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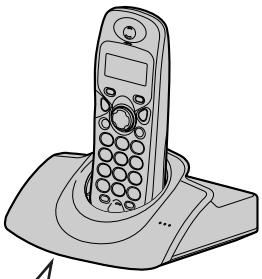
Panasonic



Charge the batteries for about 7 hours before initial use.

Operating Instructions

Digital Cordless Phone

Model No. **KX-TCD150FX**

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Preparation **3**
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Phonebook **9**
Useful Telephone Settings **10**
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You must subscribe to Caller ID service to use this feature.

Caller ID

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

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 unit)
Date of purchase
Name and address of dealer

Note:

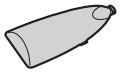
- In the event of problems, you should contact your equipment supplier in the first instance.

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:
Panasonic Services Europe
a Division of Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Germany

Included accessories

AC adaptor PQLV19CE 	Telephone line cord 	Rechargeable batteries AAA (R03) size HHR-4EPT
Handset cover 	Operating instructions 	

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Important information

General

- Use only the AC adaptor included with this product, noted on page 2.
- 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.
  - The call bar feature is turned on (only phone numbers stored in the unit as emergency numbers can be called).
- Do not open the base unit or handset other than to replace the battery(ies).
- This product should not be used near emergency/intensive care medical equipment and should not be used by people with pacemakers.
- Care should be taken that objects do not fall onto, and liquids are not spilled into, the unit. Do not subject this product to excessive smoke, dust, mechanical vibration or shock.
- Only the included handset can be used with the base unit. No other handsets can be registered or used.

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.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the unit and is easily accessible.

Warning:

- To prevent the risk of electrical shock, do not expose this product to rain or any other type of moisture.
- Unplug this unit 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 and contact an authorised service centre.

Battery caution

- We recommend using the battery(ies) noted on page 2. **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 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) in accordance with the information provided in these operating instructions.
- Only use the included 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.

Safety caution

The ringer tone is reproduced through the handset receiver. To avoid damage to hearing, we recommend you answer

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incoming calls before holding the phone to your ear.

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.

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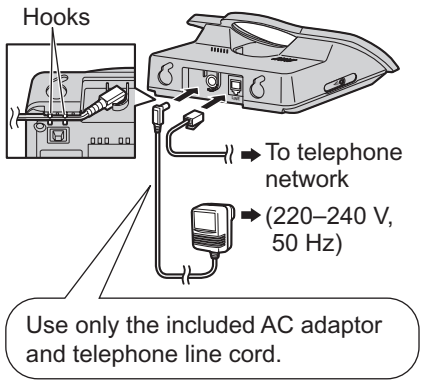
Connections



Note:

- Never install telephone wiring during a lightning storm.
- Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.
- To turn the power on, press 【☎/⏻】 for about 1 second.
- To turn the power off, press 【☎/⏻】 for about 2 seconds.

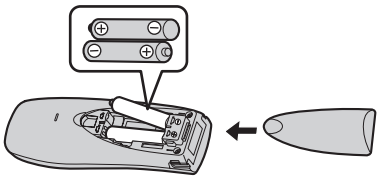
Location

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.

Battery installation

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



Note:

- Use only rechargeable batteries (page 2).

Battery charge

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

Battery strength

Battery icon	Battery strength
	Fully charged.
	High
	Medium
	Low
	Needs to be charged.

Battery life

Panasonic Ni-MH batteries (700 mAh)

Operation	Operating time
While in use (talking)	10 hours max.
While not in use (standby)	120 hours max.

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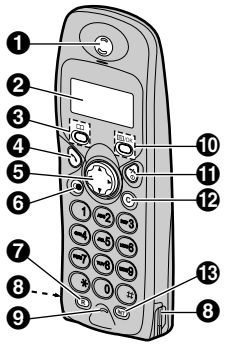
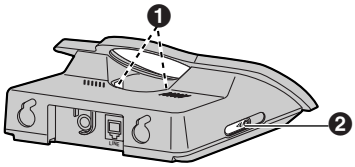
Controls

Handset



❶ **Receiver**
❷ **Display**
❸ **【📖】(Phonebook)**
❹ **【📞】(Talk)**
❺ **Navigator (【▲】/【▼】/【▶】/【◀】)**
❻ **【↻】(Redial/Pause)**
❼ **【R】(Recall)**
❽ **Charge contacts**
❾ **Microphone**
❿ **【☰/OK】(Menu/OK)**
⓫ **【⏻】(Off/Power)**
⓬ **【C】(Clear)**
⓭ **【INT】(Intercom)**

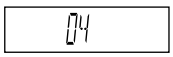
Base unit



❶ **Charge contacts**
❷ **【📢】(Page)**

Displays

Icons	Meaning
	Within range of base unit
	Out of range, no registration or no power on base unit
	Paging, intercom mode or accessing base unit
	Making or answering a call
	Phonebook mode
	Setting mode
	Battery strength
	Call bar is on (page 10).
	Direct call is on (page 10).
	Key lock is on (page 8).
	Ringer volume is off (page 10).
	Displayed when you press 【#】.
	Displayed when base unit number is selected for standby mode display (page 10).
	Displayed when handset number is selected for standby mode display (page 10).



4 new calls
When new calls have been received, the display will show the number of new calls.

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Symbols used in this manual

These are the symbols that will navigate through these operating instructions.

Symbol	Meaning
【▤/OK】	Press 【▤/OK】.
→	Proceed to the next operation.
" "	Press 【▲】 or 【▼】 to select the words in quotations shown on the display.

Display language

To change the display language

1 【▤/OK】

2 "SETTING HS" (【▼】) → 【▶】

3 "DISPLAY OPT" → 【▶】

4 "LANGUAGE" → 【▶】

5 Select the desired language. → 【▶】 → 【✆⏻】

Note:

- If you select a language you cannot read, reset the handset to its default settings:
  - 【▤/OK】 → 【▼】 → 【▶】 → 【▲】 → 【▶】
  - Enter handset PIN (default: "0000").
  - 【▼】 → 【▶】 → 【✆⏻】

Setting dialling mode (tone/pulse)

Change the dialling mode depending on your telephone line service.
"1" (Tone): Select when you have a touch tone service.
"2" (Pulse): Select when you have pulse service.

1 【▤/OK】

2 "SETTING BS" (【▼】) → 【▶】 → 【3】

3 Enter base unit PIN (default: "0000").
- If you changed PIN, enter it (page 12).

4 【1】

5 Select the desired setting by pressing 【1】 for tone dialling mode or 【2】 for pulse dialling mode.

6 【▶】 → 【✆⏻】

Setting the date and time

Important:

- Confirm that the AC adaptor is connected.

1 【▤/OK】

2 "SETTING BS" (【▼】) → 【▶】 → 【✳】

3 Enter the current hour and minute (24-hour time entry).
- If you make a mistake, press 【C】. Digits will be cleared from the right.

4 【▶】 2 times → 【✳】 2 times

5 Enter the current day, month and year.
- If you make a mistake, press 【C】. Digits will be cleared from the right.

6 【▶】 → 【✆⏻】

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Making calls

1 Dial the phone number. → 【📞】

2 When finished talking, press 【📴】 or place the handset on the base unit.

Answering calls

1 Press 【📞】 to answer the call.

- You can also answer a call by pressing any dial key from **【0】** to **【9】**, 【✳】, 【#】, or **【INT】**. **(Any key answer feature)**

2 When finished talking, press 【📴】 or place the handset on the base unit.

Handset locator

1 Press 【📢】 on the base unit.

2 To stop paging, press 【📢】 on the base unit or press 【📞】 on the handset.

To adjust the receiver volume

Press 【▲】 or 【▼】 while on a call.

Pause button (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service. Pressing 【C●】 1 time creates 1 pause. Press 【C●】 repeatedly to create longer pauses.

Temporary tone dialling (for rotary or 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.

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

Redialling/storing/editing before calling/erasing

1 【C●】 → Select the item (【▼】).

2 ■ **Redialling:**
【📞】

■ **Storing:**
【▶】 → "SAVE TEL NO" → 【▶】 → 【☰/OK】 → Enter the name (9 characters max.; page 9). → 【☰/OK】

■ **Editing before calling:**
【▶】 → "EDIT CALL NO" → 【▶】 → Edit the number. → 【📞】

■ **Erasing:**
【▶】 → "CLEAR"/"ALL CLEAR" → 【▶】 → "YES" → 【▶】 → 【📴】

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 **【☰/OK】** for about 2 seconds.
To turn key lock off, press **【☰/OK】** for about 2 seconds.

R button (to use the recall feature)

【R】 is used to access optional telephone services. Contact your service provider for details.

Note:

- If your unit is connected to a PBX (private branch exchange), consult your PBX dealer for details.

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Adding entries to the phonebook

The phonebook allows you to make calls without having to dial manually. You can add 20 names and phone numbers to the phonebook.

1 **【▤/OK】** 2 times

2 Enter the party's phone number (24 digits max.). → **【▤/OK】**

3 Enter the party's name (9 characters max.). → **【▤/OK】** → **【⏻】**

Note:

- When caller information is received and it matches a phone number stored in the unit's phonebook, the stored name will be displayed.

Character table

Keys	Characters
【1】	# [ ] * , – / 1
【2】	A B C 2
【3】	D E F 3
【4】	G H I 4
【5】	J K L 5
【6】	M N O 6
【7】	P Q R S 7
【8】	T U V 8
【9】	W X Y Z 9
【0】	(Space) 0

To edit/correct a mistake

1 Move the cursor to the right of where you want to correct the number/character (**【◀】**/**【▶】**).

2 **【C】** → Enter the correct number/character.

Making calls/editing/erasing

1 **【📖】** → Display the desired entry (**【▲】**/**【▼】**).

2 ■ **Making calls:**
【📞】
■ **Editing:**
【▶】 → "**EDIT**" → **【▶】** → Edit the phone number. → **【▤/OK】** → Edit the name. → **【▤/OK】**
■ **Erasing:**
【▶】 → "**CLEAR**" → **【▶】** → "**YES**" → **【▶】** → **【⏻】**

Hot key (quick dial)

Assigning an entry in the phonebook to a hot key

Dial keys **【1】** to **【9】** can each be used as a "hot key", allowing you to dial a number from the phonebook by simply pressing a dial key.

1 **【📖】** → Display the desired entry (**【▲】**/**【▼】**). → **【▤/OK】**

2 "**HOT KEY REG**" → **【▶】**

3 Select the desired dial key. → **【▶】**

- If the dial key is already assigned as a hot key, the displayed number will flash.

4 "**YES**" → **【▶】** → **【⏻】**

Making calls/erasing

1 Press and hold the desired hot key (**【1】** to **【9】**).

2 ■ **Making calls:**
【📞】
■ **Erasing:**
【▶】 2 times → "**YES**" → **【▶】** → **【⏻】**

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Guide to handset settings

To customise the handset:

1 【▤/OK】 → "SETTING HS" → 【▶】

2 Select the desired item in the handset settings menu (【▼】). → 【▶】

3 Select the desired item in sub-menu (【▼】). → 【▶】

4 Select the desired setting (【▼】) or follow the instructions in the "Feature" column of the chart.

- To exit the operation, press 【✆⏻】.

Handset settings menu	Sub-menu	Feature (default setting)
TIME ALARM	SET TIME	Set time alarm. – Enter the desired hour and minute (24-hour time entry). → 【▶】 – Select the desired setting. → 【▶】
	SET ALARM	Change alarm frequency ("OFF").
RINGER OPT	RINGER VOL	Handset ringer volume (level 6)[*1]
	EXT RINGER	Ringer type for external calls ("RING TYPE 1")
	INT RINGER	Ringer type for internal calls ("RING TYPE 1")
	PAGING	Ringer type for page ("RING TYPE 1")
	ALARM	Ringer type for alarm ("RING TYPE 1")
TONE OPT	KEY TONE	Keytones on/off ("ON")
	CALL WAITING	Call waiting tone on/off ("ON")
	RANGE ALARM	Range alarm on/off ("OFF")
	BATTERY LOW	Battery low alarm on/off ("ON")
DISPLAY OPT	STANDBY MODE	Standby mode display ("CLOCK")
	TALK MODE	Talk mode display ("TALK TIME")
	LANGUAGE	Display language ("ENGLISH"): page 7
CALL OPT	CALL BAR	Call bar on/off ("OFF")[*2] – Enter handset PIN (default: "0000"). – Select the desired setting. → 【▶】
	DIRECT NO	Store direct call number.[*3] – Enter a phone number (24 digits max.). – 【▤/OK】 2 times → "ON"
	SET DIRECT	Direct call on/off ("OFF")

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Handset settings menu	Sub-menu	Feature (default setting)
OTHER OPT	**HSPIN CHANGE**	Change handset PIN (“**0000**”).*4 – Enter the current 4-digit handset PIN. – Enter the new 4-digit handset PIN. – Enter the new 4-digit handset PIN again.
	AUTO TALK	Auto talk on/off (“**OFF**”)*5
RESET HS	————	Reset handset to its default settings. – Follow steps 1 and 2. – Enter handset PIN (default: “**0000**”). – 【▼】→【▶】

*1 If you set to level 3 to 6 or ✳6, each ringer will start ringing with lower volume, then gradually increase in volume when receiving a call. Levels 6 and ✳6 are the highest settings. Their ringing methods are slightly different.

*2 Call bar feature prohibits making outside calls. When call bar is turned on, only emergency calls can be made. To store emergency numbers, see page 13.

*3 Direct call feature allows you to dial a preset phone number simply by pressing 【📞】. No dialling is necessary.

*4 If you change the PIN, please write down your new PIN as the unit will not reveal the PIN to you. If you forget your PIN, consult your nearest Panasonic service centre.

*5 Auto talk feature allows you to answer calls simply by lifting the handset off the base unit. You do not need to press 【📞】.

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Guide to base unit settings

To customise the base unit:

1 【▤/OK】 → “SETTING BS” → 【▶】
- “INPUT CODE” is displayed.

2 Enter the desired code number. Follow the instructions in the “Feature” column of the chart.
- To exit the operation, press 【↶⏻】.

Code No.	Feature (Default setting)
【0】	Reset base unit to its default settings.*1 – Enter base unit PIN (default: “0000”). → 【▶】
【2】【2】	Base unit ringer volume (Medium) – Select the desired setting by pressing 【1】 for low, 【2】 for medium, 【3】 for high or 【0】 for off. → 【▶】
【3】	Dialling mode (Tone): page 7
	Flash time (600 ms)*2 – Enter base unit PIN (default: “0000”). → 【2】 → 【1】 – Select the desired setting by pressing 【1】 for 100 ms, 【2】 for 600 ms or 【3】 for 300 ms. → 【▶】
	DTMF mode (Off): page 14
【5】	Change base unit PIN (“0000”).*3 – Enter the current 4-digit base unit PIN. – Enter the new 4-digit base unit PIN. – Enter the new 4-digit base unit PIN again.

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Code No.	Feature (Default setting)
【6】	Call restriction*4 ■ **Setting call restriction** – Enter base unit PIN (default: "0000"). → 【1】 → 【▸】 – Enter the phone number to be restricted (8 digits max.). ● To select a different memory location, press 【▸】 repeatedly and enter a number. – 【▸】 ■ **Turning on/off call restriction** – Enter base unit PIN (default: "0000"). ● Handset number will be displayed. Flashing number indicates call restriction is on; non-flashing number indicates call restriction is off. – Press 【1】 to turn on/off. → 【▸】
	Emergency number*5 – Enter base unit PIN (default: "0000"). → 【✳】 ■ **Storing:** – Enter the emergency number (8 digits max.). ● To select a different memory location, press 【▸】 and enter a number. – 【▸】 ■ **Editing:** Display the desired number (【▸】). → 【C】 → Enter the new emergency number. → 【▸】
【✳】	Time and date: page 7

*1 Only the emergency number setting will not be reset.
*2 Change the flash time if necessary to suit your PBX or service provider. For further information, consult your nearest Panasonic service centre.
*3 If you change the PIN, please write down your new PIN as the unit will not reveal the PIN to you. If you forget your PIN, consult your nearest Panasonic service centre.
*4 Call restriction feature restricts the handset from dialling certain phone numbers. You can assign up to 10 phone numbers (memory locations 0–9) to be restricted.
*5 Emergency number feature determines which phone numbers may be dialled while the call bar feature is turned on. A total of 4 emergency numbers (memory locations 1–4) can be stored.

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Using Caller ID service

Important:

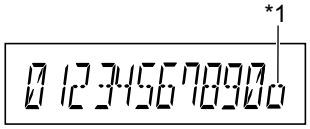
- This unit is Caller ID compatible. To use Caller ID features (such as displaying caller phone numbers), you must subscribe to Caller ID service. Consult your service provider for details.

Caller ID features

Display indications

- When new calls have been received, the display will show the number of new calls.
  Example: 4 new calls have been received.

- Phone numbers of the last 50 different callers will be logged in the caller list.
  Example:



*1 Shown when this call has already been viewed or answered. Press 【📞】 to call back.

- "**OUT OF AREA**": When the caller dialled from an area which does not provide Caller ID service.
- "**PRIVATE**": When the caller requested not to send caller information.

DTMF mode setting

Certain service providers send caller information between the first and second rings. If the display does not show caller information after a few rings, follow these instructions to set DTMF mode.

1 【▤/OK】

2 "**SETTING BS**" → 【▶】 → 【3】

3 Enter base unit PIN (default: "**0000**").

- If you changed PIN, enter it (page 12).

4 【4】

5 Select DTMF mode by pressing 【2】.

6 【▶】 → 【✂⏻】

- To cancel DTMF mode, press 【1】 in step 5.

Storing/editing/erasing

1 Display the desired entry (【▲】/【▼】). → 【▶】

2 ■ **Storing:**
"**SAVE TEL NO**" → 【▶】 → 【▤/OK】 → Enter the party's name (9 characters max.; page 9). → 【▤/OK】 → 【✂⏻】

■ **Editing:**
"**EDIT CALL NO**" → 【▶】
Move the cursor to the right of where you want to edit the number (【◀】/【▶】). → Edit the phone number. → 【📞】

■ **Erasing:**
"**CLEAR**"/"**ALL CLEAR**" → 【▶】 → "**YES**" → 【▶】 → 【✂⏻】

Voice mail service

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

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Troubleshooting

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

Problem	Cause & solution
Ⓨ is flashing.	● The handset is too far from the base unit. Move closer. ● The AC adaptor is not connected. Check the connections. ● You are using the handset or base unit in an area with high electrical interference. Locate the handset and base unit away from interference sources, such as antenna and mobile phones. ● The handset registration is cancelled. Register the handset to the base unit using the following method. **1** 【▤/OK】 **2** "SETTING HS" → 【▶】 **3** "REGISTRATION" → 【▶】 **4** "REGISTER HS" → 【▶】 **5** Press and hold 【•))】 on the base unit until the registration tone sounds. ● The rest of the procedure must be completed within 1 minute. **6** Select a base unit number (【▼】). → 【▶】 **7** Wait until "BS PIN" is displayed. → Enter base unit PIN (default: "0000"). → 【▶】 ● A confirmation tone will sound, and Ⓨ will stop flashing.
I cannot make or receive calls.	● The AC adaptor or telephone line cord is not connected. Check the connections. ● The call bar feature is turned on. Turn it off (page 10). ● You dialled a call restricted number (page 13). ● The key lock feature is turned on. Turn it off (page 8). ● The dialling mode setting is incorrect. Set to "Tone" or "Pulse" as needed (page 7).
The unit does not ring.	● The ringer volume is turned off. Adjust the ringer volume (page 10, 12).

Useful Information

Problem	Cause & solution
The handset display is blank.	● The handset is not turned on. Turn the power on (page 5).
The handset will not turn on.	● Make sure that the batteries are installed correctly (page 5). ● Fully charge the batteries (page 5).
A busy tone is heard when 【📞】 is pressed.	● The handset is too far from the base unit. Move closer and try again.
Static, sound cuts in/out, fades. Interference from other electrical units.	● Locate 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. We recommend connecting a filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.
Noise is heard during a call.	● You are using the handset or base unit in an area with high electrical interference. Locate the handset and base unit away from interference sources, such as antenna and mobile phones.
Pressing 【C●】 does not display/ dial the last number dialled.	● The redialled number was more than 24 digits long. Redial the number manually.
I fully charged the batteries, but 🔋 still flashes.	● Clean the charge contact and charge again (page 5). ● It is time to replace the batteries (page 5).
Caller information is not displayed.	● You must subscribe to Caller ID service. ● Your unit is connected to a telephone line with DSL service. 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)

■ **Number of channels:** 120 Duplex Channels

■ **Frequency range:** 1.88 GHz to 1.9 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

■ **Power source:** 220–240 V, 50 Hz

■ **Power consumption, Base unit:**
Standby: Approx. 3.5 W
Maximum: Approx. 9.2 W

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

■ **Dimensions:**

Base unit: Approx. 58 mm × 123 mm × 115 mm

Handset: Approx. 143 mm × 48 mm × 32 mm

■ **Mass (weight):**

Base unit: Approx. 185 g

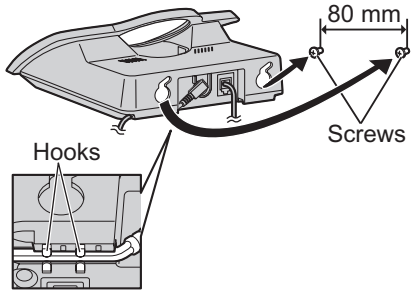
Handset: Approx. 115 g

Note:

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

Connections:
The unit will not work during a power failure. We recommend you connect a standard telephone on the same line for power protection.

Wall mounting



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