

Panasonic

Model No:

KX-TCD650E

Digital Cordless Phone

Operating Instructions & Quick Guide

Centre Page Pullout

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Caller ID compatible

Please read before use and save

Charge the batteries for approx. 15 hours before initial use

General Safety

- Only use the power supply included with the product.
- Do not connect the AC Adaptor to any AC outlet other than the standard AC220-240V.
- The apparatus is approved for use with PQLV19E power supply.
- This apparatus is unable to make emergency telephone calls under the following conditions:
 - The portable handset batteries need recharging, or have failed.
 - During a mains power failure.
 - When the Key Lock is set to ON.
 - When the unit is in Direct Call mode.
- Do not open the base unit or handset (other than to change the batteries).
- This apparatus 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 unit to excessive smoke, dust, mechanical vibration or shock.

Environment

- Do not use this unit near water.
- This unit 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 located / installed near the unit and is accessible.

WARNING:



TO PREVENT THE RISK OF ELECTRICAL SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY OTHER TYPE OF MOISTURE.

Battery Caution


- Use only specified batteries.
- **Only use rechargeable batteries.**
- Do not mix old and new batteries.
- Do not dispose of batteries in a fire, they may explode. Check local waste management codes for special disposal instructions.
- Do not open or mutilate the batteries. Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- Exercise care in handling the batteries in order not to short the batteries with conductive materials such as rings, bracelets and keys. The batteries and/or conductor may overheat and cause burns.
- Charge the batteries provided in accordance with the information given in this operating guide.

Accessories

(Included)

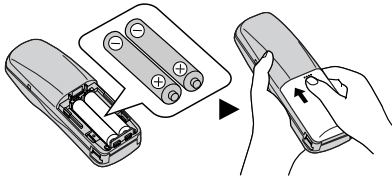
- AC Adaptor PQLV19E 1 
- Telephone Line Cord PQJA87S 1 
- Batteries (AA Size) N4DH33B00001 OR HHR-6P/2SA1 2 batteries
- Battery Cover PQQK10109Y6 1
- Operating Instructions QUQX00018Z 1

Additional accessories are available for purchase. Contact your Panasonic Customer Care Helpline for further details.

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Setting Up

Insert the Batteries



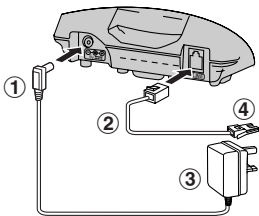
Please ensure the batteries are inserted as shown.

Connection

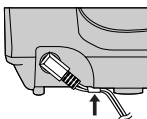
- Plug in the AC adaptor and the telephone line cord in order ①, ②, ③.

WARNING:

DO NOT CONNECT THE TELEPHONE LINE CORD TO THE PHONE SOCKET ④ UNTIL THE HANDSET IS FULLY CHARGED.



- Fasten the AC adaptor cord to prevent it from being disconnected.



Hook

- The AC Adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use).

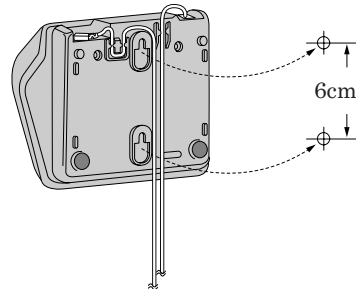
Location

- For maximum distance noise-free operation, place your base unit:
 - Away from electrical appliances such as TV, radio, personal computer or another phone.
 - In a convenient high and central location.

Wall Mounting

This unit can be mounted on a wall.

- Insert screws into wall. The centres of the screw holes should be 6cm vertically apart.
- Connect the AC adaptor and the telephone line cord.
- Arrange the wires as shown, then mount the unit.



Notice

- Some features described in these operating instructions/quick guide are dependent upon subscription to your Network provider (e.g Caller ID).

All features of this type will be marked throughout the manual with this icon .




- Please note throughout this operating instructions/quick guide that the word "PRESS" is depicted by this symbol

Battery Charging

(Before Initial Use)


! The batteries must be charged for approximately 15 hours before initial use.

- After the batteries have been inserted into the handset, place the handset in the powered up base unit.
- **(The telephone line cord must not be connected to the telephone socket at this time. Please leave your standard telephone connected until battery charging is complete).**
- The batteries are fully charged only when  is flashing.


(After Initial Use)

- When the battery icon flashes (and, if programmed, battery low alarm sounds), the handset should be charged immediately because there is little energy left in the batteries.



Battery Life

- Battery life is dependent on use and conditions but in general when using fully charged Ni-MH batteries:
Talk time: 20hrs approx.
Standby time: 200hrs approx.
When using Ni-Cd batteries (based on 800mA per hour)
Talk time: 12hrs approx.
Standby time: 100hrs approx.
(Times indicated are for peak performance)
- The batteries reach peak performance after several full charge / discharge cycles.
- The batteries cannot be overcharged unless they are repeatedly removed and replaced.
- If battery life is shortened then please check that battery and charge terminals are clean.
For maximum battery life it is recommended that the handset is not recharged until battery icon flashes (.

Replacing the batteries

- If the  icon flashes after a few telephone calls even when the handset batteries have been fully charged, the batteries must be replaced.

! Charge new batteries for approximately 15 hours before initial use.

- **(The telephone line cord must not be connected to the telephone socket at this time).**
- If the batteries are removed, the battery icon is reset to  (less than 30% capacity). In this case, even if fully charged batteries are fitted, the icon remains as  until a full charge cycle is complete.
- On replacing the batteries, ensure that the correct battery type is selected (see 'Handset Settings').



Turning the Power ON/OFF

Turn Power ON

-  and hold .

When button is released, display changes to the standby mode and a confirmation tone sounds.

Turn Power OFF




- From the standby mode,  and hold  until a long tone sounds.

The display goes blank. If you put the handset in the base unit, the battery icon will display.








Answering Calls

- **When the phone rings,** , , ,  or .




When an external call is incoming, you can temporarily turn off the handset ringer.

During an incoming call,  and hold .  is displayed and the handset ringing stops. (This function will not work when the handset is on the base unit or if an internal call is incoming.)

Making Calls




-  .
- **Dial the number.**
After a few seconds, the call duration is displayed. The dialled number is stored in the redial memory.
- **When you are finished with the call,**  .
 - Alternatively, dial the number, then  . This procedure allows you to edit / confirm the number before dialling.
 - If you misdial,   .
 - If  flashes and an alarm tone sounds when you press  , move closer to the base unit and try your call again.

Setting the Receiver Volume

- **During a phone call,**   or  to change the volume setting to **LOW** (o), **MEDIUM** (oo) or **HIGH** (ooo).




Handset Locator / Paging

Using this feature you can locate a misplaced handset by paging.

-  on the base unit.
All handsets ring for 1 minute.
-  again or  on (one of) the handset(s) to stop ringing.









Redialling

Redialling the Last Number Dialed

-  .
-   .
The last number dialled displays and is dialled.

Making a Call from the Redial List

The last 10 numbers dialled are stored.

- **From the standby mode**   .
-   or  to select number.
(To exit the redial list,   .)
-  .

Caller ID Service

Caller ID is a service of your Network provider and will only operate if you have subscribed to this feature.

After subscribing to Caller ID, this phone will display the callers information.















If your unit is connected to a PBX or a telephone line that does not support this service you will not be able to use it.

Caller ID does not display caller information while using the handset for an intercom call. However, the caller's information will be stored to the Caller ID List.

Making a Call from the Caller ID List

The last 50 caller's phone numbers are stored in the order the calls were received.

- **From the standby mode**   or  .
The newest number is displayed.
 - If there are no numbers stored in the Caller ID list **NO IDEN** is displayed.
-   or  to select number.
 -  to scroll to previous calls and  to the most recent calls.
 - Only the most recent call from the same phone number is stored.
 - Only 12 digits of a phone number are displayed. To display the remaining digits of longer phone numbers,   .
- **On selection**   .



Making a Call from the Caller ID List (cont.)














After you have viewed a phone number, answered the call or called back the caller, "o" is added to the caller's number.

After viewing all new Caller ID numbers, the call counter is reset to zero.

To exit the Caller ID list  .

Caller ID List Menu / Redial List Menu

You can save numbers from the redial list/Caller ID list into speed dial, edit or clear from memory.

- From the standby mode   (to access Redial list) or   or  (to access Caller ID list).
-   or  to select number from list.
-  .
- **SAUE SPEED** is displayed.
-   or  to select a menu item then follow the instructions below.






SAUE SPEED














(Save a Number in the List as a Speed Dial):

-  .
-  is displayed.
-  .

EDIT CALL NO








(Edit a Number in the List):

-  .
 -   or  to move the edit point.
- Digits are added or deleted to the left of the flashing digit.

- To add digits   .
- To clear digits  .
- Either   to dial or to save the number,  .
- **SAUE SPEED** is displayed.
-  .
-   to save.








CLEAR



(Clear a Number in the List):

-  .
 -   or  to select **YES (YES)**.
 -  .
- CLEAREd** is displayed, a confirmation tone sounds and the next number is displayed. If you clear the last number, **NO tEN** is displayed.

ALL CLEAR

(Clear all Numbers in the List):

-  .
 -   or  to select **YES (YES)**.
 -  .
- A confirmation tone sounds and **CLEAREd**, then **NO tEN** is displayed.

To exit the menu at any time,  .

Speed Dialling

You can store up to 20 telephone numbers in the handset.

Storing New Numbers

- From the standby mode . *NEW SPEED* is displayed.
- .
- and an index number *00 - 19* is displayed.
- *Enter a phone number (max 24 digits).
- . *SAVED* is displayed. To enter another number repeat from *.
- If speed dial memory is full *MEMORY FULL* is displayed.
- You can keep a record of your Speed Dial numbers in the reference table included in the 'Quick Guide'.

Dialling Stored Numbers

- .
- or to select number.
- OR
- *00 - 19* to select index number directly.
- .
- If you press , or no digits are entered for over 1 minute, speed dial is cancelled.

Saving Numbers to Speed Dial from Other Lists

Please reference "Caller ID List Menu/Redial List Menu".

Speed Dial List Menu

You can edit or clear a speed dial number from memory or assign a hot key to any speed dial number.

- From the standby mode .
- or to select number from list.

- .

Edit is displayed.

- or to select a menu item then follow the instructions that follow:

Edit

(Edit the Speed Dial Number):

- .
- or to move the edit point.
- Digits are added or deleted to the left of the flashing digit.
- To add digits - .
- To clear digits .
- to save.

CLEAR

(Clear a Speed Dial Number):

- .
- or to select *YES (YES)*.
- .

CLEAR Ed is displayed, a confirmation tone sounds and the next number is displayed. If you clear the last number, *NO ITEM* is displayed.

HOT KEY REG

(Register a Speed Dial Number as a Hot Key

1 - WXYZ):

- .
- or to select a key from 1-9.

If a key has already been assigned as a hot key, it will flash in the display.

- .
- or to select *YES (YES)*.
- .



The speed dial number is displayed and a confirmation tone sounds.




To exit the menu at any time,

- .

Hot Key

Dialling a Hot Key Number

You can assign the dialling buttons  -  as hot keys. You can choose 9 phone numbers from the speed dial list (See “Register a Speed Dial Number as a Hot Key”).

-  and hold a key  - .

The number stored with that key is displayed.

 or  to view other numbers stored.

-  to dial.

Clearing Caller Information from a Hot Key

-  and hold a key  - .

The number stored with that key is displayed.

- . **CLEAR** is displayed.

- .



-  or  to select **YES (YES)**.

- .

Key Lock



You can lock the handset dialling buttons. Only incoming calls are accepted while the key lock is ON.

Turn Key Lock ON



-  and hold  until a beep sounds.
- '🔒' is displayed and all dialling buttons are locked.

! When the key lock is ON, emergency calls cannot be made until key lock is cancelled.

Turn Key Lock OFF

-  and hold  until a beep sounds.
- '🔒' disappears and key lock is cancelled.
- The key lock is also cancelled if the handset is turned off.

Recall Feature

-  is used to access special telephone services. Contact your Network provider for details.
- If your unit is connected to a PBX, pressing  allows you to access some features of your host PBX such as transferring an extension call (Refer to 'TBR' in 'Base Unit Settings').











Call Waiting

- Call Waiting is a service of your Network provider and will only operate if you have subscribed to this service.
- After subscription, your handset displays a second caller's phone number while talking and a Call Waiting tone is heard.
- You can answer the second call, keeping the first call on hold.
- Please consult your Network provider for details of this service.



Dialling Pause

! This function is for PBX line/long distance service users.

- A dialling pause is used when a pause in the dialling of the phone number is necessary using a PBX or accessing a long distance service. (see "Select Pause Timing").
- For example, when 9 (line access number) is dialled followed by a pause to access an outside line through a PBX:
 -   
 -  . ('P' is displayed on the LCD).
 - **Enter telephone number.**
 -  .
 - Entering a pause prevents misdialling when you redial or dial a stored number.
 - Pressing  once creates one pause. To extend the pause requirement time,   accordingly.

Handset Settings

You can change the handset settings using a handset near the base unit.

Before proceeding with any of the main menu items listed in this chapter, the following procedure must initially be carried out:

- 1 From the Standby mode, .
- 2 or to select **SEt t ING HS** (Setting Handset).
- 3 .
- 4 or to select main menu items from below (see menus in shaded text boxes):
 - To exit the menu at any time, .
 - or to return to previous step during programming.

SEt t ING HS

(Alarm Settings):*

- .
- or .

SEt t ING

(Set Time of Alarm):*

- .
- - to enter time (4 digits) - 24 hour clock. Digits are entered over the flashing digit. To clear .
- to save.
- or to select **ONCE** (Once), **REPEAT dAILY** (Repeat Daily) or **OFF** (Off).
- .

SEt ALARM

(Set Alarm):

- .
- or to select **ONCE** (Once), **REPEAT dAILY** (Repeat Daily) or **OFF** (Off).
- .

To Stop Alarm

- When the alarm sounds, , - , or .

Alarm stops and display returns to the standby mode. If **ONCE** is selected, the setting is turned off. When in talk or intercom mode the alarm will not sound until the call is ended.

* For this feature to work you must first set the Clock (see "Base Unit Settings").

SEt t ING HS

(Ringer Settings):

- .
- or .

SEt t ING VOL

(Select the Handset Ringer Volume):

- .
- or to select Ringer Volume. The choices are 6 levels or OFF.
- .

SEt t ING P

(Select Ringer Pattern for External Incoming call)*

To program see * below.

SEt t ING I

(Select Ringer Pattern for Internal call)*

To program see * below.

SEt t ING P

(Select Ringer Pattern for Paging/Handset Locator tone)*

To program see * below.

SEt t ING A

(Select Ringer Pattern for Alarm tone):*

* There are 20 patterns available for each ringer option.

- .
- or to select ringer pattern.
- .

KEY TONE

(Tone Settings):

- .
- or .

KEY TONE

(Set Key Confirmation Tone ON/OFF)*

To program see * below.

CALL WAITING

(Set Call Waiting Tone ON/OFF)*

To program see * below.
Call waiting tone sounds when an incoming external call is received during an intercom call.

RANGE ALARM

(Set Range Alarm ON/OFF)*

To program see * below.
Alarm will sound when you move out of range of a base unit.

BATTERY LOW

(Set Battery Low Tone ON/OFF)*

* Program as follows

- .
- or to select ON/OFF.
- .

DISPLAY OPT

(Display Options):

- .
- or .

STANDBY MODE

(Select Standby Mode Display):

- .
- or to select from **BS NO** (Base Unit number), **HS NO** (Handset Number), **CLOCK** (Clock) or **OFF** (Off).
- .

! Time will only be displayed if the clock has been set (see "Base Unit Settings").

CALL MODE

(Select Talk Mode Display):

- .
- or to select from **CALL TIME** (Length of Call) or **PHONE NO** (Phone Number).
- .

CALL OPT

(Call Options):

- .
- or .

CALL BAN

(Set Call Prohibition ON/OFF):

This allows you to make emergency and intercom calls only.

- .
 - Enter handset PIN (4 digits).
If the PIN is incorrect an error tone sounds.
 - or to select **ON** (On) or **OFF** (Off).
 - .
- If **ON** is selected, is displayed.

DIRECT NO

(Enter a Direct Call Number):

After a Direct Call phone number has been entered and Direct Call set to ON, you can call the Direct Call number **only**, by pressing . Incoming calls are accepted.

- .
- Enter phone number.
- .
- to save the entered number.
- or to select **ON** (On) or **OFF** (Off).
- .

If **ON** is selected, is displayed.

Before programming, please follow steps 1 to 4 of 'Handset Settings'.

SEE DIRECT

(Set Direct Call ON/OFF):

- - or to select **ON** (On) or **OFF** (Off).
 -
- If ON is selected, is displayed.

OTHER OPT

(Other Options):

-
- or

HSP IN CHANGE

(Change Handset PIN):

You can change the 4 digit password for the handset. The factory preset is 0000.

-
- Enter current handset PIN (4 digits).
- Enter new PIN (4 digits). (The new PIN does not display).
- Re-enter the new PIN. (If the PIN is entered incorrectly, an error tone sounds and display returns to **NEW PIN** ____.

! Once you have programmed the password, you cannot confirm it. We recommend you write down the password. If you forget it, please consult our Panasonic Customer Care Helpline.

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AUTO TALK

(Set Auto Talk ON/OFF):

If you set Auto Talk to ON, you can answer the phone by lifting the handset off the base unit.

-
- or to select **ON** (On) or **OFF** (Off).
-

BATTERY TYPE

(Set Battery Type Ni-MH / Ni-Cd):

Select the type of battery installed. If the battery type selected is not the same as the type of battery installed, the battery level icons will not be correct.

-
- / to select **NI-MH** (Ni-MH) or **NI-Cd** (Ni-Cd).
-

REGISTRATION

(Registration):*

-
- or

REGISTER HS

(Registering a Handset to a Base Unit)*

CANCEL BASE

(Cancelling a Base Unit)*

SELECT BS

(Select Base Unit)*

*For information on registering handset(s), cancelling and selecting base unit(s), please refer to 'For Optional Multi-Unit Users'.

RESET HS

(Reset the Handset Settings):

You can reset all of the handset settings to their initial factory settings (see 'Handset Initial Settings').

- - Enter handset PIN (4 digits). If PIN is correct, **NO** is displayed.
 - or to select **YES** (Yes).
 -
- CLEARED** is displayed and display returns to settings menu.

Base Unit Settings

You can change the base unit settings using a handset near the base unit.

Before proceeding with any of the base settings listed in this chapter, the following procedure must initially be carried out:

- 1 From the standby mode, .
- 2 or to select **SEtting b5** (Setting Base).
- 3 .

INPUT CODE is displayed. From this display, follow the instructions after each heading.

Please note: Where 'Enter PIN' is stated in this chapter, it refers to the 4 digit Base Unit PIN. (The factory setting is 0000).

- To exit the menu at any time, .

Ringer Mode

To select all handsets to ring

- .
- Enter PIN.
- .
- .

To select specific handset(s) to ring

- .
- Enter PIN.
- .
- to select handset(s).

The selected handsets will be flashing.

- .

To select specific handset(s) then all handsets to ring

The specific handset(s) will ring for a selected number of rings. If not answered, all handsets will ring.

- .
- Enter PIN.
- .
- to select handset(s) to ring.
- .
- to select number of rings.
- .

Select Base Unit Ringer Volume

- twice.
- (Off) or - to select volume.
- .







Selecting Time Break Recall (TBR) / Earth Recall Mode (option)

The factory setting is time break recall (TBR). If your PBX requires earth recall mode, this can be added at an extra cost. Please contact our Customer Care Helpline for details.

- .
- Enter PIN.
- then for earth mode OR then for time break recall mode (TBR).
- .

Select Pause Timing

You can set the pause timing to 3 or 5 seconds, depending on your PBX requirements (see "Dialling Pause").

-  **OFF 3**.
- Enter PIN.
-  **OFF 3**.
-  **1** to select 3 seconds
- OR
-  **NO 2** to select 5 seconds.
-  .

Set the 4 - Digit Base Unit PIN


You can change the 4-digit password for the base unit. The factory preset is 0000.

-  **NO 5**.
- Enter PIN.
- Enter New PIN (4 digits) twice.

If entered incorrectly, an error tone sounds.












If entered correctly, a confirmation tone sounds.

! Once you have programmed the password, you cannot confirm it. We recommend you write down the password. If you forget it, please consult our Panasonic Customer Care Helpline.

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Set Call Restriction

You can restrict selected handset(s) from dialling selected phone numbers. You can assign up to 6 call restriction numbers (up to 8 digits).

-  **NO 6**.
- Enter PIN.
- All registered handset numbers are displayed.
-  **1** - **NO 6** to select handset(s) to restrict.
- The selected handset(s) will flash.
-  .
- Enter a restriction number (max. 8 digits).
- (If you misdial  **C**).
-   to confirm restriction number.
- To continue entering call restriction numbers (max. 8 digits), enter the number, then  .
- On completion,  .

! If you dial a restricted number, the call does not connect and restricted number flashes.

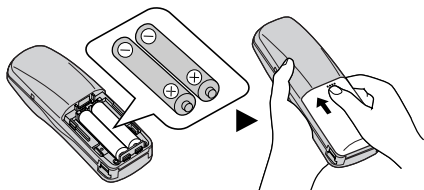
Cancel Call Restricted Handset(s)

-  **NO 6**.
- Enter PIN.
-  **1** - **NO 6** to select handset(s) to cancel.
- The selected handset(s) will stop flashing.
-  .

Quick Guide & Useful Information

Batteries

Insert the Batteries



Please ensure the batteries are inserted as shown.

Important!

Charge the batteries for approx. 15 hours before initial use.

- Batteries reach peak performance after several full charge/discharge cycles.
- For further information on batteries, please refer to main Operating Instructions.

Network Dependent Features

Some features described in these Operating Instructions/Quick Guide are dependent upon subscription to your Network provider (eg. Caller ID, Call Waiting).

All features of this type will be marked throughout the Operating Instructions/Quick Guide with this icon.

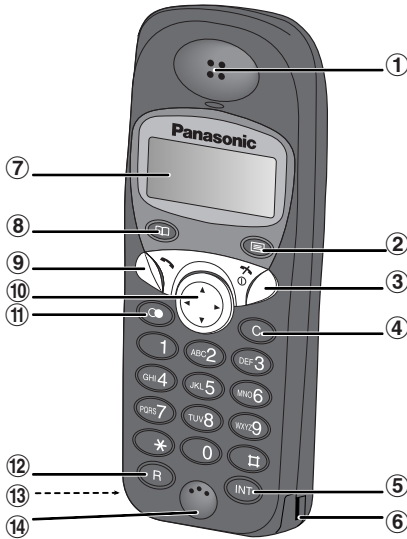


Contact Information

- If you experience any problems with your product, please contact our **Customer Care Helpline** (Monday - Friday 9:00am - 5:30pm) on:
U.K. 08700 100076/R.O.I. 01289 8333
- Order accessory items for all Communications Products with ease and confidence either by telephoning our **Customer Care Helpline** or by going online through our Internet Accessory ordering service *shop@* **Panasonic** : **www.panasonic.co.uk**
 - Most major credit and debit cards are accepted.
 - All enquiries, transactions and distribution facilities are provided directly by Panasonic UK Ltd.
 - It couldn't be simpler!



Location of Controls

















Handset controls

- ① - Receiver
- ② - Function/OK Button
- ③ - Talk Off/Power Button
- ④ - Cancel Button
- ⑤ - Intercom Button
- ⑥ - Charge Contact
- ⑦ - Display
- ⑧ - Speed Dial Button
- ⑨ - Talk Button
- ⑩ - Navigator Key
- ⑪ - Redial/Pause Button
- ⑫ - Recall Button
- ⑬ - Charge Contact
- ⑭ - Microphone

Base unit controls

-  - Page button

Handset Display

Icon	Displays	Flashes
	Within range of a base unit	Out of range
	Intercom mode	Paging or another unit pages the handset
	Making or answering calls	Outside call is received
	Less than 30% battery capacity	 - Recharge battery
	30% to 50% battery capacity	
	50% to 100% battery capacity	 - Fully charged
	In Direct Call mode	
	In Call Prohibition mode	
	In setting mode	
	Ringer tone temporarily OFF	
	Key Lock ON	
	Speed Dial list/mode	

Quick Guide

Function	Action
Switch handset on / off	until a confirmation tone sounds.
Answer a call	.
Make a call	Dial the number and .
Hang up	.
Turn Key Lock on/off	and hold for more than 2 seconds.
Redial last number	, .
Store a number	, enter number, .
Dial a stored number	, / to select a number, .
Dial from the Redial List	, / to select a number, .
Adjust Receiver volume	/ during a call.
Call another handset	then the handset number.
Transfer a call	enter the handset number, .
Three way call	enter the handset number, .
Dial from the Caller ID List	/ to select a number, .



Speed Dial Reference Table

00	05	10	15
01	06	11	16
02	07	12	17
03	08	13	18
04	09	14	19

Your Guide to the Display

Note: The LCD display of the handset can display up to 7 segments and each character will be displayed as shown in the following table. Some characters will be displayed in a different way; for example, the character M is displayed *n*. This is not a defect of the handset display, it is simply the representation of the characters used in this kind of display. The LCD descriptions listed below are displays that do not show the correct letter form or are abbreviated descriptions. The meanings of these displays have been added for your reference.

Character	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Display	<i>R</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>h</i>	<i>L</i>	<i>n</i>	<i>n</i>	<i>O</i>	<i>P</i>	<i>q</i>	<i>r</i>	<i>S</i>

Character	T	U	V	W	X	Y	Z	1	2	3	4	5	6	7	8	9	*	0	#
Display	<i>t</i>	<i>U</i>	<i>U</i>	<i>W</i>	<i>H</i>	<i>Y</i>	<i>Z</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>4</i>	<i>0</i>	<i>=</i>

Display Message	Display Meaning	Display Message	Display Meaning
<i>ALARFN</i>	Alarm	<i>NI-Cd</i>	Ni-Cd
<i>AUeO</i>	Automatic	<i>NI-MH</i>	Ni-MH
<i>AUeO eALh</i>	Automatic Talk	<i>NO IeEN</i>	No Item
<i>bAteEGY LOB</i>	Battery Low	<i>OeHEF OPe</i>	Other Option
<i>bAteEGY tYPE</i>	Battery Type	<i>PHONE NO</i>	Phone Number
<i>bS NO</i>	Base Number	<i>RANGE ALARFN</i>	Range Alarm
<i>bS PIN</i>	Base Unit Pin	<i>REGISEtEF HS</i>	Register Handset
<i>CALL OPe</i>	Call Option		Handset
<i>CALL WAIt ING</i>	Call Waiting	<i>RINGER OPe</i>	Ringer Option
<i>CLOCK</i>	Clock	<i>RINGER VOL</i>	Ringer Volume
<i>dIRECT NO</i>	Direct Number	<i>RESEt HS</i>	Reset Handset
<i>dISPLAY OPe</i>	Display Option	<i>SELEct bS</i>	Select Base
<i>EdIt CALL NO</i>	Edit a Call no.	<i>SEt ALARFN</i>	Set Alarm
<i>EHt RINGER</i>	External Ringer	<i>SEt tINE</i>	Set Time
<i>HS NO</i>	Handset Number	<i>SEtIt ING bS</i>	Setting Base
<i>HS PIN</i>	Handset PIN	<i>SEtIt ING HS</i>	Setting Handset
<i>HS PIN CHANGE</i>	Change Handset PIN	<i>StANdbY NOde</i>	Standby Mode
<i>HOt KEY REG</i>	Register Hot Key	<i>tALh NOde</i>	Talk Mode
<i>INt RINGER</i>	Internal Ringer	<i>tALh tINE</i>	Talk Time
<i>KEY tONE</i>	Key Tone	<i>tINE ALARFN</i>	Time Alarm
<i>MEMORY FULL</i>	Memory Full	<i>tONE OPe</i>	Tone Option
<i>NEw SPEEd</i>	New Speed	<i>VOL</i>	Volume
<i>NEw PIN</i>	New PIN		

Cancel Call Restricted Numbers



Enter PIN.



Hand icon pointing to a button with 'C' to cancel number.



Set the Clock



Enter a new time (4 digits) (24 hour time) (Hand icon pointing to a button with '0' - Hand icon pointing to a button with '9').



! After a mains power failure the clock needs to be reset.

Reset the Base Unit

You can reset all of the base unit settings to their initial factory settings. (see "Base Unit Initial Settings").



Enter PIN.



! If the base unit is reset, the Caller ID list will clear.



Handset Initial Settings

To reset handset to initial settings refer to “Handset Settings”.

Function	Initial Setting
Time Alarm Mode	OFF
Alarm Time	Clear
Handset Ringer Volume	3
Handset External Ringer Pattern	1
Handset Internal Ringer Pattern	1
Handset Paging Tone Pattern	1
Handset Alarm Tone Pattern	1
Key Tone	ON
Call Waiting Tone	ON
Range Warning Alarm	OFF
Battery Low Alarm	ON
Standby Mode Display	Base Unit Number
Talk Mode Display	Length of the Call
Call Prohibition Mode	OFF
Direct Call Mode	OFF
Direct Call Number	Clear
4 Digit Handset PIN	0000
Auto Talk	OFF
Base Unit Access	Automatic Base Unit Access
Handset Receiver Volume	2
Redial Memory	All Clear

Base Unit Initial Settings

To reset base unit to initial settings refer to “Base Unit Settings”.

Function	Initial Setting
Ringer Mode	All Handsets
Number of Rings	3
Earth/Time Break Recall	Time Break Recall
Pause Timing	3 seconds
Call Restricted Handset(s)	All Clear
Call Restriction Number(s)	All Clear
Base Unit PIN	0000
Base Unit Ringer Volume	Medium

Operating Additional Handsets

Additional KX-A120E handsets are available to purchase separately. Up to 6 handsets can be registered to a single base unit. Using additional handsets allows you to have an intercom call while simultaneously on another handset conducting a call to an outside line.

Operating Additional Base Units

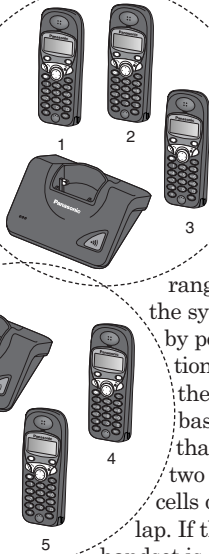
You can register and operate your handset with up to 4 base units. Each base unit forms 1 radio cell. If the individual bases are linked to the same telephone line then you can extend the operating

range of the system by positioning the bases so that the two radio cells overlap. If the handset is set to

Radio Cell

Eg.
Additional handsets (KX-A120E) registered with 2 base units.

It is not possible to transfer calls between bases (only between handsets linked to the same base unit).



AUTO base selection, in STANDBY MODE the handset will automatically swap to the second base if the range on the first base is exceeded.

NOTE: Calls are disconnected when the handset moves from one radio cell to another.

Registering a Handset to a Base Unit

The handset supplied with the base unit is already registered. If an optional handset is purchased, it must be registered as follows.

! Charge the optional handset batteries for 15 hours before initial use.

- 1 From the Standby mode, .
- 2 or to select **SEtTING HS** (Setting Handset).
- 3 .
- 4 or to select:

REG IStFRt 10A

(Registration):

- 5 .

REG IStEF HS

(Register Handset):

- .
- and hold on the base unit for 10 seconds. A base registration tone sounds.

! Handset must be registered within 1 minute. If over 1 minute then restart registration.

- or to select **BASE 1-4** (base 1-4).
- .
- Enter base unit PIN (4 digits - factory preset is 0000).
- .

- When handset and base unit connect a confirmation tone sounds.
- If handset registration is not successful within 5 minutes, an error tone sounds.

Canceling a Handset

Each handset can cancel itself or another handset.

- From the standby mode, .
- or to select *SEtTING bS*.
- .
- when *INPUT CODE* is displayed.
- Enter base unit PIN (4 digits).
- - to select handset to cancel.
- .

Canceling a Base Unit

Follow steps 1 to 5 of “Registering a Handset to a Base Unit”, then:

- or to select:

CANCEL BASE

(Cancel a Base Unit)

You can cancel any base unit that your handset is registered to.

- .
 - Enter handset PIN (4 digits).
 - or to select base unit(s) to cancel.
 - to set selection.
- Selected base number(s) flash(es).
- .
 - or to select *YES* (Yes) or *NO* (No).
 - to confirm selection.

If selection was *YES*, *CLEARfED* is displayed briefly.

Selecting a Base Unit

When *AUT0* (Automatic Base Unit Access) is selected, if you move outside of the radio range of the current base unit the handset automatically searches for other registered bases.

When a specified base unit is selected, the handset will access that base unit only.

Follow steps 1 to 3 of “Registering a Handset to a Base Unit”, then:

- or to select:

SELECT bS

(Select Base Unit):

- .
- or to select *AUT0* or a specific base unit 1-4 (only registered base unit numbers are displayed).
- to confirm selection.

Calls (both incoming and outgoing), can be conducted only via the selected base unit, even if the radio cells overlap with neighbouring base units.

Intercom Between Handsets

You can use your handsets as a 2-way intercom. For example, when Handset 1 calls Handset 2:

Handset 1-

- . blinks.
- (desired handset number).

Handset 2 (ringing) -

- to answer.

Handset 1 and 2 -

- to end the call.




! Intercom calls can be conducted within the radio cell of the current base unit, but not with units in neighbouring radio areas.



Transferring Calls to Another Handset

The intercom can be used during a call to transfer an external call between handsets that are registered to the same base unit.

For example, when handset 1 transfers a call to Handset 2:

Handset 1 -

- During the call,  .  is displayed and the call is put on hold.

-   (desired handset number).

A ring back tone is heard until Handset 2 answers.*

Handset 2 (ringing) -

-   or  to answer.

Handset 1 & Handset 2 -

- (Have conversation).

Handset 1 -

-   to release the call for transfer

OR

  to connect to external caller again.

To transfer the call directly, without speaking to the other handset:



Handset 1 -

-   at *.

Handset 2 -

-  .





The transfer is complete.

If the transferred call is not answered within 30 seconds, Handset 1 will ring again.   to answer the call.



Conference Calls

During a conversation in an external call, you can make an intercom call to another handset and then combine the calls together to establish a conference call:

Handset 1 -

- During the call,   then   (desired handset number).



The call is put on hold.

If there is no answer,   to return to the caller.

Handset 2 (ringing) -

-   or  to answer.

Handset 1 -

-   to establish the conference call.

Handset 1 or Handset 2 -

-   to end the conference call.

Before Requesting Help

If you experience any problems with the normal use of your apparatus, you should unplug it from the telephone outlet and connect a known working telephone in its place. If the known working telephone still has problems, then please contact the customer service department of your Network provider. If it operates correctly, then the problem is likely to be a fault in your apparatus. In this case, contact your supplier for advice. Your Network provider may charge you if they attend a service call that is not due to apparatus supplied by them.

Problem	Possible cause	Solution
NO LCD display in handset. Handset will not turn on.	<ul style="list-style-type: none"> • Handset not turned on. • Batteries not inserted. • Batteries not charged. 	<ul style="list-style-type: none"> • Turn on power (pg. 4). • Insert x 2 rechargeable batteries supplied (pg. 3). • Place handset in base and connect AC adaptor to base and AC outlet (full charge period 15 hrs).
Batteries charge icon not counting up.	<ul style="list-style-type: none"> • Dirty charge contact. • Base not powered up. 	<ul style="list-style-type: none"> • Clean charge / battery contact and retry charge. • Connect AC adaptor to base unit and AC outlet.
📶 icon flashing.	<ul style="list-style-type: none"> • Handset not registered to base. • Handset out of range of base. 	<ul style="list-style-type: none"> • Register handset to base. • Move handset closer to base.
Handset busy tone heard when 📞 is pressed.	<ul style="list-style-type: none"> • Handset out of range of base. • Another handset in use. 	<ul style="list-style-type: none"> • Move handset closer to base. • Wait for other user to complete call.
No dial tone.	<ul style="list-style-type: none"> • Telephone line not connected. 	<ul style="list-style-type: none"> • Insert telephone cord to network.
Cannot dial out.	<ul style="list-style-type: none"> • Call prohibition mode set. • Particular dialled number is restricted. • Key lock mode ON. 	<ul style="list-style-type: none"> • Turn feature off. • Remove number from call restricted list. • Turn key pad lock OFF.
Base unit will not ring.	<ul style="list-style-type: none"> • Base ringer turned off. 	<ul style="list-style-type: none"> • Set ringer to one of 3 volume levels (see “Base Unit Settings”).
Handset will not ring.	<ul style="list-style-type: none"> • Ringer switched off. 	<ul style="list-style-type: none"> • Set ringer to one of 6 volume levels (see “Handset Settings”).
Last number redial does not work.	<ul style="list-style-type: none"> • Number exceeded 24 digits. 	<ul style="list-style-type: none"> • Redial manually.
No Caller ID number displayed.	<ul style="list-style-type: none"> • Service not supplied. • Caller has withheld info. 	<ul style="list-style-type: none"> • Caller ID service must be arranged with Network provider.
🔋 icon flashes.	<ul style="list-style-type: none"> • Battery low. 	<ul style="list-style-type: none"> • Recharge batteries.

Problem	Possible cause	Solution
Cannot register handset to base.	<ul style="list-style-type: none"> • Max. number of bases already registered to handset. • Max. number of handsets already registered to base unit. • Wrong PIN number entered (Default 0000). • Electrical noise in local area. 	<ul style="list-style-type: none"> • Delete unused base registrations from handset. • Delete unused handset registrations from base. • If PIN number is lost, contact the Panasonic Customer Care Helpline. • Move base / handset away from sources of electrical noise (e.g TV, radio).

 If you still have a problem please contact our Customer Care Helpline (Monday - Friday 9:00am - 5:30pm) on : **U.K. 08700 100 076**
R.O.I. 01289 8333

Technical Information

Specifications:

Standard:

DECT=(Digital Enhanced Cordless Telecommunications).

GAP=(Generic Access Profile).

Number of channels:

120 Duplex Channels.

Frequency range:

1.88 GHz to 1.9 GHz.

Duplex procedure:

TDMA (Time Division Multiple Access).

Channel spacing:

1728 kHz.

Bit rate:

1152 kbit/s.

Modulation:

GFSK.

RF Transmission Power:

approx. 250mW.

Voice coding:

ADPCM/32kbit/s.

Operating range:

Up to 300m outdoors (line of sight), up to 50 m indoors.

Power source:

AC Adaptor 220-240 V AC~50/60Hz.

Power consumption, base unit:

5 VA.

Operating conditions:

5° - 40°C, 20 - 80% relative air humidity (dry)

Dimensions, Base Unit:

About 103mm x 122mm x 60mm x 180g

Dimensions, Handset:

About 134mm x 46mm x 30mm x 85g (without batteries)

Telephone line cord length:

About 2.3m

AC adaptor cord length:

About 1.9m

• Specifications are subject to change.

• The illustrations used in this manual may differ slightly from the original device.

Connections:

• The telephone will not work during a power failure.

We therefore recommend you use a standard telephone and T Adaptor to connect this Digital Cordless Phone to the line. Your Panasonic Sales Shop can offer you more information about connection possibilities.

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CONDITIONS OF GUARANTEE

This guarantee is in addition to and does not in any way affect any statutory or other rights of consumer purchasers. If within the applicable guarantee period, the appliance proves to be defective by reason of faulty design, workmanship or materials, we undertake subject to the following conditions to have the defective appliance (or any part or parts there of) repaired or replaced free of charge.

1. The appliance shall have been purchased and used solely within either the UK or ROI and in accordance with standard operating instructions and the technical and/or Safety Standards required in the UK.
2. The appliance should be returned together with this guarantee and proof of date of purchase promptly on being found defective at the purchaser's risk and expense to the authorised dealer from whom the appliance was purchased or to the nearest authorised dealer. All enquires must be through such dealers.
3. This guarantee shall not apply to damage caused through fire, accident, lightning, misuse, wear and tear, neglect, incorrect adjustment or repair, to damage caused through installation, adaption, modification or use in an improper manner or inconsistent with the technical and/or safety standards required in the country where this appliance is used, or to damage occurred during transit to or from the purchaser.
4. If at any time during the guarantee period any part or parts of the appliance are replaced with a part or parts not supplied or approved by us or of an objective quality safe and suitable for the appliance, or the appliance has been dismantled or repaired by any person not authorised by us, we shall have the right to terminate this guarantee in whole or in part immediately without further notice.
5. The purchaser's sole and exclusive remedy under this guarantee against us is for the repair or replacement of the appliance or any defective part or parts and no other remedy, including, but not limited to, incidental or consequential damage or loss of whatsoever nature shall be available to the purchaser.
6. This guarantee shall not apply to batteries and any other items of limited natural life.
7. Our decision on all matters relating to complaints shall be final. Any appliance or defective part which has been replaced shall become our property.
8. The guarantee period applicable to this product shall be 12 months.

Please keep these Operating Instructions with your receipt.

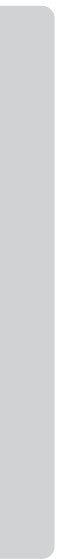
Panasonic Business Systems U.K.

Receipt No. _____

Date of Purchase _____

Model No. **KX-TCD650E** _____

Serial No. _____





MODEL No. **KX-TCD650E**

Hereby, Kyushu Matsushita Electric (U.K.) Limited declares that this (KX-TCD650E) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the manufacturer's declaration of conformity to the essential requirements of the R&TTE Directive is available at the following web address: <http://doc.panasonic-tc.de>

For your future reference

Serial No. _____ Date of purchase _____
(found on the bottom of the unit)

Name and address of dealer _____

**Customer Care Helpline Tel. No.: U.K. 08700 100 076
R.O.I. 01289 8333**

C E 0436

1999/5/EC

Technical specifications are subject to change.

Sales Department:

Panasonic Business Systems U.K.
Panasonic House, Willoughby Road, Bracknell, Berkshire, RG12 8FP

Kyushu Matsushita Electric (U.K.) Ltd.
Pencarn Way, Duffryn, Newport, South Wales, NP10 8YE, United Kingdom