

Panasonic[®]**Range Extender**
Model No. **KX-TGA407**

Installation Guide

By installing this unit, you can extend the range of your phone system to include areas where reception was previously not available.
The unit extends the range in all directions, allowing several floors to be covered.

Important:

- This unit is an accessory unit for use with a Panasonic Digital Cordless phone.
For more details, visit our Web site:
<http://shop.panasonic.com/support>
- You must register this unit with your base unit before it can be used.
- For assistance, visit our Web site:
<http://shop.panasonic.com/support> for customers in the U.S.A.

Accessory information

Supplied accessories

Accessory item/Part number	Quantity
AC adaptor/PNLV226-0X	1

For best performance

Placement

- Install the unit within base unit range in an indoor environment. We recommend installing the unit in a raised position (such as on a wall).
- Avoid positioning the unit close to objects that will interfere with reception, such as thick walls, radiators, metal shelving, etc.
- For maximum distance noise-free operation, place the unit away from electrical appliances such as TV, radio, personal computer, or other telephone equipment.

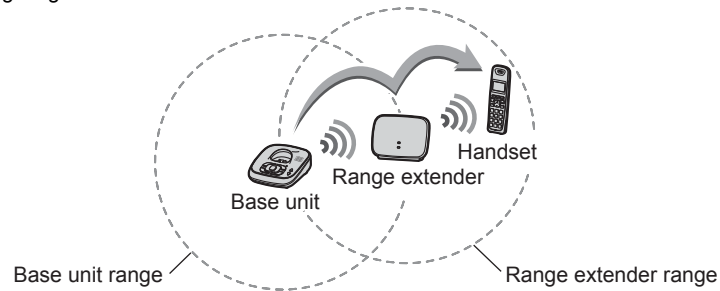


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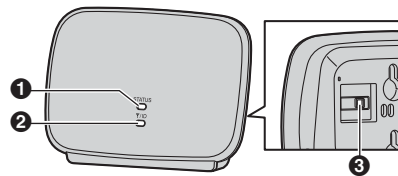
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- Keep an appropriate distance from the base unit to maximize the range of your phone system. Find the appropriate location by checking the ∇ indicator. If the ∇ indicator lights red or amber, re-position this unit in a place where the ∇ indicator lights green.



Controls



- ❶ STATUS indicator
- ❷ ∇ indicator
- ID indicator
- ❸ [PROGRAM]

Understanding the STATUS indicator and ∇ indicator

Indicators		Meaning
STATUS	∇ / ID	
Amber On	Off	Unregistered.
Green On	Green On	Within base unit range. The unit is ready for use. (Signal strength is strong)
	Amber On	Within base unit range. The unit is ready for use. (Signal strength is weak)
Red On	Red Flashing	Out of base unit range.
Green Flashing	Green On	1 handset is communicating with the base unit through this unit. (Signal strength is strong)
	Amber On	1 handset is communicating with the base unit through this unit. (Signal strength is weak)
	Off	The unit is in registration mode.
Green Flashing Rapidly	Green On	2 handsets are communicating with the base unit through this unit. (Signal strength is strong)
	Amber On	2 handsets are communicating with the base unit through this unit. (Signal strength is weak)

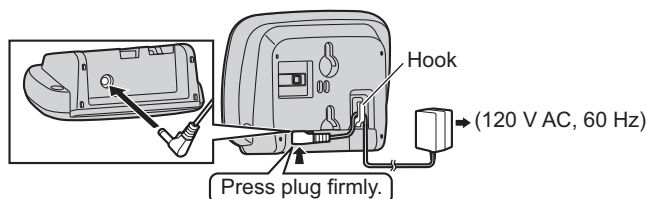
Indicators		Meaning
STATUS	Y / ID	
Red Flashing	Off	Entering deregistration mode. (0-10 seconds ^{*1})
Red On	Off	Deregistration complete. (after 10 seconds ^{*1})
Off	Off	The power is off.

^{*1} The time elapsed after turning on the range extender while pressing and holding down **[PROGRAM]**.

Installation/Registering the range extender to the base unit

1 Range extender: Connect the AC adaptor to a power outlet.

- Use only the supplied Panasonic AC adaptor PNLV226.
- When the unit is turned on, the STATUS indicator and Y indicator light amber for about 2 seconds.
- If the range extender is not yet registered, the STATUS indicator lights amber. If the range extender is already registered, the STATUS indicator lights red while the Y indicator flashing red.



2 Base unit: Press and hold **[LOCATOR]** for about 5 seconds.

- Depending on the base unit, a registration tone sounds.
- If all registered handsets start ringing, press the same button to stop. Then repeat this step.
- The next step must be completed within 90 seconds.

3 Range extender: Press and hold **[PROGRAM]** for about 3 seconds to enter the registration mode.

- When the unit is in the registration mode, the STATUS indicator flashing green.

4 Range extender: Release **[PROGRAM]**

- The STATUS indicator continue flashing green while registering.
- After registration complete, STATUS indicator and Y indicator light amber for 2 seconds. Then, the STATUS indicator lights red while the Y indicator flashing red before registration complete.

5 Range extender: Confirm that the STATUS indicator and Y indicator light green. (The unit is ready for use.)

- If the indicators do not light green, re-position the unit in a place where the indicators light green.

6 Base unit: To exit registration mode, press [LOCATOR].

- Depending on the base unit, it will automatically return to standby after registration completed.

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 horizontally oriented AC outlet that faces the floor, such as an AC outlet installed on a ceiling or under a table, as the weight of the adaptor may cause it to become disconnected.
- The unit can support a maximum of 2 handsets at a time.
- Up to 2 range extenders can be registered to the base unit.

Deregistering the range extender from the base unit

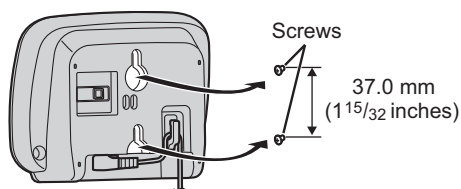
- Unplug the AC adaptor from power outlet, then press and hold [PROGRAM].
- While pressing and holding [PROGRAM], re-connect the AC adaptor.
 - When the unit is in the deregistration mode, the STATUS indicator flashing red.
- Keep pressing and holding [PROGRAM] for about 10 seconds until the STATUS indicator light red. Then release [PROGRAM].
 - After deregistration complete, STATUS indicator and ∇ indicator light amber for 2 seconds. Then, ∇ indicator lights off.

Wall Mounting

Drive the screws (not supplied) into the wall. Mount the unit, then slide it down.

Note:

- Make sure that the wall is strong enough to support the weight of the unit.



Troubleshooting

Problem	Cause/solution
The unit does not work.	- When the indicators do not light, the AC adaptor is not connected properly. Check the connections. - When the indicators do not light green, move the unit closer to the base unit. - Registration may have been canceled. Re-register the range extender: Perform from step 2, "Installation/Registering the range extender to the base unit", page 3.
While talking using the handset, sound cuts in and out.	The handset is out of range. Move the handset closer to this unit.
The STATUS indicator continues to flash green for a while.	[PROGRAM] was pressed. The unit is in programming mode. To exit, press [PROGRAM] again. Do not press [PROGRAM], except when registering or deregistering the unit.

For your safety

To prevent severe injury and loss of life/property, read this section carefully before using the product to ensure proper and safe operation of your product.

WARNING

Power connection

- Use only the power source marked on the product.
- Do not overload power outlets and extension cords. This can result in the risk of fire or electric shock.
- Completely insert the AC adaptor/power plug into the power outlet. Failure to do so may cause electric shock and/or excessive heat resulting in a fire.
- Regularly remove any dust, etc. from the AC adaptor/power plug by pulling it from the power outlet, then wiping with a dry cloth. Accumulated dust may cause an insulation defect from moisture, etc. resulting in a fire.
- 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 emitting and contact us at <http://shop.panasonic.com/support>
- Unplug from power outlets and never touch the inside of the product if its casing has been broken open.
- Never touch the plug with wet hands. Danger of electric shock exists.

Installation

- To prevent the risk of fire or electrical shock, do not expose the product to rain or any type of moisture.
- Do not place or use this product near automatically controlled devices such as automatic doors and fire alarms. Radio waves emitted from this product may cause such devices to malfunction resulting in an accident.
- Do not allow the AC adaptor to be excessively pulled, bent or placed under heavy objects.

Operating safeguards

- Unplug the product from power outlets before cleaning. Do not use liquid or aerosol cleaners.
- Do not disassemble the product.

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 1.92 GHz to 1.93 GHz, and the RF transmission power is 115 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 energy.

⚠ CAUTION

Installation and location

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

Important safety instructions

When using your product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Do not use this product near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool.
2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.
4. Use only the power cord indicated in this manual.

SAVE THESE INSTRUCTIONS

For best performance

Range extender location/avoiding noise

The range extender and other compatible Panasonic units use radio waves to communicate with each other.

- For maximum coverage and noise-free communications, place your range extender:
 - at a convenient, high, and central location with no obstructions between the handset and range extender in an indoor environment.
 - away from electronic appliances such as TVs, radios, personal computers, wireless devices, or other phones.
 - facing away from radio frequency transmitters, such as external antennas of mobile phone cell stations. (Avoid putting the range extender on a bay window or near a window.)
- Coverage and voice quality depends on the local environmental conditions.
- If the reception for a range extender location is not satisfactory, move the range extender to another location for better reception.

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 heating devices, cooking appliances, etc. It should not be placed in rooms where the temperature is less than 0 °C (32 °F) or greater than 40 °C (104 °F). 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 the product near 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.

Other information

Notice for product disposal, transfer, or return

- This product can store your private/confidential information. To protect your privacy/confidentiality, we recommend that you erase information such as phonebook or caller list entries from the memory before you dispose of, transfer, or return the product.

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.
- 本產品專為美國使用而設。若在其他國家銷售或使用，可能會違反當地法例。
- 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。

Specifications

- **Standard:** DECT 6.0 (Digital Enhanced Cordless Telecommunications 6.0)
- **Frequency range:** 1.92 GHz to 1.93 GHz
- **RF transmission power:** 115 mW (max.)
- **Power source:** 120 V AC, 60 Hz
- **Power consumption:** Standby: 1.2 W, Maximum: 2.0 W
- **Operating conditions:**
0 °C – 40 °C (32 °F – 104 °F), 20 % – 80 % relative air humidity (dry)

Note:

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

FCC and other information

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.

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 range extender should not be placed near or on top of a TV or VCR. If interference is experienced, move the range extender and cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference.

FCC RF Exposure Warning:

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

Notice

- FCC ID can be found on the back of the unit.

Graphical symbols for use on equipment and their descriptions

Symbol	Explanation	Symbol	Explanation
	Alternating current (A.C.)		Class II equipment (equipment in which protection against electric shock relies on Double Insulation or Reinforced Insulation)
	Direct current (D.C.)		"ON" (power)
	Protective earth		"OFF" (power)
	Protective bonding earth		Stand-by (power)
	Functional earth		"ON"/"OFF" (power; push-push)
	For indoor use only		Caution, risk of electric shock

Customer services

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For the hearing or speech impaired TTY: 1- 877-833-8855

As of June 2015

Limited Warranty (ONLY FOR U.S.A)

Panasonic Products Limited Warranty

Limited Warranty Coverage (For USA Only)

If your product does not work properly because of a defect in materials or workmanship, Panasonic Corporation of North America (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 ("warranty period"), at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by the warrantor.

Product or Part Name	Parts	Labor
Telephone	One (1) Year	One (1) Year

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. This Limited Warranty excludes both parts and labor for non-rechargeable batteries, antennas, and cosmetic parts (cabinet). This warranty only applies to products purchased and serviced in the United States. This warranty is extended only to the original purchaser of a new product which was not sold "as is".

Mail-In Service--Online Repair Request

Online Repair Request

To submit a new repair request and for quick repair status visit our Web Site at <http://shop.panasonic.com/support>

When shipping the unit, carefully pack, include all supplied accessories listed in the Owner's Manual, and send it prepaid, adequately insured and packed well in a carton box. When shipping Lithium Ion batteries please visit our Web Site at <http://shop.panasonic.com/support> as Panasonic is committed to providing the most up to date information. Include a letter detailing the complaint, a return address and provide a daytime phone number where you can be reached. A valid registered receipt is required under the Limited Warranty.

IF REPAIR IS NEEDED DURING THE 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 warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The 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, 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 Service Center 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 WARRANTY.

(As examples, this excludes damages for lost time, travel to and from the servicer, loss of or damage to media or images, data or other memory or recorded content. The items listed are not exclusive, but 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 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 warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to:

Consumer Affairs Department
Panasonic Corporation of North America
661 Independence Pkwy
Chesapeake, VA 23320

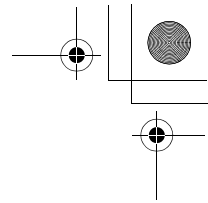
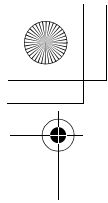
PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

As of June 2015

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12 For assistance, please visit <http://shop.panasonic.com/support>



Notes

