

Panasonic®

Operating Instructions



Home Communication System
Cordless Video Camera Station

Model No. **KX-THA16**

2LINE



This unit is an accessory unit for use with the KX-TH102 base unit. You must register this unit with your base unit before it can be used.

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

For assistance, visit our website:

<http://www.panasonic.com/phonehelp> for customers in the U.S.A. or Puerto Rico.

Table of Contents

Introduction

Feature highlights	3
Accessory information	5
Expanding your phone system	6
For best performance	9

Preparation

Setting up the unit	10
Battery charge	11
Battery replacement	12
Headset (Optional)	12
Controls	13
Display	15
Symbols used in these operating instructions	16
Registering the unit	17
Setting the unit before use	17

Making/Answering Calls

Making calls	18
Answering calls	19
Useful features during a call	19

Phonebook

Phonebook	21
-----------	----

Caller ID Service

Using Caller ID service	25
Caller list	26

Video Phone

Video phone feature	28
Video phone settings	31

Intercom

Intercom feature	32
Transferring a call	32
Conference calls	33
Call share	34

Monitoring

Monitoring feature	35
Audio monitor	35
Video monitor	36

Built-in camera

Taking a picture	40
Picture gallery	41

Programmable Settings

Ringer settings	42
Display settings	44
Slide show	45
Other settings	47

Answering System

Answering system feature	51
Listening to messages	51

Using a Cellular Phone with this Unit

Configuring a cellular phone	53
Making/answering calls using a cellular line	53

Printing

Print settings	57
Printing images	59

Useful Information

Connecting the USB cable to the unit	60
Error messages/icons	61
Troubleshooting	65
FCC and other information	71
Specifications	73
Customer services	74
Warranty	75
Direct command chart/programming index	77

Index

Index	80
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Feature highlights

Thank you for purchasing the Panasonic Home Communication System Cordless Video Camera Station.

Important:

- For information about the handsets, cordless camera, and other compatible Panasonic units, see page 6.

Telephone and monitoring features

■ 2 line telephone

While one line is in use, you can make or answer a call using the other line.

■ Video phone

This unit allows you and the person you are talking to to see each other in real time during a call, if you have ITU-T H.324 compatible video phone (page 28).

■ Audio monitor (between this unit and base unit/handset)

You can listen to the audio in the room where the handset or base unit is located (page 35).

■ Video monitor (between this unit and cordless camera/handset)

This unit allows you to monitor the room where the cordless camera or the handset is located (page 36).

■ Built-in camera

You can use the unit's built-in camera to take pictures (page 40). These pictures can be used for the phonebook, as wallpaper, and as privacy images for this unit.

■ Slide show

This feature allows you to view pictures as a slide show while the unit is in standby mode. You can even select your own background music (page 45).

■ Customize ring

You can connect an audio device to the unit using the audio cable included with your base unit and record songs to be used as the ringer tone (page 43).

■ Changing the device name

You can customize the name for the unit (page 48).

■ Cellular connection

This feature allows you to make or answer cellular calls using this unit, the handset, or the base unit, if your cellular phone is Bluetooth® wireless technology compatible to the home communication system (page 53).

For more information for this feature, please visit our website (page 6).

MULTI TALK V software

The CD-ROM included with your base unit contains the MULTI TALK V Utility suite. The suite consists of the following utilities. Refer to the “Installation Guide for MULTI TALK V Software” included with your base unit for installation details.

■ MULTI TALK V USB Utility

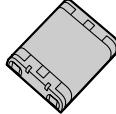
Allows you to use your computer to:

- Add, edit, erase, and copy phonebook entries
- Send images and melodies stored in your computer to your phone
- Change phone settings
- Connect to the Internet or to another computer using a MULTI TALK V phone

■ MULTI TALK V Printing Utility

Allows you to use your computer to register this unit in order to print images from the unit to your computer’s printer.

Accessory information

<input type="checkbox"/> AC adaptor for cordless video camera station (Order No. PQLV203Z) 	<input type="checkbox"/> Battery (Order No. HHR-P515) 
<input type="checkbox"/> Battery cover (Order No. PQYNTHA16R) 	<input type="checkbox"/> USB cable (Order No. PQJA10166Z) 

Other additional/replacement accessories

Accessory item	Order number
Rechargeable nickel metal hydride (Ni-MH) battery	HHR-P515
corded headset	KX-TCA86, KX-TCA88HA

Note:

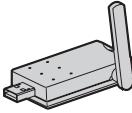
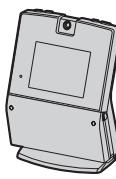
- You can expand your phone system by registering additional compatible Panasonic units (page 6).

Sales and support information

- To order these accessories, call 1-800-332-5368.
- TTY users (hearing or speech impaired users) can call 1-866-605-1277.

Expanding your phone system

You can expand the phone system by registering the following units to a single base unit:
max. 18

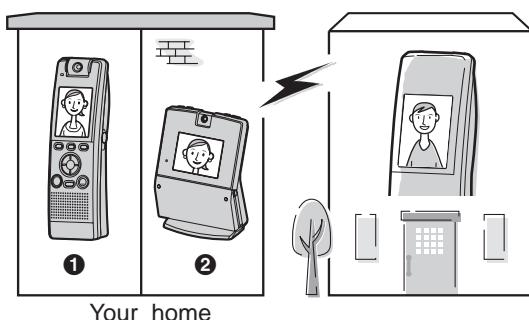
Handsets: max. 8		Other devices: max. 10
Cordless handset KX-THA11 (Monochrome display type)		Cordless camera KX-THA13: max. 2 (For monitoring) 
Cordless video camera handset KX-THA12 (Color display type)		USB adaptor KX-THA14 (For data link) 
Cordless video camera station KX-THA16 (Large color display type)		Other Bluetooth compatible devices (Optional)
Cordless video camera handset with A/V output KX-THA17 (Color display type with audio/video output jack)		Headset  Cellular phone: max. 5 

Note:

- Headset and cellular phone must have Bluetooth capability and must be compatible to the home communication system. For more details and the list of compatible cellular phones, please visit: www.panasonic.com/MultiTalkV

Various features using the optional units

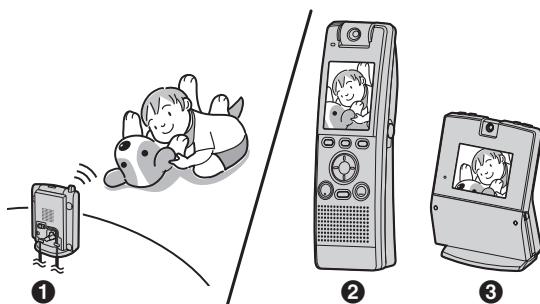
Video phone



This feature allows you and the person you are talking to to see each other in real time for an outside call using the handsets. If you have additional units (1, 2), you can also make a video call during an intercom call.

- ① KX-THA12/KX-THA17
- ② KX-THA16

Video monitor

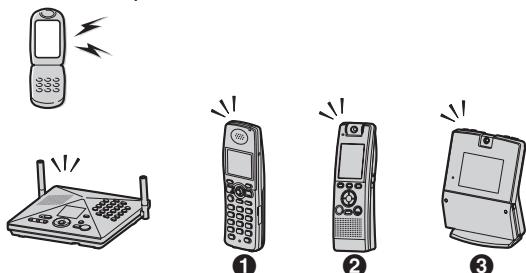


This feature allows you to monitor the room where the cordless camera (1) is located from the units (2, 3). You can also monitor the room between the units (2, 3).

- ① KX-THA13
- ② KX-THA12/KX-THA17
- ③ KX-THA16

Cellular connection (Bluetooth compatible)

Your cellular phone

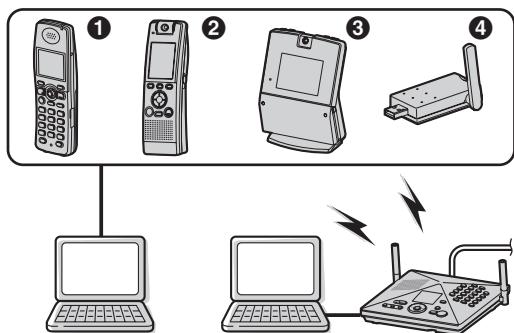


This feature allows you to make or answer cellular calls using your unit (1, 2, 3, and the base unit), if you have Bluetooth compatible cellular phones.

- ① KX-THA11
- ② KX-THA12/KX-THA17
- ③ KX-THA16

Introduction

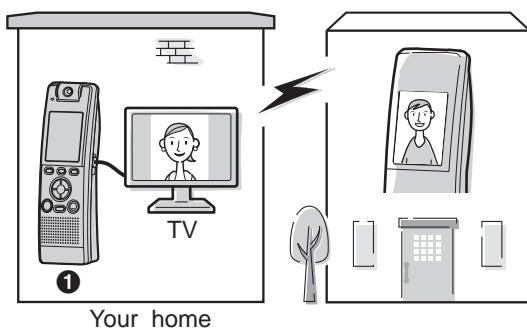
Data link feature



This feature allows you to access the Internet or another computer by connecting the units (1, 2, 3, and the base unit) with the USB cable or a USB adaptor (4) to your computer.

- ① KX-THA11
- ② KX-THA12/KX-THA17
- ③ KX-THA16
- ④ KX-THA14

Video phone using TV



This feature allows you to use your TV to see the other person during a video call.

- ① KX-THA17

For best performance

Location/Noise

This unit communicates using radio waves.

For maximum distance and noise-free operation, we recommend the following:

- Placing the product away from electrical appliances.
- If you use the unit near other electrical appliances (microwave, wireless LAN appliance, etc.), noise may be heard. Move away from those appliances and closer to the base unit.
- If you use the unit near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

Environment

- Keep the product away from electrical noise generating devices, such as fluorescent lamps and motors.
- The product should be kept free from excessive smoke, dust, high temperature, and vibration.
- The product should not be exposed to direct sunlight.
- Do not place heavy objects on top of the product.
- When you leave the product unused for a long period of time, unplug the product from the power outlet.
- The product 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 (41 °F) or greater than 40 °C (104 °F), except when charging (page 11). Damp basements should also be avoided.
- The maximum calling distance may be shortened when the product is used in the following places: Near obstacles

such as hills, tunnels, underground, near metal objects such as wire fences, etc.

- Operating near 2.4 GHz electrical appliances may cause interference. Move away from the electrical appliances.

Routine care

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

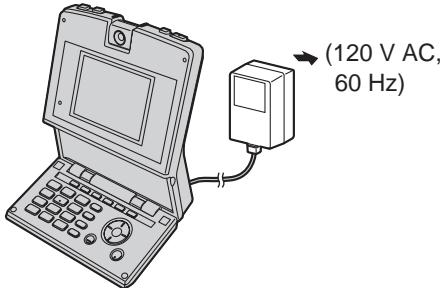
Conditions for using the unit's built-in camera

- The unit's built-in camera is intended for indoor use only. Prolonged exposure to direct sunlight or halogen light may damage CMOS sensor.
- Use the unit's built-in camera in a bright place such as under daylight or a well-lit room.
- Do not use the unit's built-in camera in the following places:
 - near incandescent lamps.
 - near any electrical appliance that emits a strong radio signal.
 - where the subject of the picture is against a light source or in front of a mirror.
- In darker environments other than daylight or in a well-lit room, the smoothness of motion decreases in order to keep the appropriate brightness and sharpness of images. In such environments, the smoothness of motion may not increase/decrease much even if you change the display sharpness settings (page 29, 38).
- When using the unit's built-in camera, please take into consideration the rights of others with regard to privacy.

Setting up the unit

Connecting the AC adaptor

- Use only the included Panasonic AC adaptor PQLV203.

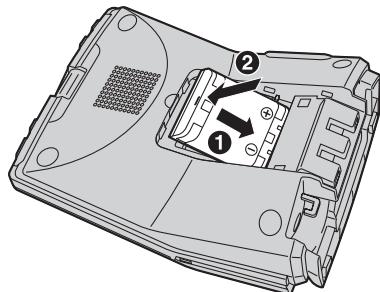


Note:

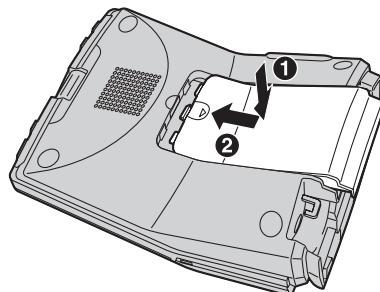
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.

Battery installation

- 1 Insert the battery as shown. Insert the \oplus and \ominus end of the battery first.



- 2 Close the cover in the direction of the arrows.



Note:

- After charging the battery, you can use the battery to power the unit, allowing you to use the unit in a location where there is no power outlet.

We recommend keeping the AC adaptor connected for normal usage.

Battery charge

To fully charge the battery, charge it for **9 hours**.

The battery charges when the AC adaptor is connected and when the unit is not in use.

- While charging,  and the battery strength icon are alternately shown on the display.

Important:

- Charge the battery:
 - in temperatures from 10 °C (50 °F) to 30 °C (86 °F).
 - within range of the base unit.

Note:

- The battery does not charge during a slide show (page 45).

Battery strength

Battery icon	Battery strength
	Fully charged or high
	Medium
	Low Flashing: needs to be recharged.
	Discharged

Note:

- When the battery needs to be charged, the unit beeps intermittently while it is in use.

Panasonic battery performance

Operation	Operating time
While in use (talking)	Voice call: Up to 2.5 hours Video call: Up to 1.5 hours
While not in use (standby)	Up to 9 hours
While using the clarity booster feature (page 20)	Up to 2.0 hours

Note:

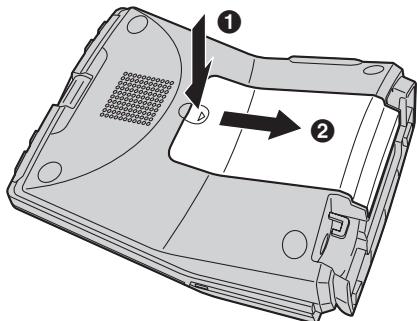
- Battery operating time may be shortened over time depending on usage conditions and ambient temperature.
- Battery power is consumed whenever the unit is not connected to a power outlet even when the unit is not in use. The longer you leave the unit not connected to a power outlet, the shorter you can actually talk using the unit.

Battery replacement

Important:

- Use only the rechargeable Panasonic battery noted on page 5.

- 1 Press the notch of the cover firmly (1), and slide it in the direction of the arrow (2).



- 2 Replace the old battery with a new one. Close the cover.

Attention:



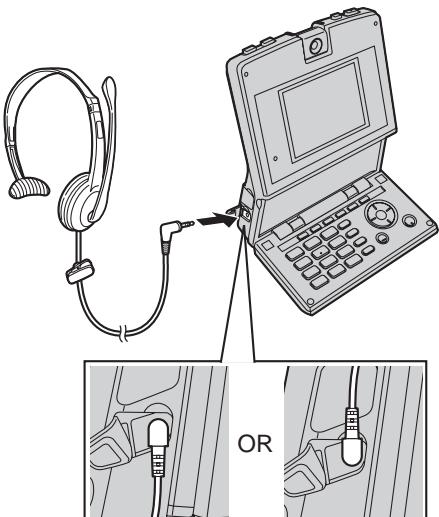
A nickel metal hydride battery that is recyclable powers the product you have purchased.

Please call 1-800-8-BATTERY (1-800-822-8837) for information on how to recycle this battery.

Headset (Optional)

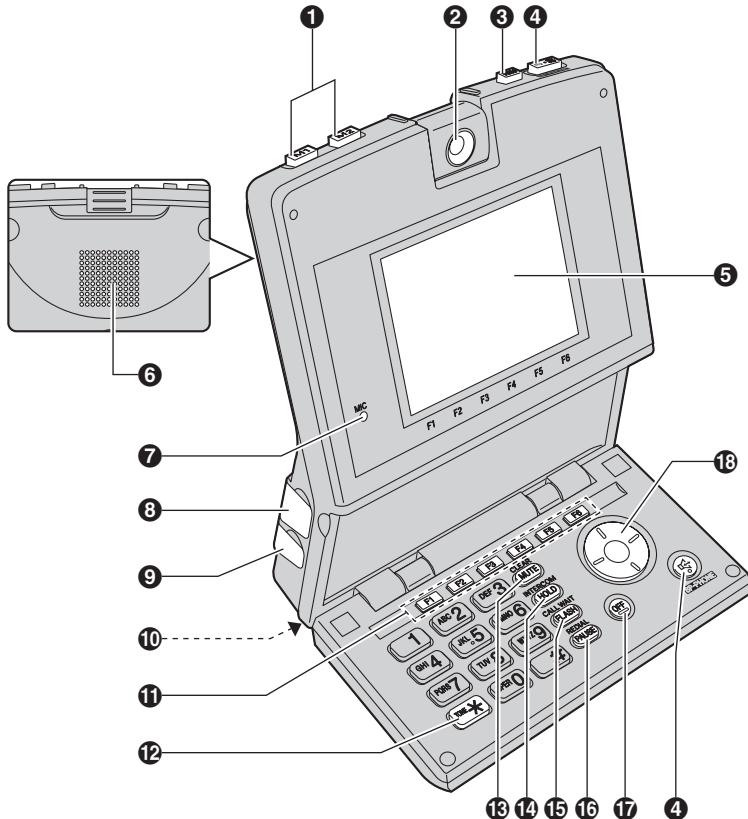
Connecting the corded headset

Plug in the headset plug into the headset jack downward or upward. Do not insert the plug sideways over the edge of the unit because the plug will not fit in completely. Please use only a Panasonic headset (page 5).



- Headset shown is KX-TCA86.

Controls



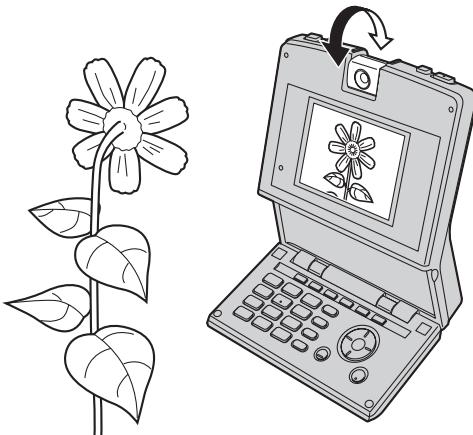
- ① Quick dial keys (M1, M2)
- ② Camera lens
- ③ [VIDEO]
- ④ [SP-PHONE]
- ⑤ Display
- ⑥ Speaker
- ⑦ MIC (Microphone)
- ⑧ USB port
- ⑨ Headset jack/Audio jack

- ⑩ [RESET]
- ⑪ Soft keys (F1, F2, F3, F4, F5, F6)
- ⑫ [＊] (TONE)
- ⑬ [MUTE] [CLEAR]
- ⑭ [HOLD] [INTERCOM]
- ⑮ [FLASH] [CALL WAIT]
- ⑯ [PAUSE] [REDIAL]
- ⑰ [OFF]
- ⑱ Navigator key

Preparation

Adjusting the camera lens angle

Aim the camera lens by rotating the lens forward or backward.



Display

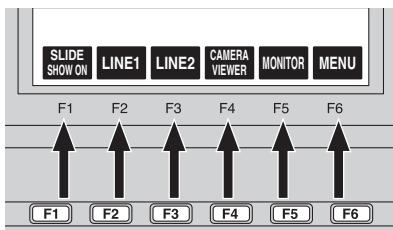
Display items

Displayed item	Meaning
	Battery is charging.
	<ul style="list-style-type: none"> – Battery strength indicator for the unit (located in the upper right of the display) – This icon is also displayed in the lower right representing a connected cellular phone's battery strength. It may not be displayed depending on the cellular phone's capability.
	The line is in use.
	<p>Flashing:</p> <ul style="list-style-type: none"> – the call is put on hold on that line. – the answering system is answering a call on that line. <p>Flashing rapidly: a call is being received on that line.</p>
Example: [1]	This unit's extension number
	Voice enhancer is on.
PRIVACY	Call privacy mode is on.
	Ringer for both line 1 and line 2 on the unit is off.
	Line 1 or line 2 ringer on the unit is off.
	When customizing the unit: indicates the current setting.

Displayed item	Meaning
	Mute is on during a video call.
	A call is put on hold during a video call.
	You are sending a still image to the other party during a video call.
	You are receiving a still image during a video call.
	Monitor access is on.
	The cordless camera detects motion and/or sound, or its [Call button] is pressed.
	You are talking with the other party when monitoring.
	<p>The cellular line is in use.</p> <p>Flashing: a cellular call is put on hold.</p> <p>Flashing rapidly: a cellular call is being received.</p>
	You are using a cellular line. The number of bars indicates the signal strength of the cellular line. Depending on a connected cellular phone's capability, these bars may not be displayed.
	Computer is connected.
	The unit is connecting to your base unit for printing.
	The unit is connecting to your computer for printing.
	The unit is sending printing data.
	The unit has finished sending printing data.

Soft keys

The unit features 6 soft keys. By pressing a soft key, you can select the function displayed directly above it.



Menu icons

When in standby mode, pressing **[MENU]** (F6) reveals the main menu. From here you can access various features and settings.

Note:

- The menu icons shown in these operating instructions vary slightly from the actual icons shown on the display.

Menu icon	Menu/feature
	Phonebook
	Caller list
	Message playback
	Ringer settings
	Slide-show
	Display settings
	Video phone settings
	Other items

Symbols used in these operating instructions

Symbols used for operations

Symbol	Meaning
 , 	The symbols to the left represent the menu icons. Example: 
 ,  ,  , 	Press the navigator key up, down, left, or right to select that menu icon shown on the display.
Example: “Ringer volume”	Press the navigator key up or down to select the words in quotations shown on the display.
→	Proceed to the next operation.
Example: [MENU]	The words in the brackets show button names.
[▲], [▼]	Press the navigator key up or down to scroll through the displayed items.
[◀], [▶]	Press the navigator key left or right to select the desired items.

Registering the unit

Registering the unit

Register the unit to your base unit. The unit will be assigned an extension number by your base unit.

Important:

- Before registering this or any other compatible Panasonic units to your base unit, we recommend you change your base unit's PIN so that other Bluetooth devices in the area are not accidentally registered at the same time. For more information, see the operating instructions included with your base unit.

1 Base unit:

Press and hold **[INTERCOM]** until it starts flashing and a beep sounds.

- After **[INTERCOM]** starts flashing, the rest of the procedure must be completed within 2 minutes.

2 Cordless video camera station (KX-THA16):

Press **[OK]** (F3), then wait until the unit beeps.

- If you have changed the base unit's PIN, enter it and press **[OK]**, then wait until the unit beeps.

Note:

- If for some reason the unit is not registered to a base unit, use the following procedure to register it to the base unit.

[MENU] (F6) →  → **[SELECT]**
 → "Registration" → **[SELECT]**
 → "Registration" → **[SELECT]**
 → Repeat step 1. → **[OK]**

If you have already canceled the unit's registration at the previous base unit, follow steps 1 and 2.

Deregistering the unit

The unit can cancel its own registration.

- 1 **[MENU]** (F6) →  → **[SELECT]**
- 2 "Registration" → **[SELECT]**
- 3 "Deregistration" → **[SELECT]**
- 4 **[3][3][5]** → **[OK]**

Setting the unit before use

Display language

- 1 **[MENU]** (F6) →  → **[SELECT]**
- 2 "Change language" → **[SELECT]**
- 3 Select the desired setting. (Default: "English")
- 4 Press the soft key (F6) to save. → **[OFF]**

Note:

- If you select a language you cannot read, press the soft key (F6), **[#][1][0][1]**, and **[SAVE]** to change the display language to English.

Making calls



- 1** Dial the phone number.
 - To correct a digit, press **[CLEAR]**.
- 2** **[]**
 - An available line is automatically selected and the line number is displayed.
- 3** When the other party answers, speak into the MIC.
 - Speak alternately with the other party.
- 4** When you finish talking, press **[OFF]** or **[]**.

Note:

- You can also select a line by pressing **[LINE1]** or **[LINE2]** in step 2.
- To change the line selection, see page 48.
- Use the speakerphone in a quiet environment.

Adjusting the speaker volume

Press **[]** or **[]** while talking.

Making a call using the redial list

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

- 1** **[REDIAL]**
- 2** Press **[]** or **[]** to select the desired number.
 - To erase the displayed number, press **[CLEAR]**.
- 3** **[]**

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** **[9] → [PAUSE] →** Dial the phone number.
- 2** **[]**

Note:

- A 3.5 second pause is inserted each time **[PAUSE]** is pressed. Press repeatedly to insert longer pauses.

Answering calls

1 [¶]

- The called line is automatically selected.
- You can also answer the call by pressing any button except the navigator key or [OFF]. **(Any key talk feature)**

2 Speak into the MIC.

3 When you finish talking, press [OFF] or [¶].

Note:

- You can also answer the call by pressing [LINE1] or [LINE2] in step 1.
- To change the line selection, see page 48.

Temporary ringer off

While the unit is ringing for an outside call, you can turn the ringer off temporarily by pressing [OFF].

Useful features during a call

HOLD button

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

Press **[HOLD]** 2 times during an outside call.

- To release the hold, press **[LINE1]** or **[LINE2]** that is flashing on the unit.

Note:

- If a call is kept on hold for more than 6 minutes, an alarm tone starts to sound. After 4 additional minutes on hold, the call is disconnected.

MUTE button

While mute is turned on, you can hear the other party, but the other party cannot hear you.

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

- To return to the conversation, press **[MUTE]** or **[¶]**.

FLASH button

Pressing **[FLASH]** 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 flash time, see page 49.

For Call Waiting service users

To use Call Waiting, you must subscribe to your telephone company's Call Waiting service.

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. Please contact your telephone company for

details and availability of this service in your area.

Press **[CALL WAIT]** to answer the 2nd call.

- To switch between calls, press **[CALL WAIT]**.

Temporary tone dialing (for rotary/pulse service users)

You can temporarily switch the dialing 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 dialing.

Clarity booster

This feature can improve sound clarity when the unit is used in an area where there may be interference. During an outside call, this feature is turned on automatically when necessary. You can also turn this feature on or off manually.

- 1 Press **[MENU]** during an outside call.
- 2 To turn this feature on, select “**Booster on**”.
To turn this feature off, select “**Booster off**”.

3 [SELECT]

Note:

- While this feature is turned on;
 - the battery operating time is shortened (page 11).
 - the maximum number of extensions that can be used at a time may decrease.

Voice enhancer

This feature clarifies the voice of the person you are talking to, reproducing a more natural-sounding voice that is easier to hear and understand (page 48).

- 1 Press **[MENU]** during an outside call.
- 2 To turn this feature on, select “**Voice enhancer**”.
To turn this feature off, select “**V.E. off**”.

3 [SELECT]

Note:

- Depending on the condition and quality of your telephone line, this feature may emphasize existing line noise. If it becomes difficult to hear, turn this feature off.

Using the other line during a call

When a call is being received on the other line during a conversation, the interrupt tones sound (page 44). **L1** or **L2** on the unit flashes rapidly. You can answer the 2nd call while holding the 1st call. You can also make a call without ending the 1st call.

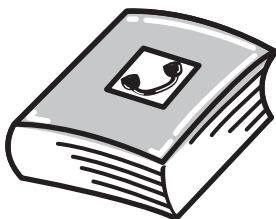
Example: If you are using line 1

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

Note:

- If you subscribe to Caller ID, the 2nd caller's information is displayed when a call is being received on the other line (page 25).

Phonebook



You can add 50 items to the phonebook and search for phonebook items by name. Each item can be assigned a name, phone number, ringer ID, and picture ID. Ringer ID and picture ID features (page 26) are available for Caller ID subscribers.

Important:

- You can also create and edit phonebook items using your computer and send them to the unit. Refer to the help section of the MULTI TALK V USB Utility application for more information.

Adding items to the phonebook

1 [MENU] (F6) → [SELECT]

2 [ADD NEW]

3 “Name” → [SELECT]

4 Enter the name (max. 16 characters; page 22). → [OK]

5 “Phone no.” → [SELECT]

6 Enter the phone number (max. 32 digits). → [OK]

7 “Set Ringer ID” → [SELECT]

8 Select the desired ringer ID (page 26). → [OK]

9 “Set Picture ID” → [SELECT]

10 Select the desired item.

Sample pictures	Images stored in the unit at the time of purchase.
My pictures	Images you stored in the unit (page 41).
Off	Turns the picture ID off. Press [OK], then skip to step 13.

11 [SELECT]

12 Select the desired picture ID (page 26). → [OK]

13 [SAVE]

- To add other items, repeat from step 3.

14 [OFF]

Note:

- To assign a song as ringer ID, you can record it from an audio device (page 43) or copy it from your computer (refer to the help section of the MULTI TALK V USB Utility application).
- If you select “No Ringer ID” (default), the unit uses the ringer tone you selected on page 42 when a call is received from that caller.
- You can use images in “My pictures” as picture IDs. Any of the following can be used:
 - pictures taken with the unit’s built-in camera (page 40).
 - pictures taken during a video call (page 30).
 - pictures copied to the unit from your computer (refer to the help section of the MULTI TALK V USB Utility application).

Character table for entering names

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

Note:

- To enter another character that is located on the same dial key, first press [▶] to move the cursor to the next space.

Editing/correcting a mistake

Press [◀] or [▶] to move the cursor to the character or number you want to erase, then press [CLEAR]. Enter the appropriate character or number.

Note:

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

Finding and calling a phonebook item

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

Once you have found the desired item, press [◀] to dial the phone number.

- You can also make a call by pressing [CALL], then pressing [LINE1] or [LINE2].

Searching for a name alphabetically by scrolling through all items

1 [MENU] (F6) →  → [SELECT]

2 Press [**▲**] or [**▼**] to select the desired item.

- To display further information for the selected item, press [DETAIL]. To return to the list, press [LIST].

Note:

- To go to the next page, press [▶]. To go to the previous page, press [◀].

Searching for a name by initial

1 [MENU] (F6) →  → [SELECT]

2 Press the dialing button ([0] to [9], [#], or [*]) that corresponds to the first letter you are searching for.

Example: "LISA"

Press [5] repeatedly to display the first phonebook entry starting with the initial "L" and go to step 3.

- If there is no item corresponding to the letter you selected, the next item is displayed.

3 Press [**▼**] to select the desired item.

Editing items in the phonebook

- 1 Find the desired item (page 22). → [EDIT]
- 2 Select the information you want to edit. → [SELECT]
- 3 To change the name and/or phone number
Edit the name and/or phone number.
→ [OK]
- To change the ringer ID
Select the desired ringer ID. → [OK]
- To change the picture ID
Select the desired item. → [SELECT]
→ Select the desired picture ID. → [OK]
- To turn the picture ID off
“off” → [OK]

4 [SAVE] → [OFF]

Making a call using a quick dial key

- 1 [M1] or [M2]
- 2 [◀]

- You can also make a call by pressing [LINE1] or [LINE2].

Erasing a quick dial assignment

- 1 [M1] or [M2]
- 2 [CLEAR] → [YES]
- 3 [OFF]

Note:

- The corresponding phonebook item is not erased.

Erasing items in the phonebook

- 1 Find the desired item (page 22).
- 2 [CLEAR] → [YES] → [OFF]

Quick dial

[M1] and [M2] can each be used as a quick dial key, allowing you to dial a number from the phonebook by simply pressing [M1] or [M2].

Assigning an item in the phonebook to a quick dial key

- 1 [M1] or [M2] → [EDIT]
- 2 Press [▲] or [▼] to select the desired item.
- 3 [SAVE] → [OFF]

Chain dial

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

- 1 During an outside call, press **[MENU]**.
- 2 "Phonebook" → **[SELECT]**
- 3 Find the desired item (page 22). → **[CALL]**

Note:

- When storing a calling card access number and your PIN in the phonebook as one phonebook item, press **[PAUSE]** to add pauses after the number and PIN as necessary (page 18).
- If you have rotary or pulse service, you need to press **[*]** before pressing **[MENU]** in step 1 to change the dialing mode temporarily to tone.

Copying phonebook items

You can copy one or all of the phonebook items from this unit to the phonebook of the base unit or a compatible Panasonic unit (KX-THA11/KX-THA12/KX-THA16/KX-THA17).

Important:

- The picture ID setting for phonebook items is not copied.
- In order to correctly copy a ringer ID as a phonebook item, the same melodies must be stored in identical order in the memories of both units involved. If the melody order in memory is different in the copy destination unit from the sending unit, the ringer ID will not be copied properly. (This is not necessary if the ringer ID is set to use a preset melody.)

- The melodies and songs for ringer ID are not copied to the base unit.

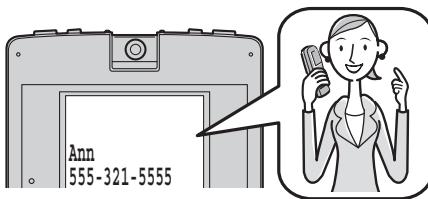
Copying an item

- 1 **[MENU]** (F6) →  → **[SELECT]**
- 2 **[COPY]**
- 3 "Copy 1 item" → **[SELECT]**
- 4 Select the destination unit. → **[SELECT]**
- 5 Find the desired item (page 22). → **[SEND]**
- 6 Press **[OFF]** after "Complete" is displayed.

Copying all items

- 1 **[MENU]** (F6) →  → **[SELECT]**
- 2 **[COPY]**
- 3 "Copy all items" → **[SELECT]**
- 4 Select the destination unit. → **[SEND]**
- 5 Press **[OFF]** after "Complete" is displayed.

Using Caller ID service



This unit is Caller ID compatible. To use Caller ID features, you must subscribe to your telephone company's Caller ID service.

Caller ID features

When an outside call is being received, the calling party's name and telephone number are displayed.

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

- Generally caller information is displayed from the 2nd ring.
- If the unit cannot receive caller information, the following is displayed:
 - “**Out of area**”: The caller dialed from an area which does not provide Caller ID service.
 - “**Private caller**”: The caller requested not to send caller information.
 - “**Long distance**”: The caller called you long distance.
- If the unit is connected to a PBX system, caller information may not be received properly. Consult your PBX supplier.

Private name display

When caller information is received and it matches a phone number stored in the phonebook, the stored name is displayed and logged in the caller list.

Call Waiting Caller ID display

If you subscribe to both Caller ID and Call Waiting with Caller ID services, the 2nd caller's information is displayed after you hear a Call Waiting tone (page 19).

Note:

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

Talking Caller ID

This feature lets you know who is calling without looking at the display. When a call comes in, the unit announces the caller's name displayed on the unit following every ring.

To use this feature, you must subscribe to your telephone company's Caller ID service.

- Name pronunciation may vary. This feature may not pronounce all names correctly.
- Caller ID supports names of up to 15 letters. If the caller's name has more than 15 letters, the name is not displayed or announced correctly.
- Usually the unit announces the caller's name after the 2nd ring.
- When you receive a call while on the phone, the 2nd caller's name is not announced even if you subscribe to both Caller ID and Call Waiting with Caller ID services.
- This feature can be turned on or off (page 48).

Ringer ID

This feature can help you identify who is calling by using different ringers for different callers stored in the phonebook (page 21). You can assign a different ringer to each phonebook item. When a call is received from a caller stored in the phonebook, the ringer is used after Caller ID information is displayed.

Picture ID

This feature can help you identify who is calling by using different pictures for different callers stored in the phonebook (page 21). You can assign a different picture to each phonebook item. When a call is received from a caller stored in the phonebook, the picture is used after Caller ID information is displayed.

Note:

- When both lines receive calls at the same time, picture IDs are not displayed for either line, even after one line answers the call individually.

Caller list

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

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 **[MENU] (F6) → CID → [SELECT]**
- 2 Press **[▼]** to search from the most recent call, or **[▲]** to search from the oldest call.
- 3 **[◀]**

Note:

- If the indicated line is already being used or you want to select the other line, select the desired line by pressing **[LINE1]** or **[LINE2]**.

Displayed symbols

- **1** and **2** indicate which line the caller information was received from.
- If the same caller calls more than once, it is displayed with the number of times the caller called ("×2" to "×9"). Only the date and time of the most recent call is 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 by removing its area code and/or the long distance code “1”.

1 [MENU] (F6) → CID → [SELECT]

2 Select the desired item.

3 Press [EDIT] repeatedly until the phone number is shown in the desired format.

① Local phone number

Example: **321-5555**

② Area code – Local phone number

Example: **555-321-5555**

③ 1 – Area code – Local phone number

Example: **1-555-321-5555**

4 [ESC]

Caller ID number auto edit feature

Once you call back an edited number, the unit can automatically edit other incoming phone numbers each time you receive a call.

For example, you can use this feature to set the unit to ignore the area code of callers in your area code, so that you can call these local numbers using caller information without dialing the area code. To activate this feature, you must edit an item in the caller list, then call that number. After that, phone numbers from that caller's area code are edited automatically. This feature can be turned on or off (page 48). The default setting is “On”.

Note:

- Phone numbers from the 4 most recently edited area codes are automatically edited.
- If you move to another area, you can turn this feature off to erase previously

edited area codes. To use this feature again, turn it on and reprogram the area codes you want to edit once again.

Storing caller information into the phonebook

1 [MENU] (F6) → CID → [SELECT]

2 Select the desired item.

- To edit the number, press [EDIT] repeatedly until the phone number is shown in the desired format.

3 [SAVE]

4 Continue from step 2, “Editing items in the phonebook”, page 23.

Erasing caller information

Erasing a selected item

1 [MENU] (F6) → CID → [SELECT]

2 Select the desired item.

3 [CLEAR] → [OFF]

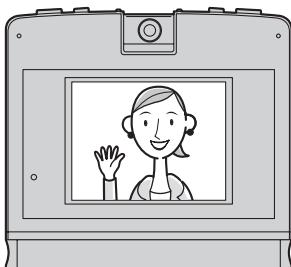
Erasing all items

1 [MENU] (F6) → CID → [SELECT]

2 [ERASE] → [YES]

3 Press [OFF] after “All erased” is displayed.

Video phone feature



The unit can be used to make and answer video calls, which allow you and the person you are talking to to see each other in real time.

Important:

- In order to use this feature on an intercom call, you must have another compatible Panasonic unit (KX-THA12/ KX-THA16/KX-THA17).
- During a video call, the call waiting tone is not heard and you cannot answer the 2nd call on the same line.
- Only 1 person at a time can have a video call with an outside party.

Note:

- It may take time to connect the video call between you and the other party. When the video connection is completed, "Preparing" disappears from the display and you can start talking with the other party.
- For privacy, you can set privacy image (page 31) in advance. When a video call starts, the unit sends the privacy image to the other party instead of your live video.
- If you subscribe to Call Waiting service, the call waiting signal may disrupt the video call. To keep the line quality stable, you may temporarily disable Call Waiting service before making a call. Please consult your service provider for the code to disable this service.

Compatibility

To have a video call with the other party, the other party must also have a compatible Panasonic unit (KX-THA12/ KX-THA16/KX-THA17) with the base unit (KX-TH102) or ITU-T H.324 compatible device. To maximize the performance capabilities, we highly recommend that both you and the other party have a compatible Panasonic unit (KX-THA12/ KX-THA16/KX-THA17) to have a video call.

- Depending on the compatibility of the other party's video phone, both video and voice call may be disconnected even if you press **[VIDEO OFF]** or **[VIDEO]** to switch to a voice call.

Connection quality

The quality of video calls depends on the quality of the connection between your phone and the other party's phone. If connection quality degrades during a video call and **L1** or **L2** turns red, the unit may change the call to a voice call automatically and the video connection may end.

Making a video call

- 1 During a call, press **[VIDEO ON]** or **[VIDEO]** to start the video call.
 - Aim the camera lens toward yourself by rotating the lens.
 - Your unit displays a view of yourself until the video call is connected, then it displays the live video of the other party.
 - Either caller can begin a video call by pressing **[VIDEO ON]** or **[VIDEO]**. If both parties press **[VIDEO ON]** or **[VIDEO]** at the same time, the video call connection may fail, returning you to voice call.
- 2 To switch to a voice call, press **[VIDEO OFF]** or **[VIDEO]**.

- To end the call, press [OFF].

Adjusting the speaker volume

Press [**▲**] or [**▼**] while talking.

Answering a video call

- 1 If the other party initiates a video call during a voice call, your unit switches to a video call automatically.
- 2 To switch to a voice call, press [VIDEO OFF] or [VIDEO].
 - To end the call, press [OFF].

Useful settings during a video call

HOLD button

You can put an outside call on hold during a video call.

During a video call, press [HOLD].

Note:

- If the hold option is set to “Hold only” (page 31), the video call is put on hold and the privacy image set for hold (page 31) is sent to the other party. You cannot transfer the video call. To return to the video call, press [RESUME].
- If the hold option is set to “Transfer(audio)”, the video call is canceled and the voice call is put on hold. To return to the voice call, press [LINE1] or [LINE2] that is flashing.
- If a call is kept on hold for more than 6 minutes, an alarm tone starts to sound. After 4 additional minutes on hold, the call is disconnected.

Selecting image zoom

You can zoom in on the other party's image on your display.

- 1 During a video call, press [MENU].
- 2 “Display mode” → [SELECT]

- 3 Press [**▶**] to select the zoom mode. Press [**◀**] to return to the wide mode.

4 [SAVE]

Selecting the display view

You can select what is displayed on your unit during a video call.

- Combo view (default): Both you and the other party are displayed on your screen.
- Other party view: Only the other party is displayed on your screen.
- Self view: Only you are displayed on your screen.

- 1 During a video call, press [VIEW MODE].

- 2 Press [VIEW MODE] repeatedly to select the desired view mode.

Note:

- When you select “Privacy image” in “Video phone mode” (page 31), you cannot select the self view.

Adjusting the display sharpness

- 1 During a video call, press [MENU].

- 2 “Sharpness” → [SELECT]

- 3 Select the desired sharpness.

- If you want to improve the display sharpness, move the cursor to the right (the smoothness of motion decreases).
- If you want to improve the smoothness of motion, move the cursor to the left (the image clarity decreases).

4 [SAVE]

Adjusting the display brightness

- 1 During a video call, press [MENU].
- 2 “Brightness” → [SELECT]

Video Phone

3 Press [\blacktriangleright] to improve the brightness.
Press [\blacktriangleleft] to decrease the brightness.

4 [SAVE]

Adjusting the self view size

You can zoom in or out of your self image seen by the other party.

1 During a video call, press [**MENU**].

2 "Self view zoom" \rightarrow [**SELECT**].

3 Press [\blacktriangleright] to zoom in.
Press [\blacktriangleleft] to zoom out.

4 [SAVE]

Displaying the image upside down

You can turn the image of you seen by the other party upside down.

1 During a video call, press [**MENU**].

2 "Upside down" \rightarrow [**SELECT**]

Taking/showing a picture during a video call

Taking a picture

During a video call, you can take a picture of the other party.

During a video call, press [**CAPTURE**].

Note:

- To view the image, see "Picture gallery", on page 41.

Pausing your live video

During a video call, you can pause your live video to send your high resolution still image to the other party. You can continue talking while you are using this feature. You can also use this feature for privacy.

During a video call, press [**PAUSE VIDEO**].

- To resume sending live video, press [**PAUSE VIDEO**].

Showing an image

During a video call, you can send an image to the other party instead of live video. You can also use this feature for privacy.

1 During a video call, press [**PRIVACY IMAGE**].

2 Select the desired item. \rightarrow [**SELECT**]

Sample pictures	Images stored in the unit at the time of purchase.
My pictures	Images you stored in the unit (page 41).

3 Select the desired image. \rightarrow [**SEND**]

Resuming the live video

When showing a privacy image during a video call, you can return to the live video. Press [**PRIVACY IMAGE**].

Video phone settings

Video phone mode

You can select to send live video or a privacy image during a video call. If you select “**Privacy image**”, the image selected as “**Start**” of the privacy image (page 31) is sent to the other party instead of live video.

- 1 [MENU] (F6) →  → [SELECT]
- 2 “**video phone mode**” → [SELECT]
- 3 Select the desired item. (Default: “**Live video**”) → [SAVE] → [OFF]

Video access

If this feature is set to “**Deny**”, the unit does not automatically activate video calls when the other party requests them.

- 1 [MENU] (F6) →  → [SELECT]
- 2 “**video access**” → [SELECT]
- 3 Select the desired item. (Default: “**Permit**”) → [SAVE] → [OFF]

Note:

- When this feature is set to “**Deny**”, you can start a video call by pressing **[VIDEO ON]** or **[VIDEO]**.

Hold options

This feature determines how the hold mode functions during a video call.

- “**Hold only**”: When you activate hold mode, the video call is put on hold and the unit sends the privacy image (page 31) to the other party. You cannot transfer a call that is on hold.
- “**Transfer(audio)**”: When you activate hold mode, the video call is canceled and the voice call is put on hold. You can transfer a call that is on hold (page 32).

- 1 [MENU] (F6) →  → [SELECT]

- 2 “**Hold options**” → [SELECT]

- 3 Select the desired item. (Default: “**Hold only**”) → [SAVE] → [OFF]

Privacy image

You can select a privacy image to be seen by the other party during a video call instead of your live video. You can also select a privacy image to be shown for the duration of the call, or only when you put a video call on hold.

- “**Start**”: The privacy image is seen by the other party during a video call instead of your live video. You need to select “**Privacy image**” in “**Video phone mode**” beforehand (page 31).
- “**Hold**”: The privacy image is seen by the other party when you put a video call on hold. You need to select “**Hold only**” in “**Hold options**” beforehand (page 31).

- 1 [MENU] (F6) →  → [SELECT]

- 2 “**Privacy image**” → [SELECT]

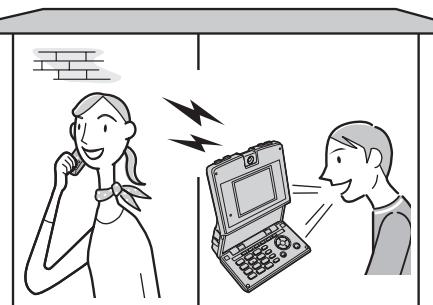
- 3 Select “**Start**” or “**Hold**”. → [SELECT]

- 4 Select the desired item. → [SELECT]

Sample pictures	Images stored in the unit at the time of purchase.
My pictures	Images you stored in the unit (page 41).

- 5 Select the desired image. → [SAVE] → [OFF]

Intercom feature



Intercom calls can be made between this unit and the base unit, and between this unit and another compatible Panasonic unit (KX-THA11/KX-THA12/KX-THA16/KX-THA17).

Making intercom calls

1 [INTERCOM]

2 To page the base unit, press **[0]**.
To page the handset, enter its extension number (**[1]** to **[8]**).

- The destination unit beeps for 1 minute.
- To stop paging, press **[OFF]**.

3 To end the intercom call, press **[OFF]**.

Answering intercom calls

When the unit is being paged, it rings and displays the extension number of the paging party.

1 Press **[** to answer the page.

2 To end the intercom call, press **[OFF]**.

Note:

- The ringer volume for intercom calls follows the higher volume level of the 2 lines (page 42).
- When the ringer volume is set to off for both lines, the unit will ring at the low level for intercom calls.

Transferring a call

Outside calls can be transferred between this unit and the base unit, and between this unit and another compatible Panasonic unit (KX-THA11/KX-THA12/KX-THA16/KX-THA17).

Transferring calls

1 During an outside call, press **[INTERCOM]** to put the call on hold.

2 To page the base unit, press **[0]**.

To page the handset, enter its extension number (**[1]** to **[8]**).

- If you do not wish to announce the transfer, skip to step 4.

3 Wait for the paged party to answer.

- If the paged party does not answer, press **[LINE1]** or **[LINE2]** that is flashing to return to the outside call.

4 To complete the transfer, press **[OFF]**.

Note:

- If the paged party does not answer within 1 minute after you hang up, your phone rings and the call is returned to your phone. You can speak to the caller again by pressing **[LINE1]** or **[LINE2]**.

Answering transferred calls

Press **[** to answer the page.

- After the paging party hangs up the call, you can talk to the outside caller.

Note:

- If the paging party hangs up before you answer the page, "Incoming call" is displayed. Press **[LINE1]** or **[LINE2]** to take the transferred call.

Transferring a call to the answering system

When you answer a call and the caller wants to talk to someone who is not available, you can transfer the caller to the answering system, where the caller can leave a message.

Tell the outside caller you will transfer him or her to the answering system.

1 During an outside call, press **[INTERCOM]** to put the call on hold.

2 Press **[9]** to hang up the call.

Note:

- After you press **[9]**, the caller hears the greeting message and can leave a message after the beep.

Conference calls

Conference call with 2 outside calls

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

1 During an outside call, press **[HOLD]** 2 times.

2 To answer a 2nd call, press **[LINE1]** or **[LINE2]**.

To make a 2nd call, press **[LINE1]** or **[LINE2]**, then dial the phone number.

3 When the 2nd call is connected, press **[CONF]** to make a conference call.

- To hang up only one line, press **[LINE1]** or **[LINE2]** for the party with which you want to continue talking.
- To put both lines on hold, press **[HOLD]**. To talk with only one caller, press **[LINE1]** or **[LINE2]** for the party with which you want to continue talking. To resume both lines, press **[CONF]**.

Note:

- Multiple parties can join a conference call. The possible number of participating parties depends on the resources available for wireless communication.
When another participating party cannot join a conversation, “**System is busy. Please try again later.**” is displayed.

Conference call with an outside call and an intercom call

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

- 1** During an outside call, press **[INTERCOM]**.
- 2** To page the base unit, press **[0]**.
To page the handset, enter its extension number (**[1]** to **[8]**).
- 3** When the paged party answers, press **[CONF]** to make a conference call.
 - To leave the conference, press **[OFF]**. The other 2 parties can continue the conversation.

Note:

- The outside call can be put on hold by pressing **[HOLD]**. Only the person who placed the call on hold can resume the full conference by pressing **[CONF]**.
- Multiple parties can join a conference call. The possible number of participating parties depends on the resources available for wireless communication.

When another participating party cannot join a conversation, “**System is busy. Please try again later.**” is displayed.

Call share

This feature allows the unit to join an existing outside call.

Joining a conversation

Join the conversation by pressing **[LINE1]** or **[LINE2]** to select the line that is being used by another extension for an outside call.

- “**Conference**” is displayed.

Note:

- Multiple parties can join a conference call. The possible number of participating parties depends on the resources available for wireless communication.

When another participating party cannot join a conversation, “**System is busy. Please try again later.**” is displayed.

Call privacy

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

To turn this feature on/off, press **[PRIVACY]**.

Note:

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

Monitoring feature

This feature allows you to monitor the room where this or another unit is located. The monitored unit does not ring, allowing you to easily monitor a baby's room, for example, from different areas of the house.

You can monitor:

- the sound in a room ("Audio monitor", page 35)
- the image and sound of a room ("Video monitor", page 36).

Enabling monitoring access

To use the monitoring feature, you need to set the destination unit to be monitored beforehand.

- "Permit": allows the unit to be monitored.
- "Deny": denies access from other units.

1 [MENU] (F6) →  → [SELECT]

2 "Monitor access" → [SELECT]

3 Select the desired setting. (Default: "Deny") → [SAVE] → [OFF]

Audio monitor



This feature allows you to listen to the audio in the room where the handset or base unit is located.

Before using this feature, allow access to the destination unit by selecting "Permit" in the monitor access setting (page 35).

Monitoring audio in the room

1 [MONITOR] (F5)

2 "Audio only" → [SELECT]

3 Select the desired unit. → [SELECT]

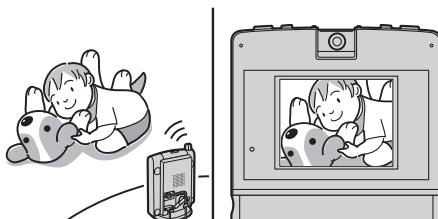
- You can listen to the audio in the room through the destination unit.

4 Press [OFF] to stop monitoring.

Note:

- To start monitoring quickly, press [INTERCOM], then press [＊] instead of steps 1 and 2.

Video monitor



This feature allows the unit to monitor the image and sound of the room where the compatible Panasonic unit (KX-THA12/KX-THA16/KX-THA17) or the cordless camera (KX-THA13) is located.

Important:

- Before you start monitoring, confirm that the camera lens of the monitored unit has been adjusted to the correct angle.
- Only 1 person can access to the cordless camera at a time.

Before using this feature, allow access to the destination unit by selecting "Permit" in the monitor access setting (page 35).

Monitoring the room

- 1 **[MONITOR]** (F5)
- 2 "Camera & Audio" → **[SELECT]**
- 3 Select the desired unit. → **[SELECT]**
 - To start/finish talking with the other party, press **[2WAY]**.
- 4 Press **[OFF]** to stop monitoring.

Note:

- When **[Call button]** of the cordless camera is pressed while monitoring the cordless camera with this unit, **[2WAY]** flashes on the display to notify you that the cordless camera is paging you. Press **[2WAY]** to answer the page.

Adjusting speaker volume

Press **[▲]** or **[▼]** while monitoring.

Taking a picture of the displayed image while monitoring

Press **[CAPTURE]** when the desired image is displayed.

- A title is assigned to the image and the image is saved.

Note:

- To view the image, see "Picture gallery" on page 41.

When paged from the cordless camera using the sensor (For KX-THA13 users)

The unit can be paged from the cordless camera when the camera sensor detects motion and/or audio. Then you can answer the page to monitor the live video from the cordless camera.

And also, the cordless camera takes pictures (a total of 4 pictures, default) at the time of detection and stores them. You can view the images stored in the cordless camera using your unit, then select and save the desired images into your unit.

Important:

- While monitoring using the cordless camera, you can change the cordless camera settings. Refer to the operating instructions of the KX-TH102-M or KX-THA13 for more information.

1 Cordless camera (KX-THA13):

The cordless camera detects motion and/or sound.

- The cordless camera produces a camera tone and takes pictures.
- The cordless camera pages the unit for 30 seconds.

2 Cordless video camera station (KX-THA16):

Press [] to answer the page.

- You can monitor the room where the cordless camera is located.
- To start/finish talking with the other party, press [**2WAY**].

3 Cordless video camera station (KX-THA16):

Press [**OFF**] to stop monitoring.

If “Camera detect” is displayed

If you do not answer the page from the cordless camera, “**Camera detect**” is displayed on the unit. This lets you know if you should monitor the cordless camera which has paged you.

1 [MONITOR] (F5)**2 “**Camera & Audio**” → [SELECT]****3 Select the cordless camera (indicated by). → [SELECT]****4 Press [**OFF**] to stop monitoring.****Viewing and saving images from the cordless camera into the unit**

You can view the images stored in the cordless camera and save them in the unit.

1 Start monitoring (page 36). → [MENU]**2 “**Stored images**” → [SELECT]****3 Select the desired image.**

- To zoom in, press [**ZOOM**] repeatedly. To return to the original view, press [**WIDE**].

4 To store the displayed image, press [SAVE**].**

- A title is assigned to the image and the image is saved in the unit.
- To save other items, repeat from step 3.

5 Press [OFF**] when finished.****Note:**

- To view the image, see “**Picture gallery**” on page 41.

Erasing all images in the cordless camera**1 Start monitoring (page 36). → [MENU]****2 “**Stored images**” → [SELECT]****3 [ALL ERASE] → [YES]****4 Press [**OFF**] after “**All erased**” is displayed.**

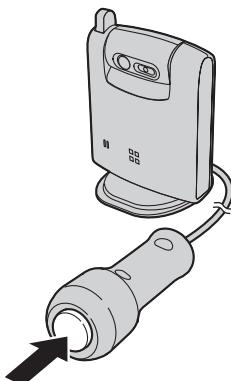
When paged from the cordless camera using the call button (For KX-THA13 users)

The cordless camera user can page your unit by pressing **[Call button]**. Then you can answer the page to monitor the live video from the cordless camera using your unit.

1 Cordless camera (KX-THA13):

Press **[Call button]**.

- The cordless camera produces a camera tone.
- To stop paging, press **[Call button]** again.
- The cordless camera pages the unit for 30 seconds.



2 Cordless video camera station (KX-THA16):

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

- You can monitor the room where the cordless camera is located.
- You can also talk with the cordless camera user. To finish talking, press **[2WAY]**.

3 Cordless camera (KX-THA13):

When the paged party answers, speak clearly into the MIC.

4 Cordless video camera station (KX-THA16):

Press **[OFF]** to stop monitoring.

If "Camera detect" is displayed

If you do not answer the page from the cordless camera, "Camera detect" is displayed on the unit. This lets you know if you should monitor the cordless camera which has paged you. To monitor the cordless camera, see page 37.

Useful display settings while monitoring

Selecting image zoom

1 Start monitoring (page 36). → **[MENU]**

2 "Zoom" → **[SELECT]**

3 Press **[ZOOM]** to zoom in (1.5 x zoom) on the image.

- Press **[ZOOM]** again for 3 x zoom. When viewing at 3 x zoom, you can press **[]**, **[]**, **[]**, or **[]** to select the viewable area.
- To return to the original view, press **[WIDE]**.

4 **[SAVE]**

Note:

- When you finish monitoring, the saved image size returns to its original view.

Adjusting the display sharpness

1 Start monitoring (page 36). → **[SHARPNESS]**

2 Select the desired sharpness.

- If you want to improve the display sharpness, move the cursor to the right (the smoothness of motion decreases).
- If you want to improve the smoothness of motion, move the cursor to the left (the image clarity decreases).

3 **[SAVE]**

Adjusting the display brightness

- 1** Start monitoring (page 36). → **[BRIGHTNESS]**
- 2** Press **[▶]** to improve the brightness.
Press **[◀]** to decrease the brightness.
- 3** **[SAVE]**

Displaying the image upside down

You can turn the camera image upside down. This feature is useful when you mount the cordless camera upside down. Start monitoring (page 36). → **[UPSIDE DOWN]**

Taking a picture

You can take a picture using the unit's built-in camera. The images can be used for the phonebook (page 21), as wallpaper patterns (page 44), slide show pictures (page 45), and as privacy images (page 31) for video calls using the unit.

1 [CAMERA VIEWER] (F4)

- Aim the camera lens by rotating the lens forward or backward (page 14).

2 "Camera" → [SELECT]

3 [CAPTURE] → [OFF]

Selecting the picture size

1 Follow steps 1 and 2, "Taking a picture".

2 Press [PICTURE SIZE].

3 Select the desired size. (Default: "Large (320x240)")

4 [SAVE]

- To zoom in:
 - on large size images, press [ZOOM].
 - on small size images, press [ZOOM] repeatedly.

To return to the original view, press [WIDE].

Note:

- Only small size images can be used as privacy images (page 31) and picture IDs (page 26).

Adjusting the image brightness

1 Follow steps 1 and 2, "Taking a picture".

2 Press [BRIGHTNESS].

3 Press [▶] to improve the brightness. Press [◀] to decrease the brightness.

4 [SAVE]

Displaying the image upside down

1 Follow steps 1 and 2, "Taking a picture".

2 Press [UPSIDE DOWN].

Note:

- A maximum of 98 images can be stored in the unit. The number of images may decrease depending on the size of images and songs stored in the unit.

Picture gallery

You can view all images you stored in the unit. Pictures are displayed with a different size depending on which size you selected when you take a picture.

Important:

- You can use your computer with the MULTI TALK V USB Utility to view, copy, edit, and save the images. Refer to the help section of the MULTI TALK V USB Utility application for more information.

1 **[CAMERA VIEWER]** (F4)

2 “viewer” → **[SELECT]**

3 Press **[▲]** or **[▼]** to select the desired image.

- To display the title list, press **[TITLE LIST]**. To return to the image list, press **[IMAGE LIST]**.
- You can zoom in on small size images by pressing **[ZOOM]**. To return to the original view, press **[WIDE]**.

4 **[OFF]**

Editing the image title

1 Press **[EDIT TITLE]** while viewing the desired image.

2 Edit the title (max. 15 characters; page 22). → **[SAVE]** → **[OFF]**

Erasing images

Important:

- If the erased image was selected for the wallpaper, the sample picture (default) is used instead of that image.
- If the erased image was assigned to phonebook items, the picture ID assignment is canceled.
- If the erased image was added to the play list, the image in the play list is also erased.

Erasing the selected image

1 Press **[ERASE]** while viewing the desired image.

2 “Erase” → **[SELECT]** → **[YES]** → **[OFF]**

Erasing all images

1 Press **[ERASE]** while viewing.

2 “All erase” → **[SELECT]** → **[YES]**

3 Press **[OFF]** after “All erased” is displayed.

Ringer settings



Important:

- Many of the following features can be programmed using the MULTI TALK V USB Utility. Refer to the help section of the MULTI TALK V USB Utility application for more information. For software installation details, refer to the "Installation Guide for MULTI TALK V Software" included with your base unit.

Ringer volume

- 1 [MENU] (F6) → **▲** → [SELECT]
- 2 "Ringer volume" → [SELECT]
- 3 Select the desired line.
- 4 Select the desired volume. (Default: High)
 - To turn the ringer off, press **▼** repeatedly until "OFF ?" is displayed.
- 5 [SAVE] → [OFF]

Note:

- When the ringer volume is set to off for a line, the unit does not ring for outside calls received on that line.

Ringer tone

You can change the ringer tone heard when an outside call is received.

Important:

- You can record songs for the ringer tone from an audio device (page 43).
- You can copy songs (in WAV file format using a computer) to be used for the ringer tone. Refer to the help section of the MULTI TALK V USB Utility application for more information.

- 1 [MENU] (F6) → **▲** → [SELECT]
- 2 "Ringer tone" → [SELECT]
- 3 Select the desired line.
- 4 Select the desired item. (Default: Line 1: "Tone 1", Line 2: "Tone 2") → [SAVE] → [OFF]

Note:

- If you subscribe to a distinctive ring service (such as IDENT-A-RING), select a tone (tone 1 to 3) for the ringer tone. If you select a melody or a song, you cannot distinguish lines by their ringers.
- If you select a melody or a song for the ringer tone, the ringer continues to sound for several seconds if:
 - the caller hangs up before you answer the call.
 - another person answers the call using another phone connected on the same line.
- The preset song "Melody 1" in this product is used with the permission of © 2005 Speed Crazy.
- The preset songs "Tone 4", "Tone 5", and "Melody 2" in this product are used with the permission of © 2005 M-ZoNE Co., Ltd.

Recording songs from an audio device for ringer tones

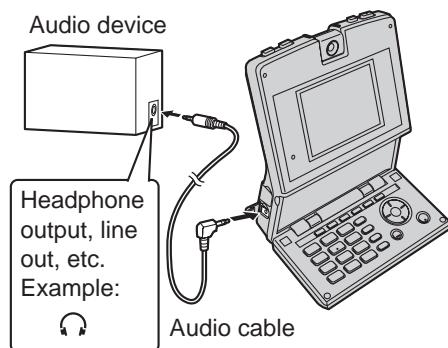
(“Customize ring”)

You can record songs (max. 5 minutes each) from an audio device by connecting the audio cable included with your base unit. These songs can be assigned as the ringer tone (page 42) and the ringer ID (page 26) for phone numbers stored in the phonebook. You can also use a song for the background music during the slide show (page 45).

Important:

- If a call is received while a song is being recorded or played back, recording or playback stops automatically. Disconnect the audio cable from the unit to answer the call.

1 Connect the audio device (such as a CD player or computer) to the unit using the audio cable included with your base unit.



2 [MENU] (F6) → ▲ → [SELECT]

3 “Customize ring” → [SELECT]

4 “Record” → [SELECT]

5 Start playing the audio device.

6 Press [REC.] to start recording.

7 To stop recording, press [STOP].

- To listen to the recording, select “Playback”, then press [SELECT].
- To re-record, select “Retry”, press [SELECT], then start from step 5.

8 “Save” → [SELECT]

9 Enter the desired name (max. 15 characters; page 22).

10 [SAVE] → [OFF]

11 Disconnect the audio cable from the unit.

Note:

- The total recording time is about 9 minutes. A maximum of 20 songs can be stored. The recording time may decrease depending on the size of images and songs stored in the unit.

Playing back a song

1 [MENU] (F6) → ▲ → [SELECT]

2 “Customize ring” → [SELECT]

3 “Playback” → [SELECT]

4 Select the desired song. → [PLAY]

5 [STOP] → [OFF]

Programmable Settings

Erasing a song

While the song is selected or playing, press **[ERASE]**, then press **[YES]**.

Note:

- If the erased song was used for the ringer tone (page 42), “**Tone 1**” or “**Tone 2**” (default) is used instead of that song.
- If the erased song was assigned to certain callers as ringer ID (page 26), the ringer ID assignment is canceled, and the ringer tone (page 42) is used instead of that song.
- If the erased song was used for the background music during the slide show (page 45), the music is turned off.

Changing the name of a song

- 1** **[MENU]** (F6) → **▲** → **[SELECT]**
- 2** “**Customize ring**” → **[SELECT]**
- 3** “**Edit title**” → **[SELECT]**
- 4** Select the desired song. → **[EDIT]**
- 5** Edit the name (max. 15 characters; page 22).
- 6** **[SAVE]** → **[OFF]**

Interrupt tone

This tone lets you know when you receive a call while you are on the other line, on an intercom call, on a video call, or monitoring a room.

- “**2**”: The tone sounds 2 times.
- “**On**”: The tone sounds for as long as the line rings.
- “**Off**”: Turns this feature off.

- 1** **[MENU]** (F6) → **▲** → **[SELECT]**
- 2** “**Interrupt tone**” → **[SELECT]**
- 3** Select the desired setting. (Default: “**2**”) → **[SAVE]** → **[OFF]**

Display settings

Wallpaper

You can select the “wallpaper” pattern shown on the display in standby mode.

- 1** **[MENU]** (F6) → **■** → **[SELECT]**
- 2** “**Wallpaper**” → **[SELECT]**
- 3** Select the desired setting. → **[SELECT]**
 - If you select “**Turn off**”, skip to step 7.
- 4** Select the desired item.
- | | |
|------------------------|--|
| Calendar | Calendar is displayed in standby mode. Skip to step 7. |
| Sample pictures | Images stored in the unit at the time of purchase. |
| My pictures | Images you stored in the unit (page 41). |
- 5** **[SELECT]**
- 6** Select the desired image.
 - You can zoom in on small size images by pressing **[ZOOM]**. To return to the original view, press **[WIDE]**.
- 7** **[SAVE]** → **[OFF]**

Note:

- You can use images in “**My pictures**” as wallpaper. Any of the following can be used:
 - pictures taken with the unit’s built-in camera (page 40).
 - pictures taken during a video call (page 30).
 - pictures copied to your unit from your computer (refer to the help section of the MULTI TALK V USB Utility application for more information).

- If you have missed calls or new messages, the selected calendar is not displayed.

Display color

- 1 [MENU] (F6) →  → [SELECT]
- 2 "Appearance" → [SELECT]
- 3 Select the desired setting. (Default: "Color 1") → [SAVE] → [OFF]

Display contrast

- 1 [MENU] (F6) →  → [SELECT]
- 2 "LCD contrast" → [SELECT]
- 3 Select the desired setting. (Default: Level 5) → [SAVE] → [OFF]

Slide show

This feature allows you to view images as a slide show while the unit is in standby mode. To use this feature, select which images to be displayed by adding them to the "play list", then turn the feature on. You can select the order that images are displayed in, select the amount of time each image is displayed on the screen (slide show speed), select the length of the slide show (time-out), and select music that is played during the slide show.

Adding images to the play list

You can add up to 20 images from the picture gallery (page 41) to the play list.

- 1 [MENU] (F6) →  → [SELECT]
- 2 "Play list" → [SELECT] → [ADD NEW]
- 3 Select the desired item. → [SELECT]

Sample pictures	Images stored in the unit at the time of purchase.
My pictures	Images you stored in the unit (page 41).

- 4 Select the desired image.
 - You can zoom in on small size images by pressing [ZOOM]. To return to the original view, press [WIDE].
- 5 [SELECT]
 - To add other images, repeat from step 4.
- 6 [OFF]

Programmable Settings

Viewing the play list

- 1 [MENU] (F6) →  → [SELECT]
- 2 "Play list" → [SELECT]
 - To display the image list, press [IMAGE LIST].
 - To display the title list, press [TITLE LIST].
- 3 [OFF]

Erasing the selected image from the play list

- 1 Press [ERASE] while viewing the desired image in the play list.
- 2 "Erase" → [SELECT] → [YES] → [OFF]

Note:

- The image in the picture gallery is retained.

Erasing all images from the play list

- 1 Press [ERASE] while viewing the play list.
- 2 "All erase" → [SELECT] → [YES]
- 3 Press [OFF] after "All erased" is displayed.

Turning the slide show on

Press [SLIDE SHOW ON] (F1).

- If you have not added any pictures in the play list, follow from step 2, "Adding images to the play list", page 45.

Turning the slide show off

Press [SLIDE SHOW OFF] (F1).

Selecting a play pattern in a slide show

You can select the order that images are displayed in.

- "Sequential": Images are displayed in the order they were added to the play list.
- "Random": Images are displayed in random order.

- 1 [MENU] (F6) →  → [SELECT]
- 2 "Play pattern" → [SELECT]
- 3 Select the desired pattern. (Default: "Sequential")
- 4 [SAVE] → [OFF]

Setting the slide show speed

You can select the amount of time each image is displayed.

- 1 [MENU] (F6) →  → [SELECT]
- 2 "Slide-show speed" → [SELECT]
- 3 Select the desired setting. (Default: "10 seconds")
- 4 [SAVE] → [OFF]

Setting the slide show time-out

You can select the length of the slide show. The slide show will stop automatically after the time expires.

- 1 [MENU] (F6) →  → [SELECT]
- 2 "Time-out" → [SELECT]
- 3 Select the desired setting. (Default: "1 hour")
- 4 [SAVE] → [OFF]

Setting the background music

You can select a song to be played during the slide show.

Important:

- You can record a song from an audio device (page 43) for use with this feature.
- You can download a song (in WAV file format from a computer) for use with this feature. Refer to the help section of the MULTI TALK V USB Utility application for more information.

1 [MENU] (F6) →  → [SELECT]

2 "Background music" → [SELECT]

3 Select the desired item. (Default: "off")

4 [SAVE] → [OFF]

Adjusting the music volume

1 [MENU] (F6) →  → [SELECT]

2 "Music volume" → [SELECT]

3 Select the desired volume. (Default: "2")

4 [SAVE] → [OFF]

Note:

- You can also adjust the music volume by pressing **[▲]** or **[▼]** during the slide show.

Other settings

Date and time

- You only need to program this setting once using either this unit, the handset, or the base unit.

1 [MENU] (F6) →  → [SELECT]

2 "Date and time" → [SELECT]

3 Enter the current month, day, and year by selecting 2 digits for each.

Example: May 15, 2006

[0][5] [1][5] [0][6].

4 Enter the current hour and minute (12-hour clock format) by selecting 2 digits for each.

Example: 9:30

[0][9] [3][0]

5 Press **[*]** to select "AM" or "PM".

6 [SAVE] → [OFF]

Note:

- If you make a mistake when entering the date and time, press **[▲]**, **[▼]**, **[◀]**, or **[▶]** to move the cursor, then make the correction.

Time adjustment (Caller ID subscribers only)

This feature allows the unit to automatically adjust the date and time setting when caller information is received. To turn this feature on, select "Caller ID[auto]". To turn this feature off, select "Manual".

- You only need to program this setting once using either this unit, the handset, or the base unit.

Important:

- To use this feature, set the date and time manually first (page 47).

Programmable Settings

- 1 [MENU] (F6) →  → [SELECT]
- 2 “Time adjustment” → [SELECT]
- 3 Select the desired setting. (Default: “Caller ID[auto]”) → [SAVE] → [OFF]

Changing the unit name

The unit can be given a customized name (“Bob”, “Kitchen”, etc.), this is useful when you have multiple units.

- 1 [MENU] (F6) →  → [SELECT]
- 2 “Device name” → [SELECT]
- 3 Enter the desired name (max. 10 characters; page 22). (Default: “LCD unit”)
- 4 [SAVE] → [OFF]

Voice enhancer

You can turn the voice enhancer feature on or off for the unit.

- 1 [MENU] (F6) →  → [SELECT]
- 2 “voice enhancer” → [SELECT]
- 3 Select the desired setting. (Default: “off”) → [SAVE] → [OFF]

Talking Caller ID

You can turn the Talking Caller ID feature on or off for the unit.

- 1 [MENU] (F6) →  → [SELECT]
- 2 “Talking CallerID” → [SELECT]
- 3 Select the desired setting. (Default: “on”) → [SAVE] → [OFF]

Key tone

You can select whether or not key tones are heard when keys are pressed. Key tones include confirmation tones and error tones.

- 1 [MENU] (F6) →  → [SELECT]
- 2 “Key tone” → [SELECT]
- 3 Select the desired setting. (Default: “on”) → [SAVE] → [OFF]

Caller ID number auto edit

You can turn the Caller ID number auto edit feature on or off.

- 1 [MENU] (F6) →  → [SELECT]
- 2 “Caller ID edit” → [SELECT]
- 3 Select the desired setting. (Default: “on”) → [SAVE] → [OFF]

Setting telephone line

Line selection

The line selection mode determines which line is selected when you press .

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

- 1 [MENU] (F6) →  → [SELECT]
- 2 “Set tel line” → [SELECT]
- 3 “Line select” → [SELECT]
- 4 Select the desired setting. (Default: “Auto”) → [SAVE] → [OFF]

Note:

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

Dialing mode

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

“**Tone**”: For tone dial service.

“**Pulse**”: For rotary pulse dial service.

- You only need to program this setting once, using either this unit, the handset, or the base unit.

1 [MENU] (F6) →  → [SELECT]

2 “Set tel line” → [SELECT]

3 “Set dial mode” → [SELECT]

4 Select the desired setting. (Default: “**Tone**”) → [SAVE] → [OFF]

Flash time

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

- You only need to program this setting once using either this unit, the handset, or the base unit.

Important:

- The setting should stay at 700 ms unless pressing [FLASH] fails to pick up the Call Waiting call.

1 [MENU] (F6) →  → [SELECT]

2 “Set tel line” → [SELECT]

3 “Set flash time” → [SELECT]

4 Select the desired line.

5 Select the desired setting. (Default: “**700ms**”) → [SAVE] → [OFF]

Note:

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

Line mode

Generally, the line mode setting should not be adjusted.

When another phone connected to the same line is in use, and

- if **L1** or **L2** is not displayed on this unit, or
- if **[LINE1]** or **[LINE2]** button light is off on the base unit, you need to change the line mode to “**A**”.

- You only need to program this setting once using either this unit, the handset, or the base unit.

1 [MENU] (F6) →  → [SELECT]

2 “Set tel line” → [SELECT]

3 “Set line mode” → [SELECT]

4 Select the desired line.

5 Select the desired setting. (Default: “**B**”) → [SAVE] → [OFF]

Memory status

You can confirm the amount of unit’s memory used for your images and songs.

- The images and songs are stored in the same memory (in addition to the preset images and songs). A maximum of 98 images and a maximum of 20 songs can be stored. The number of stored images and songs may decrease depending on the size of each file, the number of files, etc.

Memory usage

File type	Quantity	Memory used
Image	1 image	1 %
Song	30 seconds	4 %

1 [MENU] (F6) →  → [SELECT]

2 “Memory status” → [SELECT]

- The memory status is displayed.

3 [OFF]

Customer support

The unit can display the Internet address where you can download the operating instructions or get further information for this product using your computer.

- 1** [MENU] (F6) →  → [SELECT]
- 2** “Customer support” → [SELECT]
 - The Internet address is displayed.
- 3** [OFF]

Answering system feature



Important:

- Only 1 person can access the answering system (listen to messages, record a greeting message, etc.) at a time.
- When callers leave messages, the answering system records the day and time of each message. Make sure the date and time have been set (page 47).
- The answering system can be set up (turning the answering system on, recording a greeting message, etc.) using your base unit. For more information, see the operating instructions included with your base unit.

Memory capacity

The total recording capacity (including your greeting message, caller messages, and voice memos) is about 60 minutes. A maximum of 99 messages (including a greeting message) can be recorded.

- If less than 10 minutes of recording time is available, the unit announces the remaining recording time when operating the answering system.
- Messages are retained even if a power failure occurs.

Listening to messages

When new messages have been recorded, "New message" is displayed.

1 **[MENU]** (F6)

2 **→ [SELECT]**

- The unit plays new messages including memo messages.
- When you have no new messages, the unit plays back all messages.

3 Press **[OFF]** when finished.

Adjusting the speaker volume

Press **[▲]** or **[▼]** while listening to a message.

Voice guidance

If you do not press any buttons after the last message is played back, the unit's voice guidance starts. Operate the answering system by following the guidance as necessary.

Useful features during playback

Calling back (Caller ID subscribers only)

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

Press **[LINE1]** or **[LINE2]** during playback.

Note:

- To edit the number before calling back, press **[EDIT]** to select the desired format (page 27).

Answering system commands

You can also select the desired line(s) and press dial keys to access certain answering system functions using the unit during playback.

1 [MENU] (F6) →  → [SELECT]

2 Select the desired line(s) if necessary.

For line 1: [‡][1]

For line 2: [‡][2]

For line 1 and line 2: [‡][0]

3 Press the desired dial keys.

Key	Command
[1] or [◀]	Repeat message (during playback). ^{*1}
[2] or [▶]	Skip message (during playback).
[4]	Play new messages.
[5]	Play all messages.
[9]	Stop playback. ^{*2}
[0]	Turn answering system off.
[*][4] or [CLEAR]	Erase this message (during playback).
[*][5]	Erase all messages.
[‡][1][8]	Turn answering system on for line 1 only.
[‡][2][8]	Turn answering system on for line 2 only.
[‡][0][8]	Turn answering system on for both line 1 and line 2.

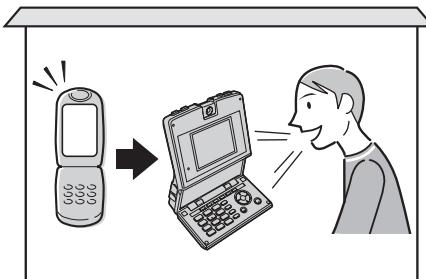
^{*1} If pressed within the first 5 seconds of a message, the previous message is played.

^{*2} To resume operation, press a command key within 15 seconds, or the voice guidance will start.

Note:

- After selecting the line(s), memo messages do not play.

Configuring a cellular phone



If your cellular phone is Bluetooth wireless technology compatible to the home communication system, you can use the unit to make or answer calls using a cellular line.

This feature is useful for maximizing the benefits of cellular services (such as free unlimited nights and weekends, or cellular to cellular calling plans) by utilizing unused peak minutes with your home phone.

To use this feature you must first:

- use the base unit to register your cellular phone.
- use the base unit to turn on discoverable mode.
- use the base unit to connect to the cellular phone.

For more information, see the operating instructions included with your base unit.

Making/answering calls using a cellular line

- Before making or answering calls, confirm that you have connected your cellular phone to the base unit.

Making calls

- 1 Dial the phone number. → **[CELL]**
 - If you registered only one cellular phone, skip to step 4.
- 2 Select the desired cellular phone.
- 3 **[SELECT]**
- 4 When you finish talking, press **[OFF]**.

Answering calls

- 1 Press **[]** or **[CELL]**.
- 2 When you finish talking, press **[OFF]**.

Making calls using the phonebook

- 1 **[MENU]** (F6) → **[]** → **[SELECT]**
- 2 Press **[]** or **[]** to select the desired item.
- 3 **[CALL]** → **[CELL]**
 - If you registered only one cellular phone, skip to step 5.
- 4 Select the desired cellular phone. → **[SELECT]**
- 5 When you finish talking, press **[OFF]**.

Using a Cellular Phone with this Unit

Making a call using a quick dial key

1 [M1] or [M2]

2 [CELL]

- If you registered only one cellular phone, skip to step 4.

3 Select the desired cellular phone. → [SELECT]

4 When you finish talking, press [OFF].

Viewing the caller list and calling back

If you receive a call via cellular line, caller information is logged in the caller list with **C**.

1 [MENU] (F6) →  → [SELECT]

2 Press [**▲**] or [**▼**] to select the desired caller information indicated by **C**.

3 [CELL]

- If you registered only one cellular phone, skip to step 5.

4 Select the desired cellular phone. → [SELECT]

5 When you finish talking, press [OFF].

Note:

- If the cellular line is already being used or you want to select the land line, select the desired line by pressing [LINE1] or [LINE2] instead of [CELL].

Putting a cellular call on hold

Press [HOLD] 2 times during a cellular call.

- To return to the call, press [].

Note:

- If a call is kept on hold for more than 6 minutes, an alarm tone starts to sound. After 4 additional minutes on hold, the call is disconnected.

Using the land line during a cellular call

Holding a cellular call to make or answer a land line call

Example: If you are on a cellular line call

1 To put the cellular call on hold, press [HOLD] 2 times.

2 To make a land line call, dial the phone number, then press [LINE1] or [LINE2].

To answer a land line call, press [LINE1] or [LINE2].

3 When you finish talking, press [OFF] to end the land line call.

4 To return to the cellular call, press [].

Holding a land line call and make or answer a cellular call

Example: If you are on a land line call

1 To put the land line call on hold, press [HOLD] 2 times.

To make a cellular call

- If you have registered only one cellular phone, dial the phone number, then press [CELL].
- If you have registered more than one cellular phone, dial the phone number, then press [CELL]. Select the desired cellular phone, then press [SELECT].

To answer a cellular call

Press [CELL].

3 To return to the land line call, press the line button that is flashing.

- The cellular call ends.

Ringer settings for cellular calls

Important:

- You must register your cellular phone to the base unit before programming.

Ringer volume

You can change the ringer volume heard when a cellular call is received.

1 [MENU] (F6) → Δ → [SELECT]

2 "Ringer for cell" → [SELECT]

3 "Ringer volume" → [SELECT]

4 Select the desired volume. (Default: High) → [SAVE] → [OFF]

Note:

- When the ringer volume is set to off for a cellular line, the unit does not ring for cellular calls.

Ringer tone

You can change the ringer tone heard when a cellular call is received.

1 [MENU] (F6) → Δ → [SELECT]

2 "Ringer for cell" → [SELECT]

3 "Ringer tone" → [SELECT]

4 Select the desired item. (Default: "Tone 3") → [SAVE] → [OFF]

Note:

- If you erase a customized ring for cellular call, "Tone 3" (default) is used instead of that ringer tone.

Transferring a cellular call

Cellular calls can be transferred between this unit and the base unit, and between this unit and another compatible Panasonic unit (KX-THA11/KX-THA12/KX-THA16/KX-THA17).

Transferring a cellular call

1 During a cellular call, press [INTERCOM] to put the call on hold.

2 To page the base unit, press [0].

To page the handset, enter its extension number ([1] to [8]).

- If you do not wish to announce the transfer, skip to step 4.

3 Wait for the paged party to answer.

4 To complete the transfer, press [OFF].

Note:

- If the paged party does not answer within 1 minute after you hang up, your extension rings and the call is returned to your phone. You can speak to the caller again by pressing [\bowtie].
- To transfer a cellular call to the answering system, see page 33.

Answering a transferred cellular call

Press [\bowtie] to answer the page.

- After the paging party hangs up the call, you can take the transferred call.

Note:

- If the paging party hangs up before you answer the page, "Incoming call" is displayed. Press [\bowtie] to take the transferred call.

Conference calls

Conference call with a cellular call and land line call

While you are talking on a cellular call, you can make or answer a 2nd call on the land line, and then combine the calls to establish a conference call.

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

Conference call with a cellular call and an intercom call

While you are talking on a cellular call, one more extension can join the conversation and establish a conference call.

- 1** During a cellular call, press **[INTERCOM]**.
- 2** To page the base unit, press **[0]**.
To page the handset, enter its extension number (**1** to **8**).
- 3** When the paged party answers, press **[CONF]** to make a conference call.
 - To leave the conference, press **[OFF]**. The other 2 parties can continue the conversation.

Note:

- The cellular call can be put on hold by pressing **[HOLD]**. Only the person who placed the call on hold can resume the full conference by pressing **[CONF]**.

Print settings

You can connect the unit to your computer network and print images to your printer. In order to use this feature, you must first configure the following settings, and register the unit for printing by using the MULTI TALK V Printing Utility. For software installation details, refer to the "Installation Guide for MULTI TALK V Software" included with your base unit.

Important:

- Make sure that the base unit is connected to your computer network.

Selecting the IP address mode

Normally you should select "Auto". The unit is automatically assigned a local address. If you need to set an IP address manually, select "Static". The default setting is "Auto".

Important:

- You cannot use a global IP address for the unit.

Automatic setup ("Auto")

- 1 [MENU] (F6) →  → [SELECT]
- 2 "Print settings" → [SELECT]
- 3 "Network settings" → [SELECT]
- 4 "IP address mode" → [SELECT]
- 5 "Auto" → [SAVE] → [OFF]

Setting an IP address manually ("Static")

To assign a specific IP address and subnet mask, select "Static", then enter the IP address and subnet mask you wish to assign to the unit.

- 1 [MENU] (F6) →  → [SELECT]
- 2 "Print settings" → [SELECT]
- 3 "Network settings" → [SELECT]
- 4 "IP address mode" → [SELECT]
- 5 "Static" → [SAVE]
- 6 Enter a valid IP address and subnet mask.

7 [SAVE] → [OFF]

Note:

- If you make a mistake when entering an IP address and subnet mask, press [Δ], [∇], [\leftarrow], or [\rightarrow] to move the cursor, then press [CLEAR]. Enter the correct number.

Setting the TCP port number

The default setting is "8081". Normally you do not need to change the port number setting.

- 1 [MENU] (F6) →  → [SELECT]
- 2 "Print settings" → [SELECT]
- 3 "Network settings" → [SELECT]
- 4 "Set TCP port No." → [SELECT]
- 5 Enter the TCP port number.
- 6 [SAVE] → [OFF]

Connecting to a computer network

Important:

- Make sure that the base unit is connected to your computer network.

1 [MENU] (F6) →  → [SELECT]

2 "Print settings" → [SELECT]

3 "Network connect" → [SELECT]

- The IP address and subnet mask are displayed.

4 Use the MULTI TALK V Printing Utility to register the unit for printing. Refer to "Registering the cordless video camera station to the Printing Utility" in the "Installation Guide for MULTI TALK V Software" included with your base unit.

5 [OFF]

Selecting a computer

Select a computer that is connected to the printer you would like to use for printing. The printer should be set as the default printer for the computer.

Important:

- Make sure that the computer is turned on, and that the base unit is connected to the computer network.

1 [MENU] (F6) →  → [SELECT]

2 "Print settings" → [SELECT]

3 "Select printer" → [SELECT]

4 [CHANGE]

5 Select the desired computer. → [SAVE]

6 [OFF]

Note:

- If you change the computer's network interface (LAN card, wireless network card, USB adaptor, etc.), you must repeat the procedure above before you can print again.

Using "Wake on LAN" (WOL)

When "Wake on LAN" (WOL) is enabled on your computer and this unit, you can remotely start up, or wake up your computer from sleep or standby mode when printing images from this unit. Set the appropriate delay time (wake up time for the computer).

Important:

- Make sure that your computer is WOL compliant. For more information, consult with your computer manufacturer.
- Make sure that you have already selected the computer.

1 [MENU] (F6) →  → [SELECT]

2 "Print settings" → [SELECT]

3 "Select printer" → [SELECT]

4 [OPTION] → [1] ("On") (Default: "off") → [▼]

5 Enter the desired time. (Default: "120 seconds")

- The time between 30 and 999 seconds can be set.

6 [SAVE] → [OFF]

Note:

- To disable WOL on this unit, press [0] ("off") in step 4, then press [SAVE].

Printing images

You can print images while viewing the picture gallery or play list, during a video call, or while using the unit to monitor the room (video monitor).

Important:

- Before printing, make sure that:
 - you have registered the unit using the MULTI TALK V Printing Utility.
 - you have selected the computer properly (page 58).
 - the printer you want to use has been set as the default printer for the computer.
 - you can print to the printer using your computer.
- You can see icons indicating the status of printing data transmission (page 15, 64).
- After printing has finished, confirm that images printed successfully.

Printing images in the picture gallery or play list

- 1 While viewing images, press **[PRINT]**.
- 2 To print the displayed image;
“**Print current**” → **[SELECT]**
To print all images in the folder;
“**Print all**” → **[SELECT]**

Note:

- When you select “**Print all**”, about 12 images are printed per letter-sized page.
- To stop printing, press **[OFF]** while “**Please wait**” is displayed.

Printing images during a video call or while video monitoring (“Auto print”)

During a video call with an outside party (page 28) or while video monitoring (page 36), you can print the displayed image at about 5 second intervals.

- 1 During a video call with an outside party or while video monitoring, press **[MENU]**.
- 2 “**Auto print**” → **[SELECT]**
 - To stop printing;
[MENU] → “**stop print**” → **[SELECT]**

Note:

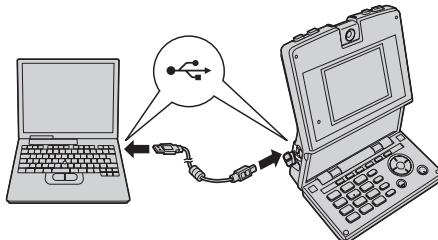
- About 12 images are printed per letter-sized page.
- The date and time of each image is also printed, using the following format: month, day, year, hour, minute, and second.

Example: “051506 222420” = May 15, 2006, 10:24 p.m. and 20 seconds

Connecting the USB cable to the unit

By connecting the USB cable to the USB port, you can use this unit to:

- use MULTI TALK V USB Utility with your computer (page 4).
- access to the Internet with your computer.



System requirements for your computer

The following system requirements must be met in order to use the MULTI TALK V software.

Item	Description
Operating System	Microsoft® Windows® 98SE, Microsoft Windows Me, Microsoft Windows 2000, or Microsoft Windows XP
CPU	For Windows 98SE and Windows Me: Pentium® 166 MHz or faster For Windows 2000: Pentium 200 MHz or faster For Windows XP: Pentium 300 MHz or faster
RAM	For Windows 98SE and Windows Me: 64 MB (128 MB or more recommended) For Windows 2000 and Windows XP: 128 MB
HDD	50 MB available disk space
Resolution	800 x 600 or higher resolution display
Others	USB interface: 1.1 Video adaptor with high color (16 bit) or higher CD-ROM drive 10/100 Mbps network card installed (necessary for LAN interface users) Browser: Internet Explorer 5.0 or later (necessary when monitoring the cordless camera)

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Error messages/icons

Error messages

If the unit detects a problem, one of the following messages is shown on the display.

Display message	Cause & solution
Busy	<ul style="list-style-type: none"> • The called handset or base unit is in use. • Other users are using the line(s). Wait until the line button light or the line status icon goes out. • Privacy mode is on for the call you tried to join (page 34). • The handset or base unit you tried to copy phonebook items to is in use. • The handset you are calling is too far from the base unit. • The handset user is monitoring a room using the cordless camera.
Camera detect	<ul style="list-style-type: none"> • The cordless camera paged the unit, but nobody answered the page. After you monitor the cordless camera, it disappears from the display.
Denied Turn access on at device.	<ul style="list-style-type: none"> • The monitor feature is turned off on the destination handset or base unit and the room cannot be monitored (page 35).
Error!!	<ul style="list-style-type: none"> • The unit's registration or deregistration has failed. Move this unit and the base unit away from the electrical appliances and try again. • The handset or base unit user tried to send phonebook items to you but there was an error. Have the other user re-send the items to you (page 24).
Error!! 8 handsets have already been registered.	<ul style="list-style-type: none"> • 8 handsets have already been registered to the base unit. The deregistered handset number is still retained in the base unit. To register an additional handset, erase the unnecessary handset number using the base unit. For more information, see the operating instructions included with your base unit.
Failed	<ul style="list-style-type: none"> • Video phone feature is not permitted on the other party's unit. • The video connection failed and you will be returned to voice call shortly. Wait until it returns to voice call. • If the "PC camera access" setting on the base unit is set to "On", you cannot use the video phone feature during an intercom call.

Useful Information

Display message	Cause & solution
---Incomplete---	<ul style="list-style-type: none"> The destination unit's phonebook memory is full. Erase unnecessary items from the destination unit's phonebook (page 23). The destination unit is out of area. The destination unit's user may have pressed  or  on the handset or [SP-PHONE] on the base unit.
Invalid	<ul style="list-style-type: none"> There is no handset registered to the base unit matching the extension number you entered. You selected your own extension number.
Invalid. Please register to the base unit	<ul style="list-style-type: none"> The unit is not registered to the base unit. Register the unit (page 17).
Memory full	<ul style="list-style-type: none"> There is no space in memory to record new songs. Erase unnecessary songs (page 44). There is no space in memory to store the new image. Erase unnecessary images from your original data (page 41).
No items stored	<ul style="list-style-type: none"> Your phonebook or redial list is empty. "Customize ring" is empty. "My pictures" is empty.
No link to base. Move closer to base and try again.	<ul style="list-style-type: none"> The unit has lost communication with the base unit. Move closer to the base unit, and try again. Confirm that the base unit's AC adaptor is plugged in. Raise the base unit antennas. The unit's registration may have been canceled. Re-register the unit (page 17).
Phonebook full	<ul style="list-style-type: none"> There is no space to store new items in the phonebook. Erase unnecessary items (page 23).
System is busy. Please try again later.	<ul style="list-style-type: none"> The resources available for wireless communication (making or answering calls with a handset, monitoring camera images from a computer, etc.) are limited. Therefore, depending on the combination of wireless features being conducted at the same time, your desired operation may not be possible. Wait for other users to finish and try again. Another user is listening to messages. Try again later.
Title error	<ul style="list-style-type: none"> The title for the image is not entered or the title you entered is already used for another image. Enter the title for that image only. The title for the customized ring is not entered or the title you entered is already used for another customized ring. Enter the title for that customized ring only.

Display message	Cause & solution
RF connect error	<ul style="list-style-type: none"> The unit has lost communication with the base unit. Move closer to the base unit, and try again. Confirm that the base unit's AC adaptor is plugged in. Raise the base unit antennas. The unit's registration may have been canceled. Register the unit (page 17). The resources available for wireless communication (making or answering calls with a handset, monitoring camera images from a computer, etc.) are limited. Therefore, depending on the combination of wireless features being conducted at the same time, your desired operation may not be possible. Wait for other users to finish and try again.
PC search error	<ul style="list-style-type: none"> Make sure that you have registered the unit using the MULTI TALK V Printer Utility. Refer to the "Installation Guide for MULTI TALK V Software" included with your base unit. Make sure that the computer is turned on.
IP address is wrong	<ul style="list-style-type: none"> Enter a valid IP address (page 57). You cannot use a global IP address.
Subnet mask is wrong	<ul style="list-style-type: none"> Enter a valid subnet mask (page 57).

Printing error icons

If the unit detects a problem when you try to print images, an error icon is displayed.

Error icon	Cause & solution
 1	Radio frequency connect error <ul style="list-style-type: none">• The unit has lost communication with the base unit. Move closer to the base unit, and try again.• Confirm that the base unit's AC adaptor is plugged in.• Raise the base unit antennas.• The unit's registration may have been canceled. Re-register the unit (page 17).• The resources available for wireless communication (making or answering calls with a handset, monitoring camera images from a computer, etc.) are limited. Therefore, depending on the combination of wireless features being conducted at the same time, your desired operation may not be possible. Wait for other users to finish and try again.
 2	PC connect error <ul style="list-style-type: none">• Make sure that you have registered the unit using the MULTI TALK V Printing Utility. Refer to the "Installation Guide for MULTI TALK V Software" included with your base unit.• Make sure that you have selected the computer properly (page 58).• Make sure that the computer is turned on.• If you are using "Wake on LAN" (WOL), confirm that the wake up time is appropriate for your computer. Set a longer time (page 58).• If you change the computer's network interface (LAN card, wireless network card, USB adaptor, etc.), you must select the computer again before you can print again (page 58).
 3	Process error <ul style="list-style-type: none">• Data traffic is heavy. Try again later.

Troubleshooting

General use

Problem	Cause & solution
The unit does not work.	<ul style="list-style-type: none"> Check the connection (page 10). The unit has not been registered to the base unit. Register the unit (page 17). Make sure that the battery is installed correctly and fully charged it (page 10). Press [RESET] on the bottom of the unit using a pointed object such as a pen (page 70).
"Recharge battery" is displayed and I cannot perform the following operations: <ul style="list-style-type: none"> – taking a picture with the unit's built-in camera – erasing images or editing a title while viewing the stored images – taking a picture during a video call or video monitor – recording or erasing a customized ringer – editing a title for a customized ringer – copying MULTI TALK V USB Utility settings (songs, images, phonebook items, programmable settings, etc.) from your computer 	<ul style="list-style-type: none"> The battery power is low. Fully charge the battery (page 11) and try again.

Programmable settings

Problem	Cause & solution
I cannot program items.	<ul style="list-style-type: none"> While another user is listening to messages or the answering system is answering a call, you cannot program. Try again later.
While programming, the unit starts to ring.	<ul style="list-style-type: none"> A call is being received. Answer the call and start again after hanging up.

Useful Information

Making/answering calls, intercom

Problem	Cause & solution
Static is heard, sound cuts in and out. Interference from other electrical units.	<ul style="list-style-type: none">Move this unit and the base unit away from other electrical appliances (microwave, wireless LAN appliances, etc.).Move closer to the base unit.Raise the base unit antennas.Turn on the clarity booster feature (page 20).
The unit does not ring.	<ul style="list-style-type: none">The ringer volume is turned off. Adjust it (page 42, 55).When printing (page 59), the unit does not ring until "Please wait" disappears from the display. To answer a call, press []. The unit stops printing.
I cannot make a call.	<ul style="list-style-type: none">The dialing mode may be set incorrectly. Change the setting (page 49).The base unit (including answering system) or handset is in use. Try again later.
I cannot redial by pressing [REDIAL] .	<ul style="list-style-type: none">If the last number dialed was more than 48 digits long, the number will not be redialed correctly. Dial the number manually.
I cannot have a conversation using the headset.	<ul style="list-style-type: none">Make sure that a Panasonic optional headset is connected properly (page 12).
I cannot make long distance calls.	<ul style="list-style-type: none">Make sure that you have long distance service.
I cannot page the handset or base unit.	<ul style="list-style-type: none">The called handset is too far from the base unit.The called unit is in use. Try again later.
I cannot turn the clarity booster feature on.	<ul style="list-style-type: none">The resources available for wireless communication (making or answering calls with a handset, monitoring camera images from a computer, etc.) are limited. Wait for the other user to end the operation and try again.
The interrupt tones sound while I am on an outside call or on an intercom call or monitoring a room.	<ul style="list-style-type: none">A call is being received. Press [OFF] to end the call or stop monitoring, then answer the call.

Phonebook

Problem	Cause & solution
Copying stopped with an item displayed.	<ul style="list-style-type: none"> The destination handset may have lost communication with the base unit, or the destination unit user may have pressed [◀] or [◀] on the handset or [SP-PHONE] on the base unit. <p>The displayed phonebook item was not copied to the unit. Press [OFF]. Confirm that the destination unit is not in use and try again.</p>

Caller ID

Problem	Cause & solution
The unit does not display the caller's name and/or phone number.	<ul style="list-style-type: none"> You have not subscribed to Caller ID service. Contact your telephone company to subscribe. The name display service may not be available in some areas. Contact your telephone company 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 25). If a call is being transferred to you, the caller information is not displayed. When printing (page 59), the unit does not display caller information until "Please wait" disappears from the display. To view caller information, press [OFF]. The unit stops printing.
The unit does not announce the displayed caller names.	<ul style="list-style-type: none"> The unit's ringer volume is turned off. Adjust it (page 42). The Talking Caller ID feature is turned off. Turn it on (page 48).
The caller list/incoming phone numbers are not edited automatically.	<ul style="list-style-type: none"> The Caller ID number auto edit feature is turned off. Turn it on and try again (page 48). You need to call back the edited number to activate Caller ID number auto edit.
I cannot dial the phone number edited in the caller list.	<ul style="list-style-type: none"> The phone number you dialed might have an incorrect edited pattern (for example, the long distance "1" or the area code is missing). Edit the phone number with another pattern (page 27).

Useful Information

Problem	Cause & solution
The 2nd caller's information is not displayed during an outside call.	<ul style="list-style-type: none">In order to use Caller ID, Call Waiting, or Call Waiting Caller ID (CWID), you must first contact your telephone company and subscribe to the desired service. After subscribing, you may need to contact your telephone company again to activate this specific service, even if you already subscribed to both Caller ID and Call Waiting with Caller ID services (CWID).

Video phone

Problem	Cause & solution
I cannot have a video call.	<ul style="list-style-type: none">Depending on the compatibility of the other party's video phone, you may not be able to have a video call with that person. The other party needs a compatible Panasonic unit (KX-THA12/KX-THA16/KX-THA17) with the base unit (KX-TH102) or ITU-T H.324 compatible device to have a video call. Your unit works with most videophone devices that meet the ITU-T H.324.If the base unit is connected to a VoIP-TA (Voice over Internet Protocol - Telephony Adaptor), you may not be able to have a video call.Video phone feature is not permitted on the other party's unit.Another user is accessing the Internet using a dial up network. Wait until another user to end the operation and try again.Another handset user is on a video call with an outside party. Wait until another handset user to end the call and try again.You cannot have a video call during a cellular call.
The interrupt tone is heard during a video call.	<ul style="list-style-type: none">A call is being received. Press [OFF] to end the 1st call, then answer the 2nd call.

Video monitor

Problem	Cause & solution
The image is faint.	<ul style="list-style-type: none">The camera lens is dirty. Clean it with a soft dry cloth.
The image sent from another compatible Panasonic unit (KX-THA12/KX-THA13/KX-THA16/KX-THA17) is poor.	<ul style="list-style-type: none">Adjust the display sharpness or brightness setting (page 38, 39).The place where the destination unit is located is dark. Improve lighting.

Problem	Cause & solution
The image sent from another compatible Panasonic unit (KX-THA12/KX-THA13/KX-THA16/KX-THA17) is dark and difficult to see.	<ul style="list-style-type: none"> Adjust the display brightness setting (page 39). There is a strong sunlight or a backlight in the place where the destination unit is located. Try shading the camera's location.
I cannot connect to another compatible Panasonic unit (KX-THA12/KX-THA13/KX-THA16/KX-THA17), the image distorts, or the image is slow.	<ul style="list-style-type: none"> The destination unit has lost communications with the base unit. Move the destination unit closer to the base unit, and try again. There is an obstacle such as concrete wall. Move the destination unit to the place without an obstacle. A microwave or wireless LAN appliance is in use. Move the destination unit closer to the base unit or use the destination unit away from those appliances, and try again.
“ Camera detect ” is displayed.	<ul style="list-style-type: none"> When you were paged from the cordless camera, you were not near the unit and could not answer the page. After you monitor the cordless camera which paged you, the indication disappears.

Answering system

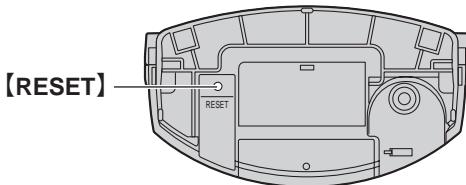
Problem	Cause & solution
I cannot operate the answering system.	<ul style="list-style-type: none"> Another user is operating the answering system. If other users are talking on a conference call, you cannot operate the answering system. Try again later.

Battery recharge

Problem	Cause & solution
I charged the battery fully, but  continues to flash, or  is displayed.	<ul style="list-style-type: none"> The battery may need to be replaced with a new one (page 12).
The display is blank.	<ul style="list-style-type: none"> Confirm that the battery is properly installed. Fully charge the battery (page 11).

RESET button

If the unit does not work, press **[RESET]** on the bottom of the unit using a pointed object such as a pen.



FCC and other information

WHEN PROGRAMMING EMERGENCY NUMBERS AND(OR) MAKING TEST CALLS TO EMERGENCY NUMBERS:

- 1) Remain on the line and briefly explain to the dispatcher the reason for the call.
- 2) Perform such activities in the off-peak hours, such as early morning or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Privacy of communications may not be ensured when using this phone.

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the

user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RF Exposure Warning:

The product complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF exposure requirements, the product must be installed and operated 20 cm (8 inches) or more away from all person's body (excluding extremities of hands, wrist and feet). The product must not be collocated or operated in conjunction with any antenna or transmitter.

Responsible party:

Panasonic Corporation of North America
One Panasonic Way,
Secaucus, New Jersey 07094
Phone number: 1-800-211-PANA (1-800-211-7262)

FCC Warning:

To ensure compliance with FCC emissions limits, use only the included USB cable with the ferrite core when connecting the unit to a computer.

CAUTION:

Installation

- Do not touch the plug with wet hands.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the product and is easily accessible.

Battery

To reduce the risk of fire or injury to persons, read and follow these instructions.

- Use only the battery(ies) specified.
- Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
- Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- Exercise care when handling the battery(ies). Do not allow conductive materials such as rings, bracelets or keys to touch the battery(ies), otherwise a short circuit may cause the battery(ies) and/or the conductive material to overheat and cause burns.
- Charge the battery(ies) provided, or identified for use with the product only, in accordance with the instructions and limitations specified in this manual.

WARNING:

- To prevent the risk of fire or electrical shock, do not expose the product to rain or any type of moisture.
- Unplug the product 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 the Panasonic Call Center at 1-800-211-PANA (1-800-211-7262).

Medical

- Consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The product operates in the frequency range of 2.402 GHz to 2.48 GHz, and the power output is 125 mW (max.).) Do not use the product in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.

Notice

- This product is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
- Cet appareil est conçu pour être utilisé aux États-Unis d'Amérique. La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
- Este producto está diseñado para usarse en los Estados Unidos de América.
La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
- この製品は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては原則として修理などのサービスは致しかねます。

Specifications

Operating environment	5 °C – 40 °C (41 °F – 104 °F)
Frequency	2.402 GHz – 2.48 GHz
Bluetooth compliance	Bluetooth wireless technology 1.2
Dimensions	Approx. height 190 mm x width 141 mm x depth 77 mm (7 ¹⁵ / ₃₂ inches x 5 ⁹ / ₁₆ inches x 3 ¹ / ₃₂ inches)
Mass (Weight)	Approx. 630 g (1.39 lb.)
Power consumption	Standby: Approx. 2.3 W Maximum: Approx. 7.0 W
Power output	125 mW (max.)
Power supply	AC adaptor (120 V AC, 60 Hz) Ni-MH battery (3.6 V, 1,500 mAh)
Built-in camera	Number of pixels 300,000 pixels (1 ¹ / ₅ inch CMOS sensor)
	Illuminance 10 lux (min.)
	Focus Fixed 0.48 m (18 ²⁹ / ₃₂ inches) – Infinity
	Photograph Vertical angle: Approx. 35° Horizontal angle: Approx. 46°
Video system	ITU-T Standard H.324 technology
Image resolution	Image size (QCIF) 176 x 144 pixels
	Image size (QVGA) 320 x 240 pixels
Interface	USB: 1.1

Note:

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

Trademarks

- The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Panasonic is under license.

Customer services

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

<http://www.panasonic.com/consumersupport>

or, contact us via the web at:

<http://www.panasonic.com/contactinfo>

You may also contact us directly at:

1-800-211-PANA (1-800-211-7262),

Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

TTY users (hearing or speech impaired users) can call 1-877-833-8855.

Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

<http://www.pasc.panasonic.com>

or, send your request by E-mail to:

npccparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)

(Monday - Friday 9 am to 8 pm, EST.)

Panasonic Services Company

20421 84th Avenue South, Kent, WA 98032

(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

TTY users (hearing or speech impaired users) can call 1-866-605-1277.

Service in Puerto Rico

Panasonic Puerto Rico, Inc.

San Gabriel Industrial Park, Ave. 65 de Infantería, Km. 9.5,

Carolina, Puerto Rico 00985

Phone (787)750-4300, Fax (787)768-2910

Warranty

**PANASONIC CONSUMER
ELECTRONICS COMPANY, DIVISION
OF PANASONIC CORPORATION OF
NORTH AMERICA**
One Panasonic Way,
Secaucus, New Jersey 07094

PANASONIC PUERTO RICO, INC.
San Gabriel Industrial Park,
Ave. 65 de Infantería, Km. 9.5,
Carolina, Puerto Rico 00985

Panasonic Telephone Products Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Parts

One (1) Year

Labor

One (1) Year

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts. You must mail-in your product prepaid during the Limited Warranty period. This Limited Warranty excludes both parts and labor for batteries, antennas, and cosmetic parts (cabinet). This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new.

Mail-In Service

For assistance in the continental U.S.A. in obtaining repairs please ship the product prepaid to:

Panasonic Services Company Customer Servicenter

4900 George McVay Drive Suite B Door #12 McAllen, TX 78503

For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

For Limited Warranty service for headsets if a headset is included with this product please call Panasonic Call Center at 1-800-211-PANA (1-800-211-7262).

When shipping the unit carefully pack, include all accessories, and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone number where you can be reached.

**IF REPAIR IS NEEDED DURING THE LIMITED WARRANTY PERIOD THE
PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF
OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND
PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR
OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.**

Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY. (As examples, this excludes damages for lost time, lost calls or messages, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Direct command chart/programming index

Important:

- You can program each feature directly by using feature codes.

Press **[MENU]**, **[#]**, then press the desired feature code.

Note:

- When you find “*1” or “*2” in the following table, refer to the corresponding note below.

*1 If you program the following features using one of the units, you do not need to program the same item using another unit.

*2 If you reset the base unit, the marked features are reset to their default settings. To reset the base unit, see its operating instructions.

Telephone

Feature	Feature code	Default setting	Base reset ^{*2}	Page
Appearance (Display color)	[1][8][2]	Color 1	—	45
Auto edit (Caller ID number auto edit)	[2][1][4]	On	●	48
Background music	[1][8][6]	Off	—	47
Caller list	[2][1][3]	—	—	26
Customer support	[6][8][0]	—	—	50
Customize ring	[1][6][6]	—	—	43
Date and time ^{*1}	[1][0][1]	12.31.2006	—	47
Deregistration	[1][3][1]	—	—	17
Display (Display language)	[1][1][0]	English	●	17
Registration	[1][3][0]	—	—	17
Interrupt tone	[2][0][1]	2	●	44
Key tone	[1][6][5]	On	—	48
LCD contrast (Display contrast)	[1][4][5]	Level 5	●	45
Line select	[2][5][0]	Auto	●	48
Memory status	[6][7][0]	—	—	49
Music volume	[1][8][7]	2	—	47
Play list	[1][8][4]	—	—	45
Play pattern	[1][8][3]	Sequential	—	46
Phonebook	[2][8][0]	—	—	21
Ringer tone	[1][6][1]	Line 1: Tone 1 Line 2: Tone 2	●	42

Useful Information

Feature	Feature code	Default setting	Base reset ^{*2}	Page
Ringer volume	[1][6][0]	High	●	42
Set dial mode ^{*1}	[1][2][0]	Tone	●	49
Set flash time ^{*1}	[1][2][1]	700ms	●	49
Set line mode ^{*1}	[1][2][2]	B	●	49
Slide-show speed	[1][8][5]	10 seconds	—	46
Talking CallerID	[1][6][2]	On	—	48
Time adjustment ^{*1}	[2][2][6]	Caller ID[auto]	●	47
Time-out (Length of the slide-show)	[1][8][8]	1 hour	—	46
Voice enhancer	[2][7][0]	Off	—	48
Wallpaper	[1][8][1]	Set picture	—	44

Intercom, monitor, viewer, and cordless camera features

Feature	Feature code	Default setting	Base reset ^{*2}	Page
Audio only (Audio monitor)	[7][2][2]	—	—	35
Camera (Taking a picture)	[6][3][5]	—	—	40
Camera & Audio (Monitoring the room)	[7][2][3]	—	—	36
Device name (Changing the unit's name)	[1][0][4]	LCD unit	—	48
Monitor access	[2][0][2]	Deny	●	35
Viewer (Picture gallery)	[6][7][1]	—	—	41

Video phone features

Feature	Feature code	Default setting	Base reset ^{*2}	Page
Hold options	[6][4][2]	Hold only	—	31
Privacy image	[6][4][3]	—	—	31
Video access	[6][4][1]	Permit	—	31
Video phone mode	[6][4][0]	Live video	—	31

Answering system features

Feature	Feature code	Default setting	Base reset ^{*2}	Page
Message playback	[3][0][0]	—	—	51

Cellular connection

Feature	Feature code	Default setting	Base reset ^{*2}	Page
Ringer tone (For cellular phones)	[6][2][9]	Tone 3	●	55
Ringer volume (For cellular phones)	[6][2][8]	High	●	55

Print settings

Feature	Feature code	Default setting	Base reset ^{*2}	Page
IP address mode	[5][0][0]	Auto	—	57
Network connect	[5][2][3]	—	—	58
Select printer (Selecting a printing PC)	[5][2][4]	—	—	58
Set static IP	[5][0][1]	—	—	57
Set TCP port No.	[5][0][6]	8081	—	57

Index

- A** Answering calls: 19
Answering system
 - Erasing messages: 52
 - Listening to messages: 51Appearance (display color): 45
Audio cable: 43
- B** Battery
 - Charge: 11
 - Installation: 10
 - Performance: 11
 - Replacement: 12
 - Strength: 11Bluetooth wireless technology: 53
Booster (clarity booster): 20
- C** Call share: 34
Call Waiting: 19
Call Waiting Caller ID: 25
Caller ID number auto edit: 27, 48
Caller ID service: 25
Caller list
 - Calling back: 26
 - Editing: 27
 - Erasing: 27
 - Storing: 27
 - Viewing: 26Camera
 - Erasing: 41
 - Taking a picture: 40
 - Viewer (picture gallery): 41Cellular phone
 - Conference: 56
 - Making/answering calls: 53
 - Ringer tone: 55
 - Ringer volume: 55
 - Transferring a call: 55Conference calls: 33
Connections
 - AC adaptor: 10
 - USB cable: 60Customer support: 50
Customize ring: 43
- D** Date and time: 47
Deregistration: 17
Device name: 48
Dialing mode: 49
- E** Direct commands: 77
Display
 - Color: 45
 - Contrast: 45
 - Language: 17Error icons: 64
Error messages: 61
- F** Flash: 19
Flash time: 49
- H** Headset: 12
Hold: 19
Hold options: 31
- I** Intercom: 32
Interrupt tone: 44
- K** Key tone: 48
- L** Line mode: 49
Line selection: 48
- M** Making calls: 18
Memory capacity (message recording): 51
Memory status (images and songs): 49
Missed calls: 26
Monitor
 - Audio monitor: 35
 - Monitor access: 35
 - Video monitor: 36MULTI TALK V: 4
Mute: 19
- P** Pause: 18
Phonebook: 21
Picture ID: 26
Play list: 45
Print settings
 - IP address mode: 57
 - Network connect: 58
 - Select printer: 58
 - Static IP: 57
 - TCP port number: 57
 - WOL (Wake on LAN): 58Printing images: 59
Privacy feature: 34
Privacy image: 31
Pulse service: 20
- Q** Quick dial: 23
- R** Redial list: 18
Registration: 17
RESET button: 70

- Ringer ID: 26
- Ringer off: 19, 42
- Ringer tone: 42
- Ringer volume: 42
- Rotary service: 20
- S** Slide show
 - Background music: 47
 - Play list: 45
 - Play pattern: 46
 - Slide show speed: 46
 - Time-out: 46
 - Turning on/off: 46
- Soft keys: 16
- Specifications: 73
- SP-phone: 18
- T** Talking Caller ID: 25, 48
- Time adjustment: 47
- Tone: 20
- Trademarks: 60, 73
- Transferring a call: 32
- Troubleshooting: 65
- TTY: 5
- Two way (2WAY): 36
- U** USB cable: 60
- V** VE (voice enhancer): 20, 48
 - Video phone
 - Capture: 30
 - Hold options: 31
 - Making/answering calls: 28
 - Pause video: 30
 - Privacy image: 31
 - Video access: 31
 - Video phone mode: 31
 - Volume
 - Ringer: 42
 - Speaker: 18
- W** Wallpaper: 44
- Warranty: 75
- When: 36
- WOL (Wake on LAN): 58

Notes

Notes

If you need assistance with setup or operation

- 1** Visit our website: <http://www.panasonic.com/phonehelp>
- 2** Contact us via the web at: <http://www.panasonic.com/contactinfo>
- 3** Call us at: 1-800-211-PANA (1-800-211-7262)
TTY users (hearing or speech impaired users) can call 1-877-833-8855.

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.
- Send the unit to Panasonic Services Company Customer Servicenter, prepaid and adequately insured.
- Do not send your unit to Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

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

Serial No. _____ Date of purchase _____
(found in the battery compartment)

Name and address of dealer _____

Attach your purchase receipt here.

**Panasonic Consumer Electronics Company,
Division of Panasonic Corporation of North America**
One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Puerto Rico, Inc.
San Gabriel Industrial Park, Ave. 65 de Infantería, Km. 9.5,
Carolina, Puerto Rico 00985

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