

Panasonic®

Operating Instructions

2.4 GHz Cordless Phone

Model No. **KX-TG2120**

2.4 GHz Cordless Phone with Two Handsets

Model No. **KX-TG2122**



Model shown is KX-TG2120

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

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

Charge the handset battery for 12 hours before initial use.

Place each handset on the base unit once before initial use to activate all handsets.

For assistance, visit our website: <http://www.panasonic.com/phonehelp> for customers in the U.S.A. or Puerto Rico.

1 Introduction

Thank you for purchasing a Panasonic cordless telephone.

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

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

2 Accessories information

Included accessories

No.	Accessory item	Order number	Quantity			
			KX-TG2120B	KX-TG2120W	KX-TG2122B	KX-TG2122W
①	AC adaptor	PQWATG2120M	1	1	1	1
②	Telephone line cord	PQJA10075SZ	1	1	1	1
③	Battery	P-P504 or HHR-P501	1	1	2	2
④	Handset cover	PQYNTG2120W	-	1	-	2
⑤	Charger	PQYNTG2120B	1	-	2	-
		PQWETGA211W	-	-	-	2
		PQWETGA211B	-	-	2	-



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 Servicecenter, prepaid and adequately insured.
- Do not send your unit to Panasonic Consumer Electronics Company listed on the back cover or to executive or regional sales offices. These locations do not repair consumer products.

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 Infantele, Km. 9.5,
Carolina, Puerto Rico 00985

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Additional/replacement accessories

Accessory item	Order number
Rechargeable nickel metal hydride (Ni-MH) battery	P-P504
Headset	KX-TCA60, KX-TCA86, KX-TCA88HA, KX-TCA91, KX-TCA92, or KX-TCA98.
T-adaptor	KX-J66
Battery back-up power supply	KX-TCA200

Sales and support information

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

3 Important Safety Instructions

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

- Read all instructions carefully.
- Follow all warnings and instructions marked on the product.
- Unplug the product from power outlets before cleaning. Do not use liquid or aerosol cleaners. Use a moist cloth for cleaning.
- Do not use the product near water, for example near a bathtub, wash bowl, kitchen sink, etc.
- Place the product securely on a stable surface. Serious damage and/or injury may result if the product falls.
- Do not cover slots and openings on the product. They are provided for ventilation and protection against overheating. Never place the product near radiators, or in a place where proper ventilation is not provided.
- Use only the power source marked on the product. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- Do not place objects on the power cord. Install the product where no one can step or trip on the cord.
- Do not overload power outlets and extension cords. This can result in the risk of fire or electric shock.
- Never push any objects through slots in the product. This may result in the risk of fire or electric shock. Never spill any liquid on the product.
- To reduce the risk of electric shock, do not disassemble the product. Take the product to an authorized service center when service is required. Opening or removing covers may expose you to dangerous voltages or other risks.
- Incorrect reassembly can cause electric shock when the product is subsequently used.
- Unplug the product from power outlets and take to an authorized service center when the following conditions occur:

- When the power cord is damaged or frayed.
- If liquid has been spilled into the product.
- If the product has been exposed to rain or water.
- If the product does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized service center.
- If the product has been dropped or physically damaged.
- If the product exhibits a distinct change in performance.
- During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
- Do not use the product to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION

Installation

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

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

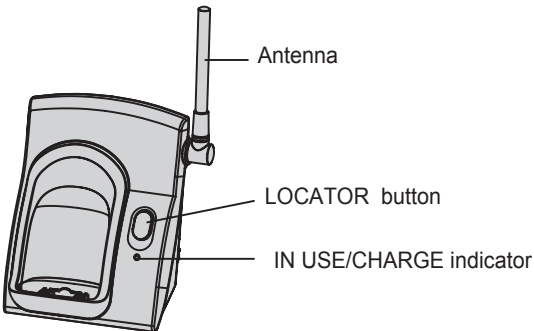
Routine care

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

Preparation

5 Location of controls

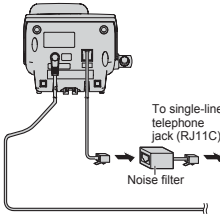
– Base unit



If you subscribe to a DSL service

Please attach a noise filter (contact your DSL provider) to the telephone line between the base unit and the telephone line jack in the event of the following:

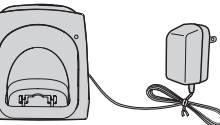
- Noise is heard during conversations.
- Caller ID features do not function properly.



7 Setting up the handset

Connecting the charger

Available model:
KX-TG2122

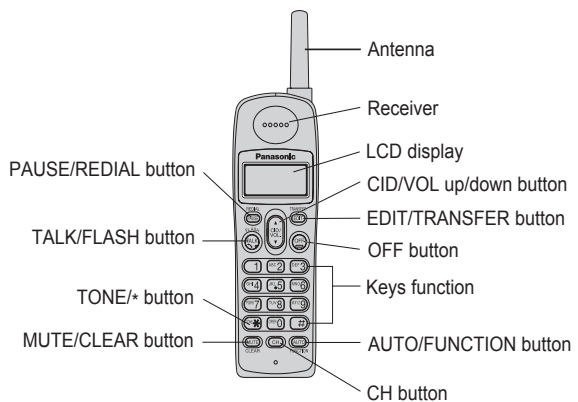


Battery installation/replacement

- Insert the battery plug into the connector as shown in the picture.
- Be sure wires are free from being pressed by the battery body or handset cover.
- If necessary, remove the old battery.

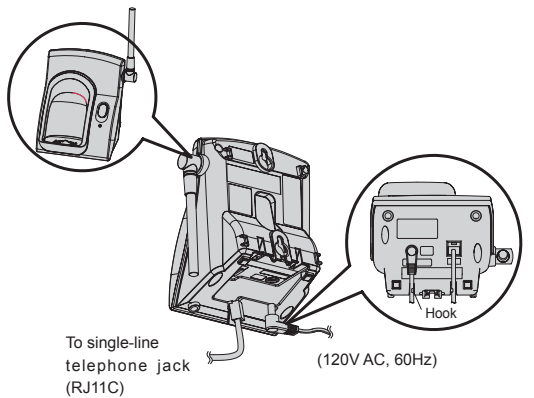


– Handset unit



6 Setting up the base unit

Connecting the AC adaptor and telephone line cord.



A nickel cadmium battery that is recyclable powers the product you have purchased. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call **1-800-822-8BATTERY (1-800-822-8837)** for information on how to recycle this battery.

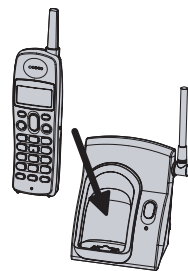


Battery charge

Place the handset on the base unit or charger for about **12 hours** before initial use. The CHARGE indicator lights.

– Base unit

– Charge (KX-TG2122 only)



- To ensure that the battery charges properly, clean the charge contacts of the handset, base unit, and charger with a soft, dry cloth once a month. Clean more often if the unit is subject to the exposure of grease, dust, or high humidity.

Note:

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

Panasonic battery performance

Operation	Operating time
While in use (talking)	Up to 5 hours
While not in use (standby)	Up to 5 days

Note:

- Battery operating time may be shortened over time depending on usage conditions and surrounding temperature.
- Battery power is consumed whenever the handset is off the base unit, even when the handset is not in use. Hence the longer you leave the handset off the base unit, the less time you may actually talk using the handset.
- If the battery is fully charged, you do not have to place the handset on the base or charger until "100%". This will maximize the battery life.

8 Programmable settings

You can customize the unit by programming the following features using the handset.

Display language

You can select English, Spanish or French as the display language. The default setting is "ENGLISH".

- Press **[FUNCTION]** 2 times, until **"LANGUAGE"** is displayed.
- Select **"ENG"**, **"ESP"** or **"FRA"** by using **[▼]** or **[▲]**.
- Press **[EDIT]**, then press **[OFF]**.

Area code

We recommend storing your area code before using Caller ID. Calls from the same area will be recorded in the caller list without the area code. You do not have to remove it before calling back the caller or storing in the phonebook.

- Press **[FUNCTION]** 3 times, until **"AREA CODE"** is displayed.
- Enter your area code (max. 3 digits).
- Press **[EDIT]**, then press **[OFF]**.

Ringer tone

You can change the ringer tone heard when an outside call is received. There are 3 ringer tones. The default setting is "RINGER TONE 1".

- Press **[FUNCTION]** 4 times, until **"RINGER TONE"** is displayed.
- Select the desired ringer tone by using **[▼]** or **[▲]**.
- Press **[EDIT]**, then press **[OFF]**.

Ringer on/off

You can turn the ringer on/off. The default setting is "ON".

- Press **[FUNCTION]** 5 times, until **"RINGER"** is displayed.
- Select **"ON"** or **"OFF"** by using **[▼]** or **[▲]**.
- Press **[EDIT]**, then press **[OFF]**.
- When the ringer volume is set to off, the handset does not ring for outside calls.

- If additional dialing is necessary after using speeding dialing functions such as phonebook dialing or REDIAL, wait until speed dialing is finished to continue further dialing. Otherwise, the unit may not dial properly.

If noise interferes with the conversation

Press **[CH]** to select a clearer channel in the talk mode or move closer to the base unit.

To redial after confirming the last number dialed

Press **[REDIAL]**, then press **[↵]**.

To select the receiver volume

Press **VOL**, **[▼]** or **[▲]** repeatedly while talking.

To mute your conversation

Press **[MUTE]**, while talking.

- The other party cannot hear you but you can hear them.
- To return to the conversation, Press **[MUTE]**.

Redial

Press **[REDIAL]** to quickly dial the last number you called (max. 32 digits). If you get a busy signal, and want to keep dialing the number, press **[REDIAL]** to dial the number again.

10 Answering calls

When a call is received, the unit rings.

- Lift the handset and press **[↵]**.
- You can also answer a call by pressing any button except **[OFF]** (**Any key talk feature**).
- When you finish talking, press **[OFF]** or place the handset on the base unit or charger.

11 Call transfer

During an external call, you may transfer the external call to another handset.

1 Ex. Handset 1:

Press **[TRANSFER]** on the originating handset.

- "TRANSFERRING" shows in the display. Both handsets are paged.

2 Ex. Handset 2:

Press **[TRANSFER]** on the receiving handset to answer the call.

- To cancel the call transfer, you may press **[OFF]**, **[TRANSFER]** or **[↵]** on the originating handset.

Caller ID service

12 Caller ID service

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

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 40 different callers is logged in the caller list 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.
 - "ERROR": The Caller ID information is interfered with during reception.
- If the unit is connected to a PBX system, caller information may not be received properly. Consult your PBX supplier.
- The name display service may not be available in some areas. For further information, please contact your telephone company.

Missed calls

If a call is not answered, the unit treats the call as a missed call.

For example, 10 number of missed calls: **"NEW CALL 10"** is displayed on the handset display. This lets you know if you should view the caller list to see who called while you were out.

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

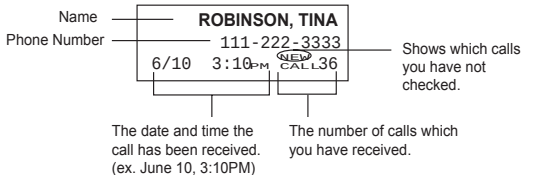
Making/Answering calls

9 Making calls

- Lift the handset and dial the phone number.
- To correct a digit, press **[CLEAR]**.
- Press **[↵]**.
- When you finish talking, press **[OFF]** or place the handset on the base unit or charger.
- If an alarm tone sounds in step 2, move closer to the base unit or place the handset on the base unit, and try again.

13 Caller list

What the display means



Viewing the caller list and calling back

- Press [↵] or [↵] to enter the caller list.
- Press [↵] to search from the most recent call, or [↵] to search from the oldest call.
- Press [↵].
 - If the caller list is empty, you cannot enter the caller list by pressing [↵] or [↵].
 - Once new calls have been checked, "NEW" is not displayed.

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".

- Press [↵] or [↵] to enter the caller list.
- Select the desired item by using [↵] or [↵].
- Press [EDIT] repeatedly until the phone number is shown in the desired format.
 - Local phone number
Example: [321-5555]
 - Area code - Local phone number
Example: [55-321-5555]
 - 1 - Area code - Local phone number
Example: [1-555-321-5555]
- Press [↵].

Note:

- The number edited in the step 3 is not maintained in the caller list.

Storing caller information into the handset phonebook

- Press [↵] or [↵] to enter the caller list.
- Select the desired item by using [↵] or [↵].
 - To edit the number, press [EDIT] repeatedly until the phone number is shown in the desired format.
- Press [FUNCTION].
- Press a memory station number [0] to [9].
 - The memory station number [1] shows "01", [0] shows "10" on the display.

Erasing selected caller information

- Press [↵] or [↵] to enter the caller list.
- Select the desired item by using [↵] or [↵].
- Press [CLEAR], then press [OFF].

Erasing all caller information

- Press [↵] or [↵] to enter the caller list.
- Press and hold [CLEAR] until "CLEAR ALL CID ?" is displayed.
- Press [CLEAR].

Phonebook

14 Handset phonebook

Storing names and numbers

You can add up to 10 items to the handset phonebook and search for phonebook items by name.

- Press [FUNCTION].
- Press a memory station number [0] to [9].
 - If an item is already stored, that information is displayed.
- Press [EDIT].
- Enter the name (max. 15 characters), using the dialing buttons [1] to [9], [↵] or [↵].
 - If a name is not required, press [EDIT] and go to step 6.
- Press [EDIT].

- Enter the phone number (max. 24 digits), using the dialing buttons [1] to [9], [↵] or [↵].
 - If a pause is required for dialing, [PAUSE] can be stored in a phone number counting as one digit.
 - When you store the last number dialed, press [REDIAL] instead of entering a phone number.
- Press [EDIT].

Character table

Key	Character			
[1]	Space	-	*	!
[2]	A	B	C	(
[3]	D	E	F	)
[4]	G	H	I	*
[5]	J	K	L	*
[6]	M	N	O	:
[7]	P	Q	R	S
[8]	T	U	V	?
[9]	W	X	Y	Z
[↵]	To move the cursor to the left			
[↵]	To move the cursor to the right			

- 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. Each time you press [CLEAR], a character under the cursor is erased.

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

Finding and calling a handset phonebook item

- Press [FUNCTION].
- Press [↵] or [↵].
 - The first item or last item is displayed.
- Press [↵] to scroll from the memory station "01", or [↵] to scroll from memory station "10".
 - You can also find the items using the memory station numbers [0] to [9] directly.
 - The memory station number [1] shows "01", [0] shows "10" on the display.
- Press [↵].

Note:

- If "EMPTY" is displayed in step 2, the phonebook is empty.
- If the phone number is more than 12 digits, the whole number has not been shown. The remaining numbers are displayed alternately.

Editing items in the handset phonebook

- Press [FUNCTION].
- Select the desired item by using [↵] or [↵].
 - You can also find the items using the memory station numbers [0] to [9] directly.
- Press [EDIT].
- Edit the name using the dial key, [↵] or [↵] (max. 15 characters).
- Press [EDIT].
- Edit the phone number using the dial key, [↵] or [↵] (max. 32 digits).
- Press [EDIT].

Erasing an item in the handset phonebook

- Press [FUNCTION].
- Select the desired item by using [↵] or [↵].
 - You can also find the items using the memory station number [0] to [9] directly.
- Press [CLEAR].

Erasing all item in the handset phonebook

- Press [FUNCTION].
- Review phonebook items by using [↵] or [↵].
- Press and hold [CLEAR] until "CLEAR ALL ?" is displayed.
- Press [CLEAR].

Special features

15 Special features

Automatic security code setting

Each time you place the handset on the base unit, the unit automatically selects one of more than 65,000 security codes. These codes help prevent the unauthorized use of your telephone line by another cordless telephone user.

Handset locator

You can locate the handset or page the handset user with beep tones from the base unit.

1 Base unit:

Press [LOCAOTR].

- The IN USE indicator flashes. The handset beeps for 1 minute and "PAGING" is displayed on the handset.

2 Base unit:

To stop paging, press [LOCAOTR] again.

Handset:

To stop paging, press [OFF].

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.

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:

- Press [9], then press [PAUSE], then dial the phone number.

- Press [↵].

Note:

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

For Call Waiting service users

To use Call Waiting, you must subscribe to Call Waiting service of your telephone service provider. This feature allows you to receive calls while you are already talking on the phone. If you receive a call while on the phone, you will hear a Call Waiting tone. Please contact your telephone service provider for details and availability of this service in your area. Press [FLASH] to answer the 2nd call after the tone.

- To switch between calls, press [FLASH].

Useful information

16 Optional Headset

Plugging an optional headset into the handset allows a hands-free phone conversation.

Connecting an optional headset to the handset

Open the handset jack cover, and connect an optional headset to the handset jack.

Please use only a Panasonic headset.

- When an optional headset is connected to the handset, make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

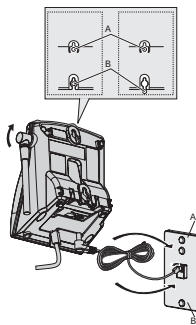
17 Wall mounting

Base unit

Connect the telephone line cord. Mount the unit by inserting the mounting pins into the round openings on the adaptor (for pin B, use round cut out at the bottom of the adaptor if you are using the 4 inches phone plate), then sliding the unit down to secure it.

Connect the AC adaptor to power outlet.

- There are two common types of wall phone plates. The distance between **A** and **B** may vary depending on the size of the wall phone plate installed.



18 Troubleshooting

Problem	Cause and Remedy
The unit does not work.	- Check the settings. - Charge the battery fully. - Clean the charge contacts and charge again. - Install the battery properly. - When power failure occurs or you reconnect the AC adaptor, you must place each handset on the base unit once to reactivate them. - Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, and try again.
An alarm tone sounds.	- You are too far from the base unit. Move closer and try again. - Place the handset on the base unit and try again. - Plug in the AC adaptor. - Raise the base unit antenna.
Static, sound cuts in/out, fades. Interference from other electrical units.	- Locate the handset and the base unit away from other electrical appliances. - Move closer to the base unit. - Raise the base unit antenna. - Press [CH] to select a clearer channel in the talk mode.
The handset does not ring.	- The ringer volume is set to [OFF]. Set to [ON]. - If a power failure occurs, the handset loses communication with the base. When power returns, place the handset on the base unit once then try again.
The handset display is blank.	- Install the battery properly. - Charge the battery fully.
You cannot program items, such as the dialing mode.	- Programming is not possible while the unit is in the talk mode or when viewing the Caller List/ phonebook. - Do not pause for over 60 seconds while programming. - Move closer to the base unit. [↵] or [↵] may have been pressed when you picked up the handset. Press [OFF] and try again.

Problem	Cause and Remedy
You cannot redial by pressing [REDIAL].	- When pressing [REDIAL] after [↵], more than 32 digits long number will not be redialed correctly. - When pressing [↵] after [REDIAL], more than 24 digits long number will not be redialed correctly.
"RECHARGE" and "XX" are displayed or the handset beeps intermittently.	Charge the battery fully.
While talking, the call is disconnected.	The battery needs to be recharged. Charge the battery fully.
You charged the battery fully, but "RECHARGE" and "XX" are still displayed.	- Clean the charge contacts and charge again. - Install a new battery.
The IN USE/CHARGE indicator light does not go out while charging.	This is normal.
You cannot have a conversation using the handset.	When an optional headset is connected, you must use the headset to talk with the caller. To have a normal cordless phone conversation, disconnect the headset.
You cannot have a conversation using the headset.	Make sure that an optional headset is connected properly.

19 FCC and other information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:AAEQ#TXXXX. If requested, this number must be provided to the telephone company.

- Registration No. ----- (found on the bottom of the unit)
- Ringer Equivalence No. (REN) ----- 0.0B

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with the product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for the product is part of the product identifier that has the format US:AAEQ#TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact a Factory Servicenter or other Authorized Service. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

This equipment is hearing aid compatible as defined by the FCC in 47 CFR Section 68.316.

When you hold the phone to your ear, noise might be heard in your Hearing Aid. Some Hearing Aids are not adequately shielded from external RF (radio frequency) energy. If noise occurs, use an optional headset accessory or the speakerphone option (if applicable) when using this phone. Consult with your audiologist or Hearing Aid manufacturer about the availability of Hearing Aids which provide adequate shielding to RF energy commonly emitted by digital devices.

WHEN PROGRAMMING EMERGENCY NUMBERS AND/OR MAKING TEST CALLS TO EMERGENCY NUMBERS:

- Remain on the line and briefly explain to the dispatcher the reason for the call.
- 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.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference.

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 base unit must be installed and operated with its antenna located 20 cm (8 inches) or more between antenna and all person's body (excluding extremities of hands, wrist and feet). The handset may be carried and operated with only the optional specific belt-clip. Other nontested belt-clips or similar body-worn accessories may not comply and must be avoided. The product must not be collocated or operated in conjunction with any other antenna or transmitter.

- 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.
- 本装置は米国専用機器であり、若くは他国で販売使用、可能場合違反地法例。
- 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。

20 Specifications

General

Operating Environment	5°C - 40°C (41°F - 104°F)
Frequency	2.4 GHz - 2.4835 GHz

Base unit

Dimensions	Approx. height 121.8mm x width 109mm x depth 106mm (4 ¹³ / ₁₆ inches x 4 ⁹ / ₃₂ inches x 4 ³ / ₁₆ inches)
Mass (Weight)	Approx. 203g (0.4466lb.)
Power consumption	Standby: Approx. 4.0 W Maximum: Approx. 5.0 W
Base RF Power output	94dBuV/m (max.)
Power supply	AC adaptor (120 V 60 Hz)

Handset

Dimensions	Approx. height 220 mm x width 50.6mm x depth 40.2mm (8 ²¹ / ₃₂ inches x 2 inches x 1 ¹⁹ / ₃₂ inches)
Mass (Weight)	Approx. 214g (0.4708lb.) with battery
Handset RF Power output	94dBuV/m (max.)
Power supply	Ni-Cd battery (3.6 V AC, 600 mAh)

Charger*

Dimensions	Approx. height 70.4mm x width 83.3mm x depth 91.4mm (2 ²⁵ / ₃₂ inches x 3 ⁹ / ₃₂ inches x 3 ¹⁹ / ₃₂ inches)
Mass (Weight)	Approx. 203g (0.4466lb.) with AC adaptor
Power consumption	Standby: Approx. 2.2 W Maximum: Approx. 3.3 W
Power supply	AC adaptor (120 V 60 Hz)

* For KX-TG2122 only

Note:

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

21 If you need assistance with setup or operation

- Visit our website: <http://www.panasonic.com/phonehelp>
- Contact us via the web at: <http://www.panasonic.com/contactinfo>
- Call us at: 1-800-211-PANA (1-800-211-7262) or 1-800-833-9626
TTY users (hearing or speech impaired users) can call 1-877-833-8855.