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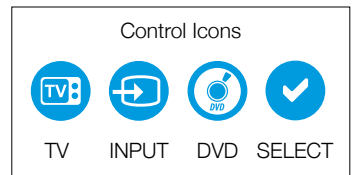
Call Crest Technical Support for
assistance at: **1-800-328-8908**
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2 YEAR WARRANTY

LATEX-FREE

OXYGEN SAFE

Control Icons

TV   INPUT   DVD   SELECT

Crest Elite Infrared™ Rauland® Responder® 5 Pillow Speaker

Introduction

The Elite Infrared Rauland Responder 5 Pillow Speaker is the only pillow speaker that allows digital communication between the Rauland Responder 5 station and the pillow speaker while controlling the TV and DVD functionality through infrared technology. The Elite Infrared Rauland Responder 5 Pillow Speaker offers the functionality of nurse call, lighting control, TV controls and more in a latex-free and oxygen safe packaging. They blend the functionality and ease of a universal remote with nurse call, radio, and environmental controls. The elimination of the need for separate remote controls for the DVD player and TV reduces confusion, clutter and equipment loss. Regardless of a TV's wiring configurations, Elite Infrared Rauland Responder 5 Pillow Speakers can be programmed to work in place of the existing remote control.

Warranty and Conditions Of Use:

This product is unconditionally guaranteed against defects in materials and workmanship for a period of two years from the original date of purchase. Any use or application of this product outside the scope of this document exceeds the recommendations of the manufacturer and may result in cancellation of warranty terms. User must evaluate and validate any other applications prior to placing device into service.

Precautions

Normal Use:

This device may be safely used for the activation of a nurse call signaling circuit as defined in UL 1069. User must verify plug style, voltage and wiring are appropriate for their intended use. This device has been tested safe for use by patients undergoing oxygen therapy - refer to labeling on the product for prescribed use in an oxygen-enriched environment. This device has been tested and found to be in accordance with requirements as defined in UL 1069 Standard for Hospital Signaling and Nurse Call Equipment by Intertek and judged eligible to bear ETL's Mark. This device has been tested to and found in accordance with requirements of FCC Part 15 Subpart B and Canada ICES-003, Issue 5:2012 by TÜV SÜD America, Inc., an independent testing laboratory. Operation is subject to the following two conditions : (1) This device may not cause harmful interference, and (2) this device must accept and interference received, including interference that may cause undesired operation. Modifications not approved by Crest Healthcare Supply would void the user's authority to operate the pillow speaker.

Electrical:

For connection to power limited circuits of 6.5 VDC, 0.1 A or less. Make periodic leakage current measurements of all pendant control/pillow speaker circuits to verify the values are appropriate for the installation location.

Cleaning and Sterilization:

The outside of the cable jacket and pendant may be cleaned with alcohol, most disinfecting and sterilization agents, or mild detergent and water.

RECOGNIZED COMPONENT
ETL LISTED
Intertek
3106626
Conforms To UL STD 1069

FC

Warning:

Do not use cleaning or sterilization solutions directly on metallic portions of the electrical plug, and do not immerse the electrical plug in any cleaning solution. Submersion of the plug end of the pillow speaker will result in fluid contacting the electrical compartment of the plug and will cause corrosion or failure of the electrical contacts. Damage due to fluid submersion and subsequent corrosion of the plug electrical contacts is not covered under the manufacturer's warranty. While every attempt has been made to make the Elite Infrared Rauland Responder 5 Pillow Speaker as moisture resistant as possible, there are still avenues for fluid intrusion, and as such, the device is NOT submersible. Do not steam sterilize the pillow speaker – high heat may destroy or distort some of the components. Maximum exposure temperature is 120ºF. Gas sterilization may be used as long as the maximum temperature is not exceeded.

Opening & Closing the Pillow Speaker Case

Opening and closing the pillow speaker case requires careful attention to alignment, positioning and directional movement. Please follow these steps.

To Open the Pillow Speaker Case:

1. Lay the pillow speaker front case down on a flat surface with its speaker end pointing to your left and the cable end pointing to your right.
2. Remove outside battery cover screw on back of the case. Set aside cover. Remove the two screws inside battery compartment and two exterior case screws.
3. Once all screws have been removed, place your left wrist down on the speaker area and use your left fingers to grasp the bottom of the case.
4. Use your right hand to push down on the cable and front case that is facing down, while gently, but firmly pulling up the back case near the cable.
5. Case will begin opening at the cable end, then will snap open at middle and toward the speaker end. You should hear audible snaps as internal hooks release.
6. Be gentle when pulling cases apart. Wires may be attaching front and back case which can be strained if top and bottom case are pulled apart aggressively.

To Close the Pillow Speaker Case:

1. Place the front of the pillow speaker face down on a flat surface.
2. Ensure that the exterior cable is properly positioned and placed in the front case notch with the rounded edges facing toward the back case.
3. Ensure that all wires are tucked inside as you bring the top and bottom cases toward one another. For the Infrared Pillow Speaker, ensure that the LED wire is threaded around the speaker and away from the edges so it does not pinch between the top and bottom cases.
4. Find position guide along pillow speaker top interior edge, making sure back case is centered and positioned using guide as you fit cases together. If constant pressure is not kept on speaker area, front hook can lose position and detach. Use hand on end to apply pressure and keep top and bottom case in position. Increase pressure down pillow speaker, applying pressure across body until you hear hooks snap together and top and bottom come together at the cable end.
5. Return the case screws into position.

Programming & Operating

1. Locate TV/DVD brand in the *Entertainment Device Codes* section located below. You will be using device codes listed for your brand in step six.
2. Press the device select button (**tv, dvd**), if your pillow speaker is equipped with both TV and DVD functions, otherwise skip this step. You should get a short conformation LED flash above the device select button.
3. Press and hold the **CC** and **mute** buttons. The appropriate device LED will flash for one second confirming that you are entering programming mode. Continue holding both buttons down until the appropriate device LED starts to flash. This should take approximately three seconds.
4. Release **mute** button while LED is flashing. The LED will stop flashing. Continue holding down **CC** button until LED starts to flash again. (aprox 3 seconds)
5. Release **CC** button while LED is flashing. The LED will stop flashing, remaining off. You will have approximately 15 seconds to begin entering device code.
6. Enter the device code. The appropriate device LED will flash once after each digit is entered to signify that the digit has been accepted. Once the code has been entered the appropriate LED will remain off for two seconds followed by a two second flash to signify a valid code entry.
7. Test all pillow speaker buttons. If code doesn't work, program pillow speaker by repeating steps two through six with another device code listed for TV/DVD brand.

Note:

If at anytime during step six you see LED flash five times very quickly, either the code entered was invalid or too much time elapsed between digit entries. In this case, repeat entire programming procedure from beginning. The pillow speaker will return to normal operation throughout steps two through four if you release both the **CC** and **mute** buttons. In either of these two cases the pillow speaker will default back to the codes that were being used prior to programming.

LED Light Indicator

For pillow speaker models equipped with DVD feature, either the tv LED or dvd LED will flash depending on the mode pillow speaker is operating. Pillow speakers with TV only model will flash tv LED to indicate following message.

1. **TV Audio Level Too Loud:** continuous flashing of LED. This is only possible for pillow speakers equipped with internal volume control (IVC). When you notice this, disconnect pillow speaker from station. Wait for LED to stop flashing. Press **volume up** button on the pillow speaker for 10 seconds. Decrease volume of TV to minimum value by using buttons on TV. Plug pillow speaker to the station, slowly increasing volume of TV using buttons on TV to maximum level of volume desired. If you notice flashing during process, disconnect pillow speaker from station and call our Technical Support Department at **1-800-328-8908**.

Entertainment Device Codes

Listed below are the most common TV and DVD brands used in healthcare facilities. If your brand is not listed, or none of the codes worked, please contact our Technical Support Department for help at **1-800-328-8908** or visit our website **www.cresthealthcare.com** for a more extensive list of entertainment device codes.

TV Brand	Three-Digit Device Codes	DVD Brand	Three-Digit Device Codes
LG®	001 (Bed 1), 004, 005 (Bed 2), 020, 056, 073, 091, 102, 104, 106, 107, 108	LG®	000
Panasonic®	002, 003, 008, 013, 014, 019, 022, 023, 036, 057	PDI®	015, 016, 023, 024 (modular), 034, 047
PDI®	002, 003, 014, 012, 017, 062, 087, 092, 100	RCA®	001, 029, 030
Philips	002, 003, 004, 014, 024, 028, 037, 064, 072, 075, 076, 077	Samsung	008, 025, 038, 042
RCA®	000, 004, 018, 020, 021, 023, 065, 070, 103		
Samsung	002, 003, 004, 014, 018, 020		
Vizio®	048, 060, 071		
Sony®	038		
Sharp®	004, 026, 051, 093		
Insignia™	035		
HCI Healthcare TV™	006		

Operating Entertainment Devices

The Elite Infrared Pillow Speaker will only control those entertainment devices (TV, DVD) for which it has been programmed. Refer to the programming section, located earlier in this document, prior to operating.

Operating the Television:

1. Press the button labeled **tv**. (TV only model doesn't require this step.)
   a. The LED above the tv button will flash quickly to show you that you are now in the TV mode.

2. All buttons associated with the TV will now operate. (Some buttons listed below might be absent on your pillow speaker model.)
   a. The **power** button will turn the TV on or off.
   b. The **mute** button will mute the TV sound.
   c. The **input** button will only work if your particular TV features a special input, such as A/V or HDMI. Operation of this button is dependent upon the particular set with which it is used. On sets that do not support this function, the button will be non-functional.
   d. The **select** button will select the option highlighted on the TV screen.
   e. The **volume up** and **volume down** buttons increase or decrease the TV volume. If the pillow speaker is equipped with internal volume control (IVC), volume is adjusted internally in the pillow speaker
   f. The **channel up** and **channel down** buttons sequentially change the channel up and down on the TV.
   g. The **number** buttons (**0 - 9**) function as entry keys for direct channel access.
   h. The **CC** button will toggle the closed caption option on the TV on or off.
   i. Directional buttons will only operate in DVD mode.
Stereo headphones are recommended for best performance when the optional headphone receptacle is in use.

Note:
When pressed, each button listed above in a-h above will flash the tv LED, indicating that the device is in the TV mode and successful transmission of infrared signal to the TV. Buttons listed above may not be available on all pillow speakers. Your pillow speaker may also have additional buttons other than ones listed above.

Operating the DVD Player:

1. Press the button labeled **dvd**. (Only for models equipped with DVD feature.)
   a. The LED above the dvd button will flash to show you that you are now in the DVD mode.
2. All buttons associated with the DVD player will now operate.
   a. The **power** button will turn on or off the DVD player.
   b. The **select** button is used in the main menu of the DVD player to select what you want to view on the DVD.
      i. The **up** and **down arrow**s can be used to navigate this menu vertically.
      ii. The **left** and **right arrows** can be used to navigate this menu horizontally.
   c. In DVD mode, the majority of number keys also include a light gray shape below the number. These commonly used shapes will operate as indicated below:
      i. The **play** button (**5**-key) will start playing the DVD.
      ii. The **stop** button (**8**-key) will stop playing the DVD.
      iii. The **skip ahead** button (**6**-key) will fast forward the DVD.
      iv. The **skip behind** button (**4**-key) will rewind the DVD.
      v. The **chapter ahead** button (**9**-key) will make the DVD jump to the next chapter.
      vi. The **chapter behind** button (**7**-key) will make the DVD jump to the previous chapter.
      vii. The **pause** button (**0**-key) will pause the video.
   d. The **CC**, **input**, **channel up**, **channel down** and **number** buttons **1**, **2** and **3** will become non-functional while in the DVD mode.
   e. The **mute**, **volume up** and **volume down** buttons will continue to operate the TV.

Note:
Pressing a valid DVD button will flash the dvd LED, indicating that the device is in the DVD mode and successful transmission of infrared signal to the DVD player.

Backlight Functionality

If your pillow speaker is equipped with a backlight, the nurse call related buttons will remain illuminated as long as the pillow speaker is plugged into a station. The TV related buttons will illuminate only after a button on the pillow speaker is pressed, and will remain on for about ten seconds after the button is released.

Note:
The backlight is not intended to be noticeable while the room lights are on. It is only bright enough to be seen in a dimly lit room.