



Panasonic

Operating Instructions

Conference Recording Speakerphone System

Model No. KX-TS730EX





This unit is compatible with Caller ID. To use this feature, you must subscribe to the appropriate service offered by your service provider.

Please read these Operating Instructions before using the unit and save for future reference.

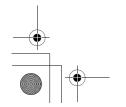










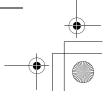
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Introduction

Thank you for purchasing a Panasonic Conference Recording Speakerphone System.

We recommend keeping a record of the following information for future reference.

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

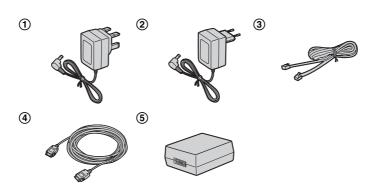
Attach your purchase receipt here.

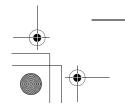
Accessory information

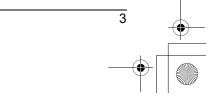
Included accessories



No.	Accessory items	Part No.	Quantity
1	AC adaptor (PQLV206E) (For UK, R.O.I. and countries where an UK type plug is used)	PQLV206EZ	1
2	AC adaptor (PQLV206CE) (For other countries)	PQLV206CEZ	1
3	Telephone line cord	PQJA10075Z	1
4	Interface cable	PQJA10170Z	1
(5)	Interface box	PQLP10265W	1

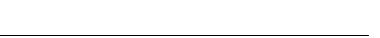












Important safety instructions

Introduction

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

- 1. Read and understand all instructions.
- 2. Follow all warnings and instructions marked on this unit.
- Unplug this unit from power outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- Do not use this unit near water, for example near a bathtub, wash bowl, kitchen sink, etc.
- 5. Place the unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
- 6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
- Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- 8. Do not place objects on the mains lead. Install the unit where no one can step or trip on the cord.
- 9. Do not overload power outlets and extension cords. This can result in the risk of fire or electric shock.
- Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
- 11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorised service centre when service is required. Opening or removing covers may expose you to dangerous voltages or other risks.

- Incorrect reassembly can cause electric shock when the unit is subsequently used.
- 12. Unplug this unit from power outlets and refer servicing to an authorised service centre when the following conditions occur:
 - A. When the mains lead is damaged or frayed.
 - B. If liquid has been spilled into the unit.
 - C. If the unit has been exposed to rain or water.
 - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorised service centre.
 - E. If the unit has been dropped or physically damaged.
 - F. If the unit exhibits a distinct change in performance.
- 13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
- 14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION:

Installation

- Never install telephone wiring during a lightning storm.
- Never install telephone sockets in wet locations unless the socket is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.















 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 fire or electrical shock, do not expose this product to rain or any type of moisture.
- Unplug this unit from power outlets if it emits smoke, an abnormal smell or makes an unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped and contact an authorised service centre.

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.

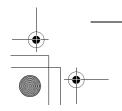
Information on Disposal in other Countries outside the European Union This symbol is only valid in the European

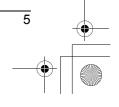
This symbol is only valid in the European Union.

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

















Introduction

For best performance

Environment

- Keep the unit away from electrical noise generating devices, such as fluorescent lamps and motors.
- The unit should be kept free from excessive smoke, dust, high temperature and vibration.
- The unit should not be exposed to direct sunlight.
- Do not place heavy objects on top of the unit
- When you leave the unit unused for a long period of time, unplug this unit from power outlet.
- The unit should be kept away from heat sources such as heaters, kitchen stoves, etc. It should not be placed in rooms where the temperature is less than 5 °C or greater than 40 °C. Damp basements should also be avoided.

Routine care

 Wipe the outer surface of the unit with a soft cloth. Do not use benzine, thinner or any abrasive powder.

Operation

- At the beginning of a call, both parties should speak alternately. This enables the unit to adapt to its environment and let both parties speak effectively.
- Do not move the unit while it is in use.
- Keep your hands away from the unit during calls.
- Keep files, cups, coffee pots, etc., away from the unit.
- Use the unit in a quiet room.
- This unit is designed to be used in a room that is no more than 35.3 m² in area.



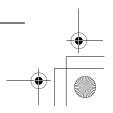




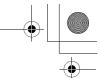






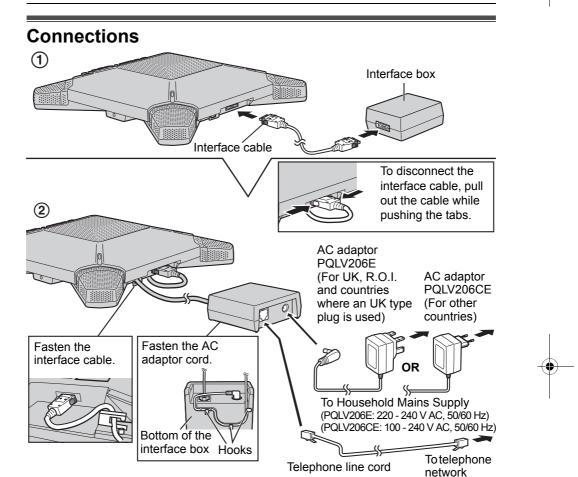






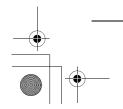


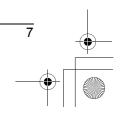
Preparation



Note:

- Use only provided Panasonic AC adaptor PQLV206E (9 V/750 mA) or PQLV206CE (9 V/750 mA) for proper product operation. In case of power failure, this product will not work.
- 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.
- Never install telephone wiring during a lightning storm.











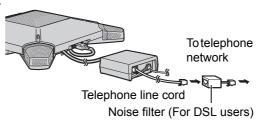




If you subscribe to a DSL service

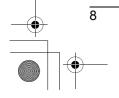
- Please attach a noise filter (contact your DSL provider) to the telephone line between the interface box and the telephone network in the event of the following:

 - Noise is heard during conversations.Caller ID features (page 16) do not function properly.











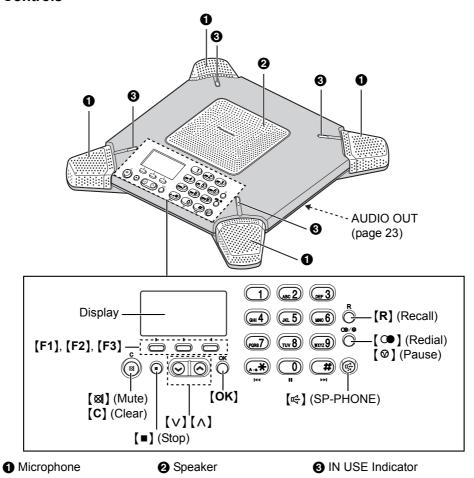






Controls and displays

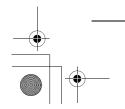
Controls



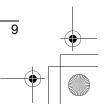
Using the $[\lor]$ and $[\land]$ keys



- The keys work as the speaker volume keys (page 11).
- Pressing the keys allows you to scroll through function menu (page 20).
- Pressing the keys allows you to enter the caller list (page 16).











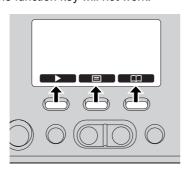


Preparation

Function keys ([F1], [F2], [F3])

By pressing a function key, you can select the function displayed directly above it.

- The functions displayed will vary depending on how you are using the unit.
- When a function does not appear or is displayed above a function key, the function key will not work.



 In these operating instructions, function key names are written inside brackets, the same way as the unit keys.
 Example:

Unit keys: [♣], [■], etc.

Function keys: $[\triangleright]$, $[\sqsubseteq]$, $[\Box]$, etc.

Setting the unit before use

Setting the dialling mode

If you cannot make calls, change this setting depending on your telephone line service.

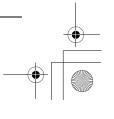
"Tone" (default): For tone dial service. "Pulse": For rotary pulse dial service.

- 1 Press [国] ([F2] key), then press [坩], [1], [2], [0].
- 2 Press [1] (Pulse) or [2] (Tone).
- **3** Press **(OK)**, then press **(■)**.







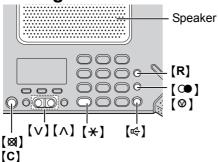






Making/Answering Calls





- 1 Press [₼].
 - IN USE indicators will light in green.
- **2** Dial the phone number.
- **3** When finished talking, press [♣].

Note:

- At the beginning of a call, both parties should speak alternately. This enables the unit to adapt to its environment and let both parties speak effectively.
- If the other party has difficulty hearing you, press [∨] to decrease the speaker volume.
- Use the unit in a quiet room.

To adjust the speaker volume

While using the speakerphone, press [V] or $[\Lambda]$ repeatedly.

16 levels (high to low) are available. "Receiver Volume" is displayed.

To dial after confirming the entered number

- **1** Enter the phone number.
 - To correct a digit, press [C]. Enter the correct number.
 - If a pause is required when dialling, press () where needed.
 - To cancel, press and hold [C] until the entered phone number disappears.

- 2 Press (♣) or (♠) ((F1) key).
- **3** When finished talking, press [♣] to hang up.

To redial the last number dialled

- 1 Press (\dagger).
- 2 Press [].

To make a call using the redial list

The last 10 phone numbers dialled are stored in the redial list.

- **1** Press [**○**].
 - The last number dialled will be displayed.
- 2 Press [v] or [Λ] repeatedly to display the desired number.

OR

Press [] repeatedly to display the desired number.

- To delete the displayed item, press
 [X] ([F1] key).
- To exit the list, press (■).
- **3** Press [♣] or [♠] ([F3] key).

PAUSE button (for PBX/long distance service users)

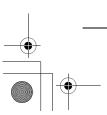
A pause is sometimes required when making calls using a PBX or long distance service

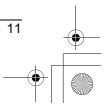
For example, if you need to dial the line access number "9" when making outside calls with a PBX:

- 1 Press [9].
- **2** Press (♥), then dial the phone number.
- **3** Press (□) or (¬) ([F1] key).

Note:

• To change the pause length, see page 22.









Making/Answering Calls

Answering calls

When a call is being received, the IN USE indicators flash.

- 1 Press (\dag{\psi}).
- 2 When finished talking, press [♣].

Adjusting the ringer volume

4 levels (high/medium/low/off) are available. To change the ringer volume setting, see page 21.

OR

While a call is being received, press [V] or [\Lambda] repeatedly to select the desired volume.

Useful features during a call

MUTE button

You can mute your voice during a conversation. 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 [図].

- "-Muting-" will be displayed and the IN USE indicators will light in red.
- To return to the conversation, press
 [⋈].

Recall button

Pressing **(R)** allows you to use special features of your host PBX such as transferring an extension call, or accessing optional telephone services such as Call Waiting.

Note:

• To change the recall time, see page 22.

For Call Waiting service users

To use Call Waiting, you must subscribe to Call Waiting service from your telephone service provider.

This feature allows you to receive calls while you are already talking on the phone. If you receive a call while on the phone, you will hear a Call Waiting tone. Press [R] to answer the 2nd call.

- The 1st call is put on hold while you answer the 2nd call.
- To switch between calls, press [R].

Note

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

Temporary tone dialling (for rotary/pulse service users)

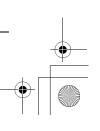
You can temporarily switch the dialling mode to tone when you need to access touch tone services (for example, answering services, telephone banking services, etc.).

Press [*] (TONE) before entering access numbers which require tone dialling.

Note

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











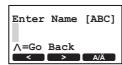


Using the phonebook

The phonebook allows you to make calls without having to dial manually. You can add 100 names and phone numbers to the phonebook and search for phonebook entries by name.

Adding items to the phonebook

- **1** Press [] (**[F3]** key).
 - The display shows the number of items in the phonebook.
- 2 Press [(F1 key).
- **3** Enter the name (max. 16 characters. See "Available character entries" for details).



- 4 Press [OK].
- **5** Enter the phone number (max. 32 digits).



- If a pause is required when dialling, press [@] where needed (page 11).
- 6 Press (OK).
 - To add other items, repeat from step
 - If you want to change the name and/ or number, see page 15.

7 Press (■).

 When "∧=Go Back" is displayed, you can go back to the previous screen by pressing [\(\)].

Available character entries

2 character entry modes (Alphabet character and Extended character) are available. To change the current character entry mode, press [A/Ä] ([F3] key) on the enter name screen.

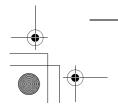
- When Alphabet character mode is selected, "[ABC]" is displayed on the enter name screen. When Extended character mode is selected, "[AÄÅ]" is displayed.
- To change between uppercase and lowercase (A \rightarrow a), press [\times].

Alphabet character table

Key	Characters
[0]	0 Space
[1]	#&'()*,/1
[2]	ABC2
	a b c 2
[3]	DEF3
	def3
[4]	GHI4
	ghi4
[5]	JKL5
	jkl5
[6]	M N O 6
	m n o 6
[7]	PQRS7
	pqrs7
[8]	TUV8
	t u v 8
[9]	WXYZ9
	w x y z 9
[#]	#

Extended character table

Key	Characters
[0]	0 Space
[1]	#&'()*,/1
[2]	ABCÀÁÂÃÄÅÆÇ2
	abcàáâãäåæç2









Phonebook

Key	Characters
[3]	DEFÈÉÊËË3
	defèéêëã3
[4]	GHIÌÍÎÏÏĬĬ4
	ghiìíîïĩıĭ4
[5]	JKL5
	jkl5
[6]	MNOÑÒÓÔÕÖø* ¹ 6
	mnoñòóôõöø* ¹ 6
[7]	PQRSŞ*1 ß 7
	pqrs \$* ¹ ß 7
[8]	T U V Ù Ú Û Ü Ű 8
	tuvùúûüũ8
[9]	W X Y Z Ŵ* ¹ 9
	w x y z Ŵ* ¹ 9
[#]	#

*1 The same letter as capital (or small) will be displayed.

To enter character or number

The dial keys can be used to enter characters. To enter a character, press the appropriate dial key, repeatedly if necessary. To enter another character that is located on the same dial key, first press [>] ([F2] key) to move the cursor to the next space.

To edit/correct a mistake

Press [<] ([F1] key) or [>] ([F2] key) to move the cursor to the character or number you wish to erase, then press [C]. Enter the appropriate character or number.

Note:

 Press and hold [C] to erase all characters or numbers.

Calling someone in the phonebook

Phonebook items can be searched for alphabetically by scrolling through the phonebook items.

- 1 Press [[]] ([F3] key).
- 2 Press [v] or [\Lambda] to scroll the phonebook items.
 - To exit the phonebook, press [■].
- **3** Press (♠) ((F1) key) or (♣).

To search for a name by initial

- **1** Press [[]] ([F3] key).
- 2 Press the dialling button ([0] to [9], [♯], or [★]) which corresponds to the first letter you are searching for (see the character table, page 13).

Example: "LISA"

Press **[5]** repeatedly to display any name with the initial "L".

- If there is no item corresponding to the letter you selected, the next item will be displayed.
- **3** Press [∨] or [∧] repeatedly to display the desired item.
 - To exit the phonebook, press [■].
 - To dial the displayed number, press
 ([F1] key) or [♣].

To search using [D]

- 1 Press [[]] ([F3] key).
- 2 Press (([F3] key).



Example: "sam"

Press [v] five times.

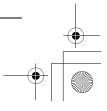
Press (>) ((F3) key) three times.

- 3 Press (OK).
 - If there is no item corresponding to the letter you selected, the next item will be displayed.
- **4** Press [∨] or [∧] repeatedly to display any name with the initial "s".

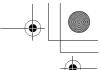




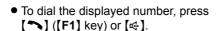












Editing items in the phonebook

- 1 Search the item you want to edit.
- **2** Press [国] (**[F2]** key).
- 3 Press [OK] at "Edit".
- **4** Edit the name if necessary. See the character table on page 13 for character entry.
- 5 Press (OK).
- **6** Edit the phone number if necessary.
- **7** Press **(OK)**.
 - To edit other items, repeat from step 1.
- 8 Press [■].

Erasing an item in the phonebook

- **1** Search the item you want to erase.
- 2 Press [] ([F2] key).
- **3** Press (∨) or (∧) to select "Erase".
- 4 Press (OK).
- **5** Press **[OK]** (**[F2]** key).
 - The unit key **[OK]** cannot be used in this step.
 - To cancel erasing, press (©) ((F1) key).
 - To erase other items, repeat from step 1.
- 6 Press (■).

Erasing all items in the phonebook

- 1 Press [[]] ([F3] key).
- 2 Press (**(F2)** key).

- 3 Press [OK] at "Erase All".
 - "Erase All?" will be displayed.
- 4 Press [OK] ([F2] key).
 - The unit key **[OK]** cannot be used in this step.
 - To cancel erasing, press (©) ((F1) key).
- **5** Press (■).

Chain dial feature

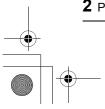
This feature allows you to dial phone numbers from the phonebook while you are on a call.

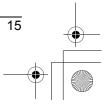
Example: Using a long distance calling card

- Dial from the phonebook: 8000123456 (Calling card access number).
- When prompted, dial from the phonebook:1234 (Calling card PIN).
- When prompted, dial from the phonebook: 5550123456 (the person you want to call).
- 1 During an outside call, press [[]] ([F3] key).
- **2** Display the desired item. (See page 14 for a search.)
- **3** Press () ((F1) key).
 - Repeat from step 1 to dial other numbers.

Note:

- When storing a calling card access number and your PIN in the phonebook as one phonebook item, press [②] to add pauses after the number and PIN as necessary (page 11).
- If you have rotary or pulse service, you need to press [★] before pressing [□□]
 ([F3] key) in step 1 to change the dialling mode temporarily to tone.











Caller ID Service

Using Caller ID service

This unit is Caller ID compatible. To use Caller ID features, you must subscribe to Caller ID service from your telephone service provider.

Caller ID features

When an outside call is being received, the calling party's telephone number will be displayed.

Telephone numbers for the last 50 different callers will be logged in the caller list, allowing you to return missed calls. Caller information is stored by the most recent call to the oldest.

- When Caller ID information is received and it matches a phone number stored in the phonebook, the stored name will be displayed and logged in the caller list. (Private name display)
- If the unit cannot receive caller information, the following will be displayed:

"Out of Area": The caller dialled from an area which does not provide Caller ID service

- "Private Caller": The caller requested not to send caller information.
- If the unit is connected to a PBX system, caller information may not be received properly. Consult your PBX supplier.
- If the name display service is available in your area, the display will show caller names. For further information, please contact your telephone company.

Note:

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

Caller list

Caller information for the last 50 different callers will be logged in the caller list. You can use this list to return missed calls.

 Caller information includes telephone numbers, the date and time of calls, and the number of times the caller called.

Missed calls

If a call is not answered, the unit treats the call as a missed call. The number of missed calls is shown on the display. This lets you know if you should view the caller list to see who called while you were out.

Viewing the caller list and calling back

1 Press [国] ([F2] key), then press [OK].

OR

Press [V] or $[\Lambda]$ to enter the caller list.

- 2 Press [∨] to search from the most recent call, or press [∧] to search from the oldest call.
 - To exit the caller list, press [■].
- **3** Press [**↑**] ([F1] key) or [**⋄**].

Note:

- Calling back will not be possible if the caller information does not include a phone number.
- In some cases, you may have to edit the number before dialling. See page 17.

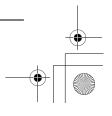
Displayed symbols

- If the same caller calls more than once, it will be displayed with the number ("x2" to "x9"). Only the date and time of the most recent call will be stored.
- A ✓ is displayed next to items which have already been viewed or answered.



















Editing a caller's phone number before calling back

You can edit a phone number in the caller list

- 1 Press [v] or [Λ] to enter the caller list.
- 2 Press [v] or [Λ] repeatedly to display the desired item.
- **3** Press [□□□] ([F2] key).
- **4** Add or erase digits if necessary.
 - To add a digit, press the desired number.
 - To erase a digit, press [C].
- 5 Press [↑] ([F1] key) or [♣] to call back.

Note:

 The edited phone number will not be saved in the caller list.

Storing caller information into the phonebook

Items in the caller list can be stored into the phonebook.

- 1 Press [V] or [\Lambda] to enter the caller list.
- 2 Press [v] or [\lambda] repeatedly to display the desired item.
 - To edit the number, press 【□➡】
 (【F2】 key), then edit the number (see "Editing a caller's phone number before calling back", step 4).
- 3 Press (OK).
 - "Enter Name" will be displayed.
 - If the caller has name information, the name and phone number will be saved. Skip to step 7.
- **4** Enter the name if necessary (page 13, step 3).
- 5 Press [OK].

6 Press (OK).

7 Press [■] to exit.

Note:

 If the caller information in the caller list does not include a phone number, you cannot store it in the phonebook.

Erasing caller information

Erasing a selected item

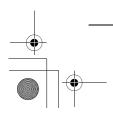
- 1 Press [V] or [\Lambda] to enter the caller list.
- 2 Press [∨] or [∧] repeatedly to display the desired item.
- **3** Press [C].
 - To erase other items, repeat from step 2.
 - To exit the caller list, press (■).

Erasing all items

Make sure that you have no missed calls.

- 1 Press [V] or [\Lambda] to enter the caller list.
- 2 Press [X] ([F1] key).
 - "Erase All?" will be displayed.
 - To cancel erasing, press [©] ([F1] key).
- **3** Press **[OK]** (**[F2]** key).
 - The unit key **[OK]** cannot be used in this step.















Programming via direct commands

You can program features using "direct commands"—special codes that take you directly to the feature you wish to programme and allow you to select the desired setting. There is no need to scroll through the unit's sub-menus.

Details of each feature can be found on the corresponding pages.

Important:

- Before programming, make sure the unit is not being used.
- 1 Press [] ([F2] key).
- 2 Press [♯].

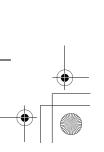


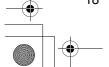
- **3** Enter the desired feature code (see page 19).
- **4** Enter the desired setting code (see page 19).
- 5 Press (OK).
- **6** Press (■) to exit programming mode.

Noto:

- If the unit beeps 5 times, you entered an invalid code. Enter the correct code.
- If you make a mistake or enter the wrong code, press [C].
- To exit programming, press [■] at any time.
- To go back to the previous menu, press [) ([F1] key).

















Direct commands chart

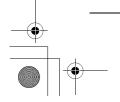
Note:

• The default settings are indicated by *.

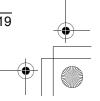
Feature	Feature code	Setting code	Page
Ringer volume	[1] [6] [0]	[1]: Low [2]: Medium [3]: High* [0]: Off	page 21
Ringer tone	[1] [6] [1]	[1]-[3]: Tone pattern 1*-3	page 21
Contrast	[1] [4] [5]	[1]-[6]: Level 1-6 (Default: 3)	page 21
Keytones	[1] [6] [5]	[1]: On* [0]: Off	page 22
Dial mode	[1][2][0]	[1]: Pulse [2]: Tone*	page 10
Recall time	[1] [2] [1]	[1]: 900 msec. [2]: 700 msec. [3]: 600 msec. [4]: 400 msec. [5]: 300 msec. [6]: 250 msec. [7]: 200 msec. [8]: 160 msec. [9]: 110 msec. [*]: 90 msec. [0]: 100 msec.* [#]: 80 msec.	page 22
Pause length	[1] [2] [3]	[1]: 3 sec.* [2]: 5 sec.	page 22
Select language	[1] [1] [0]	(1): English*(2): German(3): Spanish(4): French(5): Italian(6): Dutch(7): Portuguese	page 21

















Programmable Settings

Programming using the function keys

You can program features using the functions keys (**[F1]**, **[F2]** and **[F3]** keys). For your reference, a chart of all programmable functions is printed below. Details for each item can be found on the corresponding pages.

Important:

- Before programming, make sure the unit is not being used.
- 1 To begin programming, press [] ([F2] key).
- **2** Press [V] or $[\Lambda]$ to scroll through the main menu.
- **3** Press **[OK]** to select the desired main menu item.
- **4** Press [V] or $[\Lambda]$ to scroll through the sub-menu.
- **5** Press **[OK]** to select the desired sub-menu item.
- **6** Press [∨] or [∧] repeatedly to select the desired setting.
- **7** Press **(OK)** to save the new setting.
- **8** Press (■) to exit programming mode.

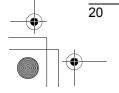
Note:

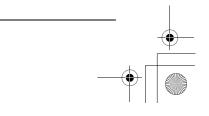
• The default settings are indicated by *.

Main menu	Sub-menu	Option	Reference page for programming
Caller List			page 16
Ringer	Ringer Volume	Low, Medium, High*, Off	page 21
Setup	Ext. Ringtone	Tone pattern 1*–3	page 21
Basic	Contrast	Level 1-6 (Default: 3)	page 21
Settings	Keytones	On*, Off	page 22
	Dial Mode	Pulse, Tone*	page 10
	Recall Time	900 msec., 700 msec., 600 msec., 400 msec., 300 msec., 250 msec., 200 msec., 160 msec., 110 msec., 100 msec.*, 90 msec., 80 msec.	page 22
	Pause Length	3 sec.*, 5 sec.	page 22
	Select Language	English*, German, Spanish, French, Italian, Dutch, Portuguese	page 21

During programming:

- To exit programming, press [■] at any time.
- To go back to the previous menu, press [([F1] key).
- A ✓ indicates the current setting.











Programmable Settings

Ringer setup

Ringer volume

4 levels (high/medium/low/off) are available.

- 1 Press (■) ((F2) key), then press (♯), [1], [6], [0].
- **2** Press (1) to (3), or (0) to select the desired setting.

[1]: Low [2]: Medium

(3): High (0): Off

3 Press **(OK)**, then press **(■)**.

Ringer tone

You can change the ringer tone heard when an outside call is received. There are 3 tones.

- **1** Press [**□**] (**[F2]** key), then press **[**♯], [1], [6], [1].
- **2** Press [1] to [3] (Tone pattern 1 to 3).
- **3** Press **(OK)**, then press **(■)**.

Display options

Contrast

You can adjust the unit display contrast. There are 6 levels.

- 1 Press (key), then press (), [1], [4], [5].
- **2** Press [1] to [6] (Level 1 to 6).
- **3** Press **(OK)**, then press **(■)**.

Display language

You can select "English", "Deutsch", "Español", "FRANCAIS", "Italiano", "Nederlands", Or "Português" as the display language.

- **1** Press (**□**) ((**F2**) key), then press (**□**), [1], [1], [0].
- 2 Press [1] to [7] to select the desired language.

[1]: English

(2): German

[3]: Spanish

(4): French

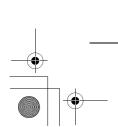
[5]: Italian

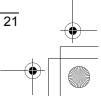
[6]: Dutch

[7]: Portuguese

3 Press **(OK)**, then press **(■)**.

• If you select a language you cannot read, press [] ([F2] key) [#][1][0][1][OK] to change the display language to English.











Programmable Settings

Telephone settings

Recall time

The recall time depends on your telephone exchange or host PBX.

- **1** Press [国] ([F2] key), then press [坩], [1], [2], [1].
- 2 Press [0] to [9], [*] or [#] to select the desired setting.
 - [1]: 900 msec. [2]: 700 msec. [3]: 600 msec.
 - **(4)**: 400 msec. **(5)**: 300 msec. **(6)**: 250 msec.
 - [7]: 200 msec. [8]: 160 msec. [9]: 110 msec.
 - [*]: 90 msec. [0]: 100 msec. [#]: 80 msec. (msec.=milliseconds)
- **3** Press (OK), then press (■).

Note:

 If the unit is connected via a PBX, certain PBX functions (call transferring, etc.) may not work correctly. Consult your PBX supplier for the correct setting.

Pause length

You can select either "3 sec." or "5 sec." as the pause length depending on the requirements of your service provider or PBX.

- 1 Press [国] ([F2] key), then press [坩], [1], [2], [3].
- **2** Press [1] (3 sec.) or [2] (5 sec.).
- **3** Press (OK), then press (■).

Other options

Keytones

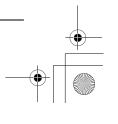
You can select whether or not keytones are heard when keys are pressed. Includes confirmation tones and error tones.

- 1 Press [三] ([F2] key), then press [‡], [1], [6], [5].
- 2 Press [1] (On) or [0] (Off).
- **3** Press (OK), then press (■).

















Recording a conversation

The total recording capacity is about 120 minutes. A maximum of 64 items can be recorded.

- If 64 items have been recorded. conversation recording memory will become full even if the total recording time is less than 120 minutes.
- 1 Press (●) ((F1) key), while talking.
 - When recording starts, the remaining recording time will be displayed in minutes for about 3 seconds.
 - "-Recording-" will be displayed while recording.
 - If the remaining recording time is less than 6 minutes, the IN USE indicators will flash slowly in amber and green, and the remaining time will be displayed as shown below:

Remaining time

less than 6 minutes \rightarrow Remaining: 5Min less than 5 minutes \rightarrow Remaining: 4Min less than 4 minutes \rightarrow Remaining: less than 3 minutes \rightarrow Remaining: less than 2 minutes \rightarrow Remaining: 1Min less than 1 minute*¹ \rightarrow Remaining: 0Min

- *1 When recording starts, the remaining recording time will be displayed in seconds for about 3 seconds.
- If mute is on, the IN USE indicators flash in red.
- **2** To stop recording, press (■).
 - If memory becomes full, " Memory Full" will be displayed. To record additional conversations, erase unnecessary conversations.

Using the AUDIO OUT socket



- Conversations are also routed through the AUDIO OUT socket. This allows you to connect recording equipment (cassette recorder, computer, etc.) and record conversations without using the unit's recording memory.
- Recorded conversations are also routed through the AUDIO OUT socket during playback.
- Connect "AUX IN" or "LINE IN" socket of recording equipment using an optional audio cable with a 3.5 mm mono plug.

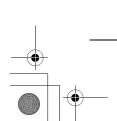
Note:

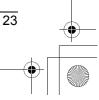
• When you record your 2-way telephone conversation, you should inform the other party that the conversation is being recorded.



If you receive a call during recording, perform the following to answer the 2nd call:

- If you do not want to record the 2nd call, press (■), then press (R).
- If you want to record the 2nd call, press (R). The unit continues recording.







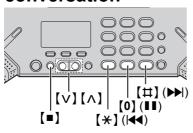






Recording a Conversation

Playing back a recorded conversation



When conversations have been recorded, "OO" and the total number of recorded conversations are displayed while the unit is in standby mode.

Press **[▶]** (**[F1]** key).



- The unit will play back the new recorded conversations.
- When you have no new recorded conversations, the unit will play back all recorded conversations.
- If the unit has no recorded conversations, the display will show "No Messages", and the unit will go back to standby mode.

Note:

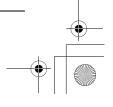
 The current conversation number (for example, "#1") is displayed during playback.

During playback

Key	Command
[▶▶] ([F3] key)	Change fast-forward speed (four times or sixty times normal speed), each time you press [▶▶] If [▶] ([F2] key) is pressed during fast-forwarding, playback will be resumed at normal speed. The selected speed will flash on the display ("x4" or "x60").
[44] ([F1] key)	Change rewind speed (four times or sixty times normal speed), each time you press [◄◄] • If [▶] ([F2] key) is pressed during rewinding, playback will be resumed at normal speed. • The selected speed will flash on the display ("x4" or "x60").
[★] (I◀◀)	Repeat conversation If [★] (I◄) is pressed within the first 2 seconds, the previous conversation will be played. If [★] (I◄) is pressed during playback of the first conversation, the first conversation will be repeated.
[♯](▶▶)	Skip conversation
	Pause playback ■ To resume playback, press [▶] ([F2] key). ■ To stop playback completely, press [■].
[=]	Stop playback

















To adjust the speaker volume

8 levels (high to low) are available. Press [\Lambda] or [\V] repeatedly during playback. "Receiver Volume" is displayed.

Erasing a specific conversation

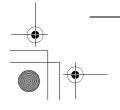
- 1 Press [X] ([F2] key) while listening to the conversation you want to erase.
- 2 Press [OK] ([F3] key) at "Erase One".
 - The unit key **[OK]** cannot be used in this step.
 - The display shows "Erased", then the next one will be played.

Erasing all conversations

- 1 Press [X] ([F2] key) while listening to the conversation.
- 2 Press [∨] or [∧] to select "Erase All".
- **3** Press **[OK]** (**[F3]** key).
 - The unit key **[OK]** cannot be used in this step.
 - The display shows "Erase All".

















Display messages

One of the following messages will be displayed in the condition described below.

Display message	Cause & solution
Phonebook Full	• There is no space to store new items in the phonebook. Erase unnecessary items (page 15).
No Entries	Your phonebook, redial list or caller list is empty.
™ Memory Full	 Conversation recording memory is full. Erase unnecessary items (page 25).

Troubleshooting

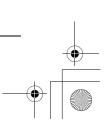
General use

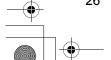
Problem	Cause & solution
The unit does not work.	 Check the connections (page 7). Unplug the unit's AC adaptor or Interface cable to reset the unit. Reconnect the adaptor or interface cable and try again.
I cannot hear a dial tone.	 Confirm that the telephone line cord is connected (page 7). Disconnect the unit from the telephone line and connect 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 telephone company.

Programmable settings

Problem	Cause & solution
I cannot programme items.	Do not pause for over 1 minute while programming.
While programming, the unit starts to ring.	 A call is being received. Answer the call and start again from the beginning after a call is finished.













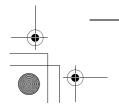


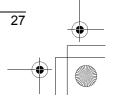
Making/answering calls

Problem	Cause & solution
Noise is heard while talking.	 If your unit is connected to a telephone line with DSL service, we recommend connecting a noise filter between the unit and the telephone network (page 8). Contact your DSL provider for details. If your unit is near noisy equipment such as computers or fans, you may not be able to hear easily the other party's voice. Turn off noisy equipment on both parties.
Short silences, echoes, or speech cuts occur.	 At the beginning of a call, both parties should speak alternately. This enables the unit to adapt to its environment and let both parties speak effectively. Do not move the unit while it is in use. Keep your hands away from the unit during calls. Keep files, cups, coffee pots, etc., away from the unit. The other party's phone might not be full duplex. For best sound quality, the other party should use a handset phone or full duplex speakerphone. Use the unit in a quiet room.
The other party's voice is muffled or sounds "in a well".	 Speak closer to the unit. If your room has glazed windows, we recommend that you draw a curtain or pull a blind.
I cannot make a call.	 The dialling mode may be set incorrectly. Set the dial mode (page 10) to match the type of telephone service you have (tone or pulse).
I cannot redial by pressing [◆].	 If the last number dialled was more than 48 digits long, the number will not be redialled correctly. If you press [○] after you have entered the phone number, this button functions as the [○] button. To redial, press [○], then press [○], or press [○], select desired phone number by pressing [∨] or [∧], then press [□] or [↑] ([F3] key).

Phonebook

Problem	Cause & solution
I cannot store an item in the phonebook.	 You cannot store an item in the phonebook while the unit is in speakerphone mode, or while listening to recorded conversations. Do not pause for over 1 minute while storing.
While storing an item in the phonebook, the unit starts to ring.	 A call is being received. Answer the call and start again from the beginning after a call is finished.













Problem	Cause & solution
The display exits the phonebook while searching.	The unit automatically exits after 1 minute of inactivity.

Caller ID

Problem	Cause & solution
The unit does not display the caller's phone number.	 You have not subscribed to Caller ID service. Contact your telephone service provider to subscribe. If your unit is connected to any additional telephone equipment such as Caller ID box or wireless telephone socket, disconnect the unit from the equipment and plug the unit directly into the wall socket. If your unit is connected to a telephone line with DSL service, we recommend connecting a noise filter between the unit and the telephone network (page 8). Contact your DSL provider for details. Other telephone equipment may be interfering with this unit. Disconnect the other equipment and try again. The caller requested not to send caller information (page 16). If the unit is connected to a PBX system, caller information may not be received properly. Consult your PBX supplier.
The display exits the caller list while searching.	The unit automatically exits after 1 minute of inactivity.

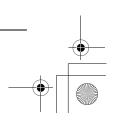
Power failure

Problem	Cause & solution
The unit will not function.	 This product is not designed to make calls in the event of a power failure.



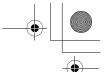














Useful Information

Specifications

Speakerphone unit

Operating environment:

5 °C - 40 °C

Dimensions:

Approx. height 64 mm x width 279 mm x depth 279 mm

Mass (Weight):

Approx. 970 g

Audio Out:

Typical: Approx. -3 dBm (at 10 k Ω),

0.03 mW

Maximum: Approx. $0 \text{ dBm (at } 10 \text{ k}\Omega)$,

0.06 mW

ø3.5 mm mono mini socket

Power consumption:

Standby: Approx. 4.0 W Maximum: Approx. 7.0 W

Power supply:

AC adaptor

(PQLV206E: 220 – 240 V AC, 50/60 Hz) (PQLV206CE: 100 – 240 V AC, 50/60 Hz)

Interface box

Dimensions:

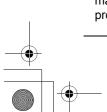
Approx. height 32 mm x width 67 mm x depth 76 mm

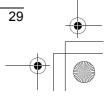
Mass (Weight):

Approx. 60 g

Note:

- Design and specifications are subject to change without notice.
- The illustrations in these instructions may vary slightly from the actual product.













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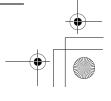
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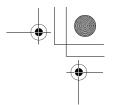












Sales Department:

■ The Czech Republic Panasonic Czech Republic, s.r.o. Křižíkova 237/36A (Palác Karlín)

186 00 Praha 8 e-mail:info@panasonic.cz e-mail:pcsserv@panasonic.cz aktuální info na www.panasonic.cz

■ Eastern Europe (For Estonia, Latvia, Lithuania and Slovenia users)

Panasonic Eastern Europe Handelsgensellschaft m.b.H.

Laxenburgerstrasse 252, A1232 Wien Austria Tel:0043 (1) 96006-395 Fax:0043 (1) 96006-456

■ France Panasonic France S.A.

1-3, avenue François Mitterrand 93218 Saint-Denis La Plaine Cedex France Service Consommateurs: 08 92 35 05 05 (0,35 € la minute)

■ Germany Panasonic Deutschland

Winsbergring 15, 22525 Hamburg Tel:040-85490 www.panasonic.de

■ Greece Intertech S.A.

Αντιπρόσωπος Κεντρικά Γραφεία

Αφροδίτης 24, 167 77 ΕΛΛΗΝΙΚΟ Τηλεφωνικό κέντρο:210.9692.300 Panafax:210.9648.588 e-mail:info@intertech.gr

Υποκατάστημα Βόρειας Ελλάδας

K. Καραμανλή 11, 54638 ΘΕΣΣΑΛΟΝΙΚΗ Τηλεφωνικό κέντρο: 2310.245.840-3 Panafax:2310.968.083 e-mail:intertech-th@intertech.gr www.intertech.gr

■ Italy Panasonic Italia S.p.a.

Via Lucini, 19 - 20125 Milano servizio clienti:02-67.07.25.56 www.panasonic.it

■ Netherlands Panasonic Infocentre

Europalaan 30 5232 BC's-Hertogenbosch Tel:073-6402 802 Fax:073-6402 812 e-mail:info-centre@panasonic.nl

Reparaties E-Care Repair Services

Postbus 215 6920 AE Duiven Tel:026-3193 343 Fax:026-3193 377 e-mail:info@e-care.nl

■ Spain Panasonic ESPAÑA, S.A.

Avda. Josep Tarradellas, 20 - 30 08029. Barcelona (España) Teléfono atención usuario: 902 15 30 60 www.panasonic.es

■ Switzerland John Lay Electronics AG

Littauerboden 1 CH-6014 Littau-Luzern Tel:+41 (0) 41 259 90 90 Fax:+41 (0) 41 252 02 02 www.panasonic.ch

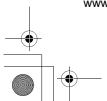
■ UK

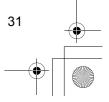
Panasonic Business Systems U.K.

Panasonic House, Willoughby Road Bracknell, Berkshire, RG12 8FP Tel: 08700 100 076 (within the UK) 01289 8333 (within the Republic of Ireland) www.panasonic.co.uk

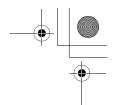
■ Hungary Panasonic Magyarország Kft.

1117 Budapest, Neumann J. u. 1.









■ Poland Panasonic Polska Sp. z o. o.

> Al.Krakowska 4/6 02-284 Warszawa, Polska Infolinia: 0801 351 903 www.panasonic.pl

■ Slovakia Panasonic Slovakia spol. s r.o. Štúrova 11, 811 02 BRATISLAVA, Slovenská republika

Tel.číslo: +421-2-5292-1423
Fax: +421-2-5292-1411
e-mail:sales@panasonic.sk
web: www.panasonic.sk







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Panasonic Communications Co., Ltd.

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

