



COX
BUSINESS



DECT for IP Centrex
Administrator Guide

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Overview

Cox Business offers Digital Enhanced Cordless Telecommunications (DECT) technology for IP Centrex voice customers. DECT for IP Centrex is a cordless handset option that allows users to move about their office areas without being tethered by a corded IP handset. The product comes with a **DECT Base Station**, which can support up to eight (8) cordless handsets and a **DECT Handset with charger**, which can be paired with the Base Station and configured with any of its Line Registrations. A **DECT Repeater** can be added for customers who need to have the DECT signal boosted to cover their entire work area.

Figure 1. DECT Equipment



This guide instructs you on how to install, set up, and configure each DECT component.

Installing DECT Equipment

How to Install the Base Station

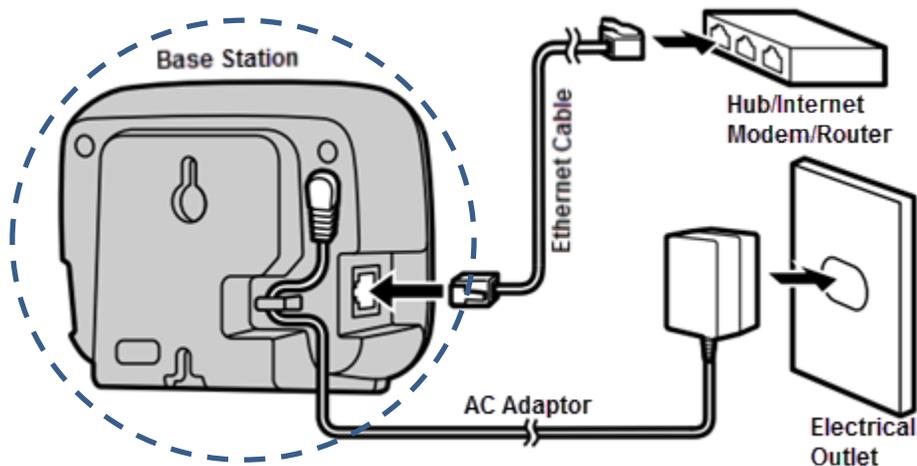
The DECT Base Station communicates with the handsets. Each base station can support up to eight (8) separate handsets and up to eight (8) separate phone numbers.

The base station is configured by Cox and arrives at the customer location with the phone numbers pre-loaded. The customer will need to pair the handsets with their appropriate base station*.

Figure 2. DECT Base Station (front view)



Figure 3. DECT Base Station Unit (back view)



Use the following steps to install the base station.

1. Connect the AC adaptor (included) to the base unit and electrical outlet.
2. Connect the Ethernet cable (included) to the base unit and the Hub, Internet modem, or router.

*A technician will pair handsets for large installations.

Base Station STATUS Light Indicator

The base station displays a color that indicates its working STATUS. Refer to the table below for a description of the colors and their associated STATUS.

Figure 4. Base Unit STATUS light indicator

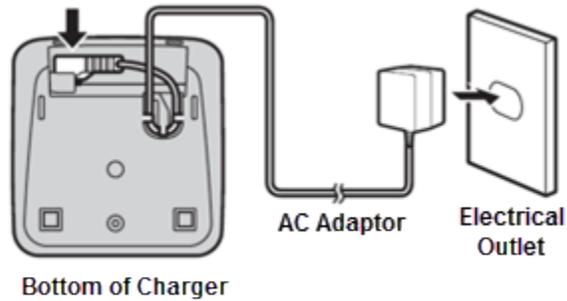


STATUS Indicator	Meaning
Solid Green	The base unit is connected to the internet and connected to the HPBX Small Office system.
Slow Flashing Green (once a second)	The base unit is being used for a call. <i>Or</i> The base unit is downloading data. Do not disconnect the Ethernet cable or AC power adaptor from the base unit until the light becomes solid green.
Quick Flashing Green (4 times a second)	The handset/desk phone is busy.
Solid Red	The base unit is booting up. This will take about 40 seconds.
Slow Flashing Red (once a second)	The base unit is registering a handset/desk phone.
Quick Flashing Red (4 times a second)	The base unit is paging handsets/desk phones (by using the handset locator button).
Solid Yellow	The base unit's IP address may conflict with another IP address on your network.

STATUS Indicator	Meaning
Slow Flashing Yellow (once a second)	<p>The base unit is attempting to connect to the Internet or to the HPBX Small Office system. Please wait.</p> <p>If it flashes indefinitely, check your network settings, ensure your Internet connection is working, or try restarting all your devices.</p>
Quick Flashing Yellow (once a second)	<p>Unplug the base unit's AC adaptor to reset the unit, then reconnect the AC adaptor.</p> <p>If it is still flashing, there may be a problem with the base unit hardware.</p>
Slow switching (Red → Green → Amber → Off)	<p>The base unit is in maintenance mode. Once it is off, turn the base unit back on again.</p>
Quick switching (Red → Green → Amber → Off)	<p>The base unit is restarting. Please wait.</p>
Off	<p>The base unit power is off.</p> <p><i>Or</i></p> <p>The Ethernet cable is not connected properly.</p> <p><i>Or</i></p> <p>Your network devices (modem, switch, router, etc) are turned off or not functioning.</p>

How to Install the Handset

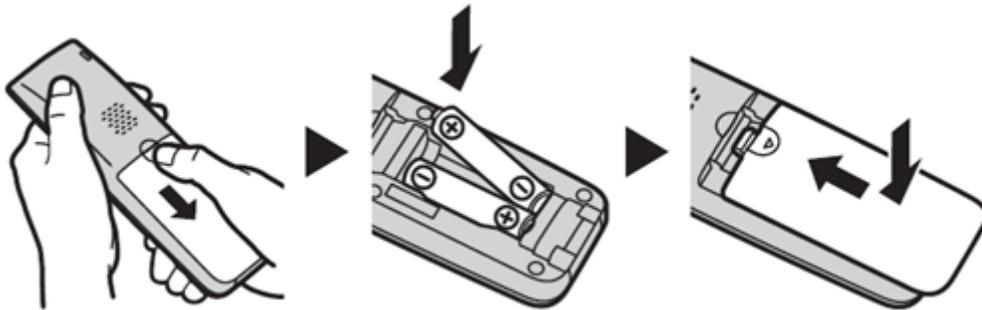
Figure 5. Handset Charger (bottom view)



Use the following instructions to install the IPC DECT handset.

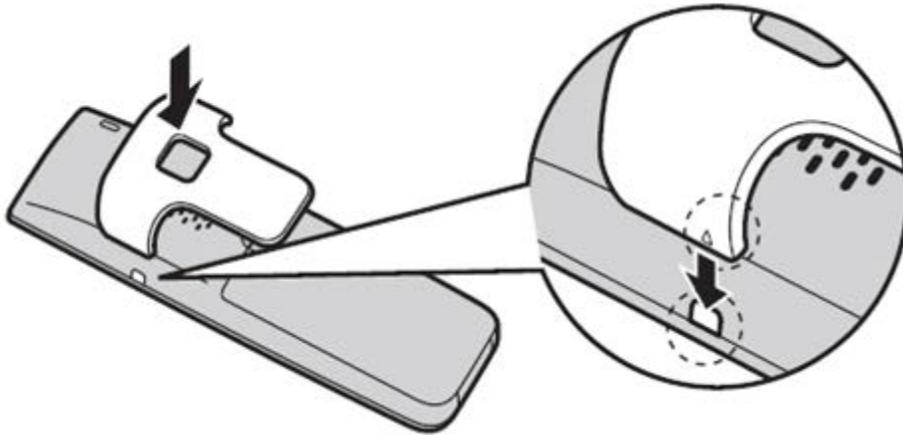
1. Plug the AC adaptor into the charger.
2. Press the plug firmly to make sure it is in place. (**Note:** There is a cord holder at the bottom of the unit to secure the cable in place to prevent it from being accidentally pulled out.)
3. Plug the other end of the AC adaptor into an electrical outlet.
4. Remove the plastic wrapper from the rechargeable batteries included in the box and place them into the handset. See Figure 6.
5. Close the cover.

Figure 6. Battery Installation



6. (Optional) Attach the belt clip by pushing the clip onto the back of the handset.
7. Insert the clip into the designated notches in the handset.

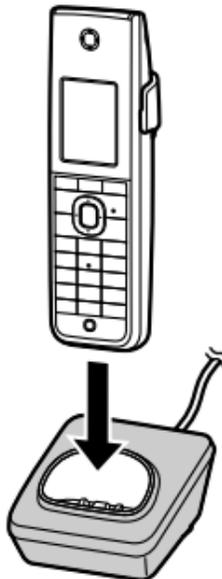
Figure 7. Belt Clip



8. Place the handset into the charger and confirm that the light at the top left of the handset is solid red. (**Note:** Charging the unit takes approximately six (6) hours. When the batteries are fully charged, the light will turn off and the Battery Indicator at the top right of the display will be full.)

Result: You are now ready to make and receive calls from the cordless handset.

Figure 8. Handset with Charger



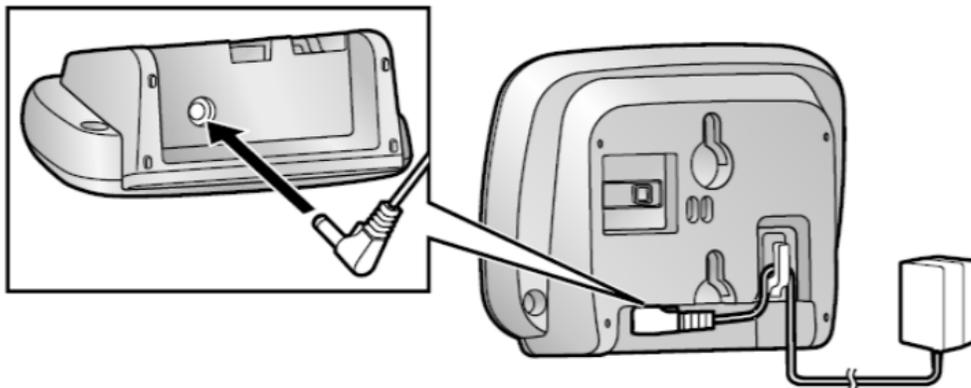
How to Install the Repeater

The DECT Repeater increases the indoor communication area from 164 feet to approximately 656 feet, depending on the environment.

Figure 9. DECT Repeater (KX-A406) front view



Figure 10. DECT Repeater (KX-A406) back view



Use the following steps to install the IPC DECT repeater.

1. Plug the AC adapter into the repeater.
2. Press the plug firmly to make sure it is in place. There is a hook at the bottom of the unit to secure the cable in place to prevent it from being accidentally pulled out. **Do not plug in the AC adapter into an electrical outlet yet.**
3. On the DECT Base Station, press and hold the Handset locator button for four (4) seconds until the STATUS indicator flashes red. If all registered handsets start ringing, press the same button to stop and repeat the step. **The next step must be completed within 90 seconds.**
4. Plug the AC adapter of the DECT repeater to an electrical outlet.
Result: On the repeater, the STATUS indicator and indicator will turn amber for two (2) seconds. When both indicator lights turn solid green, the repeater is registered to the base unit and is ready to use.
5. Press the Handset locator button on the base unit to exit the registration mode.

Configuring the DECT Handset and Base Station

The Panasonic KX-TGP600 Base Station can support up to eight (8) cordless handsets or wireless desk phones. Each handset must be registered, or paired, to the base unit before it can be used. When the initial equipment arrives, one handset may already be paired to the base unit. If so, it is designated as the Admin handset and can be used to configure the other handset telephone numbers.

There are two types of pairing methods:

- Pair the handset to the base unit using the base unit
- Pair the handset to the base unit using the handset

How to Pair the Handset to the Base Unit Using the Base Unit

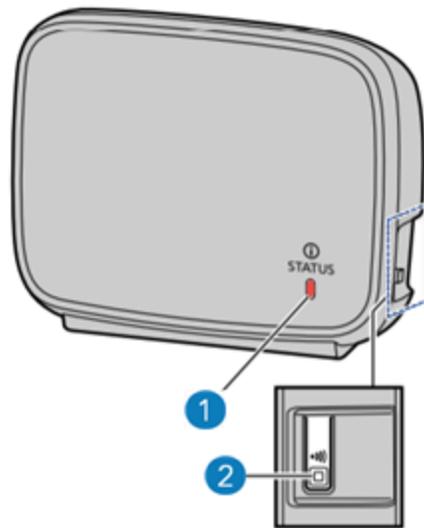
The supplied handset and base unit are preregistered. If the handset phone is not registered to the base unit; for example, the signal strength is out of range even when the handset is near the base unit, re-register the handset.

Follow the step below to pair the handset to the base unit using the base unit.

1. On the base unit, press and hold the handset locator button, located on the right side of the unit, for approximately 3 seconds.

Result: The STATUS indicator on the base unit will slowly flash red.

Figure 11. Handset Locator button on Base Unit



How to Pair the Handset to the Base Unit (Using the Handset)

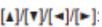
If using the base unit is difficult or if you want to specify the handset phone number during registration, you can use a registered handset to add new handsets. (**Note:** Before operating the handset, confirm that the STATUS indicator of the base unit is Green [On/Slow Flashing/Quick Flashing]).

Use the step below to pair the handset to the base unit using the handset.

1. In standby mode, press and hold the OK button on the handset until the screen displays "Please Wait..."

Result: When "Registered" displays on the LCD, the registration is complete.

OR

1. Press the Menu option  **MENU** on the handset.
2. Press the navigation arrows  and select the phone settings icon .
3. Press **OK**.
4. Press the up/down navigation arrows  and select **System Settings**.
5. Press **OK**.
6. Press the up down navigation arrows  and select **Register H/S**.
7. Press the OK **button**.
8. Select a handset and press **OK**. (**Note:** If more than five (5) handsets are registered, press **Next** to scroll down.)

Result: The STATUS indicator on the base unit will slowly flash red.

How to Program the Display Name of a Handset

You can customize the name of Handsets for easier reference. The name shows on the display while the handset is in *standby* mode. (Default handset names are: "Handset 1," "Handset 2," "Handset 3"... "Handset 8.")

Use the following steps to program the name of a handset.

1. When the phone is in standby mode, press [MENU] or the center Nav button.



2. Select [Setting Handset], then press [OK].



3. Navigate ▲/▼ to select [Display Option], then press [OK].



4. Navigate ▲/▼ to select [Handset Name], then press [OK].



5. To delete the existing name, press the [Transfer/Clear] button.



6. To enter your telephone number, press the Softkey under [ABC] to change the character map to [0-9].



7. Use the keypad to enter your telephone number and press [OK] to save.
8. Press the [Power/Cancel]  button to exit.

How to Configure Incoming Calls for Handsets

The first handset that is paired to the base unit is the Admin phone and can be used to configure the other handsets. The base unit arrives configured in *multi-line mode*—with all phone numbers, including Second Call Appearance (SCA) extensions—available to be used by all handsets. If desired, handsets can be user-configured to receive calls from selected numbers only and originate calls only from selected telephone numbers.

Using the Admin handset, the following table provides the assignment options.

MultilineSetting	Specifies the multiline mode.	<input type="checkbox"/> Incoming Call ^{*2} <input type="checkbox"/> Line 1–8 <input type="checkbox"/> Handset 1–8 <input type="checkbox"/> Outgoing Call ^{*3} <input type="checkbox"/> Handset 1–8 <input type="checkbox"/> Line 1–8 <input type="checkbox"/> Default Line ^{*4}	Incoming Call: Handset 1–8 Outgoing Call: Line 1–8 Default Line: Line 1
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Configuring Incoming Calls – Detailed Example

The first handset paired to the base unit will become the Admin handset capable of configuring all other handsets paired to the base station.

1. From the home screen on the Admin DECT handset, select MENU.



2. Using the mouse, scroll to the to the lower center icon for STATUS/Network/System.



3. Select System Settings.



^{*2}After selecting the line, selects the handset(s) assigned to the line. This function is enabled by default for all handsets.

^{*3}After selecting the handset, selects the line(s) assigned to the handset. This function is enabled by default for all handsets.

^{*4}After selecting the handset, selects a default line assigned to the handset.

4. Scroll down to **Multiline Setting** and press **OK**.



5. Select **Incoming Call**.

Result: The available Line Registrations of the Base Station display.



6. Highlight the number of the Line/Seat/SCA to configure which handsets will receive incoming calls and press **OK**. In this example, TN 555-555-5555 was selected.

Result: A list of DECT Handsets paired with the same base station display.



7. Place a check mark next to the name of each Handset that will be allowed to receive calls for the number. In this example, Handset 1 and Handset 2 will receive calls for TN 555-555-5555.



How to Configure Outgoing Calls for Handsets

The first handset that is paired to the base unit is the Admin phone and can be used to configure the other handsets. The base unit arrives configured in *multi-line mode*—with all phone numbers, including Second Call Appearance (SCA) extensions—available to be used by all handsets. If desired, handsets can be user-configured to receive calls from selected numbers only and originate calls only from selected telephone numbers.

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Configuring Outgoing Calls – Detailed Example

The first handset paired to the base unit will become the Admin handset capable of configuring all other handsets paired to the base station.

1. From the home screen on the Admin DECT handset, select **MENU**.



2. Using the mouse, scroll to the to the lower center icon for STATUS/Network/System.



3. Select System Settings.

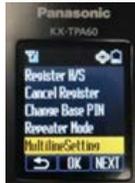


^{*2}After selecting the line, selects the handset(s) assigned to the line. This function is enabled by default for all handsets.

^{*3}After selecting the handset, selects the line(s) assigned to the handset. This function is enabled by default for all handsets.

^{*4}After selecting the handset, selects a default line assigned to the handset.

4. Scroll down to **Multiline Setting** and press **OK**.



5. From the Multiline Setting menu, select **Outgoing Call**.



6. Select the Handset to configure what numbers can be used for outgoing calls. The handset will be able to place calls only using the numbers that are selected.



7. Place a check mark(s) next to the TNs that the handset will use to place outgoing calls.
8. Press OK to save the selection. This will return you to the Multiline Settings menu.

Assignment of Default Outgoing Telephone Numbers

Selecting Default Line will display telephone numbers (TNs) a handset can use for placing outbound calls.

1. Select the Handset to display out going default TNs. In this example, Handset 1 will place all outgoing calls using the TN 555-555-5555.
2. In this example, Handset 2 may place outgoing calls using either TN.

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