

1 【MENU】 (right soft key) → 📼 → 【OK】
2 【▲】/【▼】: "Settings" → 【OK】
3 【▲】/【▼】: "Greeting" → 【OK】
4 【▲】/【▼】: "Play Greeting" → 【OK】 → 【×】 → 【↷】

Listening to messages

Listening to new/all messages

When you have new messages:
– 【►】 on the base unit flashes
– 📼 is displayed on the bottom of the handset display

Using the base unit

Press 【►】.

- The base unit plays back all messages, new messages first.

Using the handset

1 【MENU】 (right soft key) → 📼 → 【OK】
2 【▲】/【▼】: "Play All Msg." → 【OK】
- The handset plays back all messages, new messages first.

Operations during playback

■ **To adjust the speaker volume:**
Press 【▲】 or 【▼】.

■ **To repeat a message:**
– for the base unit, press 【⏮】
– for the handset, press 【◄】

Press again to play the previous message.

■ **To skip a message:**
– for the base unit, press 【⏭】
– for the handset, press 【►】

■ **To stop a message:**
Press 【■】.

■ **To erase a message:**
Press 【×】.

Erasing all messages

Using the base unit

Press and hold 【×】 for 2 seconds to erase all messages.

Using the handset

1 【MENU】 (right soft key) → 📼 → 【OK】
2 【▲】/【▼】: "Erase All Msg." → 【OK】
3 【YES】 → 【↷】

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:
【MENU】 (right soft key) → 📼 → 【OK】 → 【▲】/【▼】: "Play All Msg." → 【OK】

Key	Operation
【4】	Repeat message (during playback)*1
【5】	Stop playback
【6】	Skip message (during playback)
【#】	Erase currently playing message

*1 Press again quickly to play the previous message.

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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 4-digit remote access code must be entered when operating the answering system remotely. The remote access code is pre-programmed in this unit. This code prevents unauthorised parties from listening to your messages remotely. Remote access is not possible unless you change the default remote access code (page 25).

1. 【MENU】 (right soft key) → 📼 → 【OK】
2. 【▲】/【▼】: "Settings" → 【OK】
3. 【▲】/【▼】: "Remote Code" → 【OK】
4. Enter the new 4-digit remote access code. → 【OK】
5. Enter the new 4-digit remote access code again. → 【OK】 → 【🔧】

Using the answering system remotely

When the answering system is on

1. Dial your phone number from a touch-tone phone.
2. Press 【✱】 after you hear the greeting.
   - The greeting will stop.
3. Enter the remote access code.
   - New messages will be played back first.
   - If there are no new messages, all old messages will be played back after a long beep.
   - If you enter the wrong remote access code, a long beep will ring 2 times. If you enter the wrong one 2 times, it will automatically hang up.
4. Refer to following table and press the corresponding keys for operations.

Note:

- You can hang up at any time.

Remote commands

Key	Operation
【4】	Repeat message (during playback)*1
【5】	Start and stop message playback
【6】	Skip message (during playback)
【8】	Turn answering system on
【0】	Turn answering system off
【#】	Erase currently playing message

*1 Press again quickly to play the previous message.

When the answering system is off

1. Dial your phone number from a touch-tone phone.
2. Let the phone ring 10 times.
3. Enter your remote access code within 10 seconds.
   - You can hang up, or enter your remote access code again and begin remote operation.
   - If you enter the wrong remote access code, a long beep will ring 2 times. If you enter the wrong one 2 times, it will automatically hang up.

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Answering system settings

Setting	Default setting	Page
Answering system on/off	**Answer On**	23
Pre-recorded greeting message language	**English**	23
Remote access code	**0000**	25
Caller's recording time	**120s**	26
Number of rings	**4 Rings**	26
Call screening	**On**	26

Caller's recording time

You can change the maximum message recording time allotted to each caller.

1 **[MENU]** (right soft key) → ✉ → **[OK]**
2 **[▲]/[▼]**: "**Settings**" → **[OK]**
3 **[▲]/[▼]**: "**Recording Time**" → **[OK]**
4 **[▲]/[▼]**: Select the desired setting. → **[OK]** → **[✆]**

Number of rings

You can change the number of times the phone rings before the unit answers calls. You can select 2 to 7 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 25), 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 **[MENU]** (right soft key) → ✉ → **[OK]**
2 **[▲]/[▼]**: "**Settings**" → **[OK]**
3 **[▲]/[▼]**: "**Number of Rings**" → **[OK]**
4 **[▲]/[▼]**: Select the desired setting. → **[OK]** → **[✆]**

Note:

- If you set SMS "**On**" (page 20), the 1st ring does not sound when you receive a call.

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 23).
– 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.

Call screening

While a caller is leaving a message, you can screen the call through the base unit speaker.

1 **[MENU]** (right soft key) → ✉ → **[OK]**
2 **[▲]/[▼]**: "**Settings**" → **[OK]**
3 **[▲]/[▼]**: "**Call Screening**" → **[OK]**
4 **[▲]/[▼]**: "**On**" or "**Off**" → **[OK]** → **[✆]**

Note:

- You can adjust the call screening volume while you are screening the call and when the base unit is in standby mode.

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Operating additional units

Additional handsets

Up to 5 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.

Additional base units

Handsets can be registered to up to 4 base units, allowing you to add additional base units and extend the area in which your handset(s) can be used. You need to select the desired base unit to use the handset with (page 27).

Registering a handset to a base unit

The supplied handset and base unit are pre-registered. If for some reason the handset is not registered to the base unit (for example, Ⓨ flashes even when the handset is near the base unit), register the handset.

1 Press and hold **[📡]** on the base unit for about 5 seconds until a beep is heard.
- If all registered handsets start ringing, press **[📡]** to stop, then repeat this step.
- After a beep is heard, the rest of this procedure must be completed within 1 minute.

2 **[MENU]** (right soft key) → ✎ → **[OK]**

3 **[▲]/[▼]**: **"Registration"** → **[OK]**

4 **[▲]/[▼]**: **"Register Handset"** → **[OK]**

5 **[▲]/[▼]**: Select a base unit number. → **[OK]**
- This number is used by the handset as a reference only.
- The registered base unit is indicated by "∗".

6 **"Enter 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, Ⓨ will stop flashing. If the key tone is turned on (page 16), a confirmation tone will be heard.

Selecting a base unit

When a specific base unit is selected, the handset will make and receive calls using that base unit only. If the handset is out of range of that base unit, no calls can be made.

1 **[MENU]** (right soft key) → ✎ → **[OK]**

2 **[▲]/[▼]**: **"Select Base"** → **[OK]**

3 **[▲]/[▼]**: Select the desired base unit. → **[OK]**
- The selected base unit is indicated by "▮" located on the left of the item on the display.
- The handset starts searching for the base unit.

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 **[MENU]** (right soft key) → ✎ → **[OK]**

2 **[▲]/[▼]**: **"Registration"** → **[OK]**

3 **[▲]/[▼]**: **"Deregistration"** → **[OK]**

4 Enter the base unit PIN (default: **"0000"**). → **[OK]**
- If you forget your PIN, consult your nearest Panasonic service centre.
- The numbers of all handsets registered to the base unit are displayed.
- The handset you are using is indicated by "▮" located on the left of the item on the display.

5 **[▲]/[▼]**: Select the handset(s) you want to cancel. → **[OK]**

6 **[YES]** → **[✆]**

Note:

- **"Register!"** is shown on the handset display when you cancel registration.

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- If you want to register the handset to other base unit(s), follow “Registering a handset to a base unit”, page 27.
- If the cancelled handset is registered to other base unit(s), select the base unit by following “Selecting a base unit”, page 27.
- If you do not use the handset, we recommend removing the battery to prevent malfunctioning.

Intercom between handsets

Intercom calls can be made between handsets.
Example: When handset 1 calls handset 2

1 **Handset 1:**
【INT】 → **【▲】**/**【▼】**: **“Handset 2”** (desired handset number). → **【OK】**

2 **Handset 2:**
【✆】

3 When finished talking, press **【✆】**.

Transferring calls between handsets, conference calls

Outside calls can be transferred between 2 people. 2 people can have a conference call with an outside party.
Example: When handset 1 transfers a call to handset 2

1 **Handset 1:**
During an outside call, press **【INT】**. → **【▲】**/**【▼】**: **“Handset 2”** (desired handset number). → **【OK】**
- The outside call will be put on hold.
- If there is no answer, press **【✆】** to return to the outside call.

2 **Handset 2:**
【✆】
- Handset 2 can talk with handset 1.

3 **Handset 1:**
- To complete the call transfer, press **【✆】**.
- To establish a conference call, press **【CONF】**.
  - Pressing **【↩】** puts the external party on hold, establishing an intercom call with handset 2.
- To switch between handset 2 and the outside call, press **【SWAP】**.

Note:
- You can also press **【◄/⊠】** to mute the conference call. Press **【◄/⊠】** again to resume the conference call.

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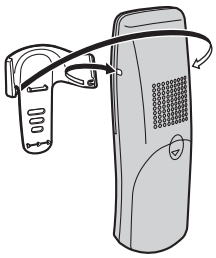
Using the belt clip

Attaching the belt clip



Removing the belt clip

Character entry

The dial keys are used to enter characters and numbers. Each dial key has multiple characters assigned to it. 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 【DEL】 to erase the character or number left of the cursor. Press and hold 【DEL】 to erase all characters or numbers.
– Press 【✳】 to switch between uppercase and lowercase.
– To enter another character located on the same dial key, press 【►】 or wait 2 seconds to move the cursor to the next space, then press the appropriate dial key.
– 【DEL】 and 【OK】 are valid when the character list is shown on the bottom of the handset display.

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' ( ) ✳ , - . / 1	A À Á Â Ã Ä Å Ą Æ B C Ç Ć Č A B Γ 2	D Ď E È É Ê Ë Ę Ě Ē F Δ E Z 3	G Ğ H I Ì Í Î Ï Ī İ Ĭ H Θ I 4	J K L Ł Ĺ Ľ K Λ M 5	M N Ñ Ń Ň O Ò Ó Ô Õ Ö Ő Ø N Ξ O 6	P Q R Ŗ Ř S Ś Ş Š ß Π P Σ 7	T Ť U Ù Ú Ů Ü Ũ Ű ů V T Y Φ 8	W Ŵ X Y ỳ Ý ŷ Z Ź Ż Ž X Ψ Ω 9
		a à á â ã ä å ą æ b c ç ć č a b γ 2	d ď e è é ê ë ę ě ē f Δ e z 3	g ğ h i ì í î ï ī ı ĭ H θ I 4	j k l ł ĺ ľ k λ m 5	m n ñ ń ň o ò ó ô õ ö ő ø n ξ o 6	p q r ŗ ř s ś ş š ß π p σ 7	t ť u ù ú ů ü ũ ű ů v t y φ 8	w ŵ x y ỳ ý ŷ z ź ż ž x ψ ω 9

- The following are used for both uppercase and lowercase:

Ą Ć Č A B Γ Ę Δ E Z H Θ I Ł Ĺ Ľ K Λ M Ń N Ξ O Ŗ Ś Ş Š ß Π P Σ ů T Y Φ Ŵ ỳ ŷ Ź Ż Ž X Ψ Ω

When writing SMS messages

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space . @ / : ; ✳ # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ | < > = ¤ §	A À Á Â Ã Ä Å Æ B C Ç A B Γ 2	D E È É Ê Ë Ē F Δ E Z 3	G Ğ H I Ì Í Î Ï Ī İ H Θ I 4	J K L K Λ M 5	M N Ñ O Ò Ó Ô Õ Ö Ø N Ξ O 6	P Q R S Ş ß Π P Σ 7	T U Ù Ú Û Ü Ũ V T Y Φ 8	W X Y Z X Ψ Ω 9
		a à á â ã ä å æ b c ç A B Γ 2	d e è é ê ë ē f Δ E Z 3	g ğ h i ì í î ï ī ı H Θ I 4	j k l K Λ M 5	m n ñ o ò ó ô õ ö ø N Ξ O 6	p q r s Ş ß Π P Σ 7	t u ù ú û ü ũ v T Y Φ 8	w x y z X Ψ Ω 9

- The following are used for both uppercase and lowercase:

A B Γ Δ E Z H Θ I K Λ M N Ξ O Ş ß Π P Σ T Y Φ X Ψ Ω

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Error messages

Error message	Cause & solution
Answer Sys. Full[*1]	● Erase unnecessary messages (page 24).
Busy	● Intercom call failed (the other handset cannot be found or is on an outside call). Try again later. ● Another handset is being used. Try again later. ● Cancelling a handset failed. Try again (page 27).
No Base Found	● Handset registration failed (page 27). Try again.
SMS Full	● Erase unnecessary messages (page 21, 22).
SMS Transf.Fail.	● The message failed to be sent. Try again (page 21).
Wrong PIN!	● Insert the correct base unit PIN. If you forget your base unit PIN, consult your nearest Panasonic service centre. ● You entered the wrong remote access code in step 5, “Turning remote operation on”, page 25. Try again.

*1 KX-TG8090

Status messages

Status message	Meaning
-Answering-[*1]	● The unit answers a call, callers are greeted by a greeting messages. ● The answering system is being used remotely.
TAM Consulting[*1]	● The base unit or other handset(s) are operating the answering system. ● The answering system is being used remotely.

*1 KX-TG8090

Troubleshooting

If you still have difficulties after following the instructions in this section, disconnect the base unit AC adaptor and remove the handset batteries. Then reconnect the base unit AC adaptor and install the batteries.

Telephone

Problem	Cause & solution
Y is flashing and **“Register!”** is shown on the handset display.	● The handset is cancelled. If you want to register the handset to the base unit(s), follow “Registering a handset to a base unit”, page 27. If you want to use a base unit(s) which was registered to the handset before cancellation, select it by following “Selecting a base unit”, page 27.

Useful Information

Problem	Cause & solution
Y is flashing and **"Searching..."** is shown on the handset display.	• The handset is too far from the base unit. Move closer. • The base unit AC adaptor is not connected. Check the connections. • You may have selected the wrong base unit. Select the right base unit (page 27). • 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.
The handset display is blank.	• The handset is in screen saver mode (page 11). If charging, lift the handset to activate the handset display again. If the handset is not on the base unit or charger, activate the handset display again by: – pressing 【▲】 or 【▼】 when on a call or operating the answering system – pressing 【✂】 for all other times • **"Dimmed Backlight"** is set to **"Off"**. Change the setting (page 16).
The handset will not turn on.	• Make sure that the batteries are installed correctly (page 10). • Fully charge the batteries (page 10). • Clean the charge contacts and charge again (page 10).
I have changed the display language to a language I cannot read.	• Change the display language (page 11).
I cannot make or receive calls.	• The base unit AC adaptor or telephone line cord is not connected. Check the connections. • 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. • 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. • The dialling mode setting is incorrect. Set to **"Tone"** or **"Pulse"** as needed (page 12). • The key lock feature is turned on. Turn it off (page 14).
The unit does not ring.	• The ringer volume is turned off. Adjust the ringer volume (page 16, 18).
The batteries should be charging but the battery icon does not change.	• Clean the charge contacts and charge again (page 10).
A busy tone is heard when 【✆】 is pressed.	• The handset is too far from the base unit. Move closer and try again. • Another handset is in use or the answering system is being used. Wait and try again later.

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Problem	Cause & solution
Static is heard, sound cuts in and out. Interference from other electrical units.	• Place the handset and the base unit away from other electrical appliances. • Move closer to the base unit. • Your unit is connected to a telephone line with DSL service (page 34).
Noise is heard during a call.	• 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.
The handset/base unit stops working while being used.	• Disconnect the base unit AC adaptor and remove the handset batteries. Connect the base unit AC adaptor, install the batteries and try again.
The handset beeps intermittently and/or flashes.	• Fully charge the batteries (page 10).
I fully charged the batteries, but still flashes.	• Clean the charge contacts and charge again (page 10). • It is time to replace the batteries (page 10).
I fully charged the batteries, but the operating time seems to be short.	• Wipe the battery ends (⊕, ⊖) and the unit contacts with a dry cloth.
Caller information is not displayed.	• You need to subscribe to Caller ID service. Consult your service provider/telephone company for details. • Your unit is connected to a telephone line with DSL service (page 34).
I cannot register a handset to a base unit.	• The maximum number of handsets (5) are already registered to the base unit. Cancel unused handset registrations from the base unit (page 27). • You entered the wrong PIN. If you forget your PIN, consult your nearest Panasonic service centre. • Place the handset and the base unit away from other electrical appliances.
I cannot make intercom or transfer calls.	• Select the same base unit for each handset (page 27).

SMS (Short Message Service)

Problem	Cause & solution
I cannot send or receive SMS messages.	• SMS is set to **"Off"**. Set it to **"On"** (page 20). • You have not subscribed to the appropriate service. Consult your service provider/telephone company. • The SMS message centre number(s) are not stored or are incorrect. Store the correct numbers (page 20). • Message transmission was interrupted. Wait until the message has been sent before using other telephone functions. • Your unit is connected to a telephone line with DSL service (page 34).
The handset does not ring when I receive SMS messages.	• SMS alert is off. Set SMS alert **"On"** (page 22).

Answering system (KX-TG8090)

Problem	Cause & solution
The unit does not record new messages.	• The answering system is turned off. Turn it on (page 23). • 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 26).
I cannot operate the answering system with the handset or the base unit.	• The base unit or another handset is being used. Wait for the other user to finish. • A caller is leaving a message. Wait for the caller to finish. • The handset is too far from the base unit. Move closer.
I cannot operate the answering system remotely.	• You are entering the wrong remote access code. If you forget the remote access code, store a new remote access code (page 25). • Press each key firmly. • The answering system is turned off. Follow the steps in "When the answering system is off", page 25. • You are using a rotary/pulse telephone. Try again using a touch-tone phone. • Remote operation is not available unless you change the remote access code from the default setting (**"0000"**). Change the remote access code.
While recording a greeting message or listening to messages, the unit rings and recording stops.	• A call is being received. Answer the call and try again later.
The call screening setting turns **"On"** or **"Off"** even though I set it differently.	• You pressed 【▲】 or 【▼】 when screening a call or when the base unit was in standby mode. Set the call screening setting again (page 26).

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.

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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. 2.0 W
Maximum: Approx. 7.0 W
Charger[*1]:
Standby: Approx. 1.5 W
Maximum: Approx. 3.0 W

■ **Operating conditions:**
5 °C–40 °C, 20 %–80 % relative air humidity (dry)

■ **Dimensions:**
Base unit[*2]: Approx. 53 mm × 108 mm × 120 mm
Base unit[*3]: Approx. 53 mm × 139 mm × 120 mm
Handset: Approx. 145 mm × 49 mm × 32 mm
Charger[*1]: Approx. 51 mm × 87 mm × 100 mm

■ **Mass (weight):**
Base unit[*2]: Approx. 140 g
Base unit[*3]: Approx. 210 g
Handset: Approx. 130 g
Charger[*1,*4]: Approx. 270 g

*1 KX-TG8072
*2 KX-TG8070/KX-TG8072
*3 KX-TG8090
*4 Includes the AC adaptor.

Note:

- Specifications are subject to change.
- The illustrations used in these operating instructions may differ slightly from the actual product.

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■ **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

■ **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 Communications Co., Ltd.
1-62, 4-chome, Minoshima, Hakata-ku, Fukuoka 812-8531, Japan

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