

Call Crest Technical Support for assistance at: **1-800-328-8908**
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Programming & Operating Crest Elite Infrared™ Pillow Speakers with Set Top Box Control (STB) for XT and ET pillow speaker part numbers

Crest Elite Infrared Pillow Speaker with Set Top Box control can be programmed to operate your TV, DVD and Set Top Box by simply following the Instructions listed below. TV and Set Top Box are always programmed together, and needs to be programmed prior to programming DVD. **Note: If you have multiple beds/TVs in the same room, please see instructions on page 2 before proceeding with programming.** Pressing video button will either let you control your DVD player, or access Video On Demand functions if the service is offered by your cable/satellite TV provider. From this point on Set Top Box and Video On Demand will be referred to as STB and VOD respectively.

Programming to operate TV and STB

1. Locate your TV brand and STB or cable/satellite TV provider in the *Entertainment Device Codes* section located below and on page 2. If more than one code is listed for your device, start with the first code listed. If you intend to use your pillow speaker to control your DVD player as well, use the codes from 'w/DVD' column for STB, otherwise use the codes from 'w/VOD' column.
2. Press the TV button. You should get a short confirmation LED flash above the TV button.
3. Press and hold the **5** and **channel down** buttons. The TV LED will flash for one second confirming you are entering programming mode. Continue holding both buttons down until the TV LED starts to flash. This should take approximately three seconds.
4. Release the **channel down** button while the TV LED is flashing from step three. The TV LED will stop flashing. Continue to hold down the **5** button until the TV LED starts to flash again. This should take approximately three seconds.
5. Release the **5** button while the TV LED is flashing from step four. The TV LED will stop flashing and remain off. You will have roughly 15 seconds to begin entering the three-digit device code from step one.
6. Enter the three-digit TV code. The TV LED will flash once after each digit is entered to signify that the digit has been accepted. Once the code has been entered, the TV LED will remain off for two seconds followed by a two second flash to signify a valid code entry.
7. Type in the three-digit STB code. The TV LED will flash once after each digit is entered to signify that the digit has been accepted. Once the code has been entered the TV LED will remain off for two seconds followed by a two second flash to signify a valid code entry.
8. Test all the buttons on the pillow speaker. If the code doesn't work, program the pillow speaker by repeating steps two through seven with another device code listed for your device brand.

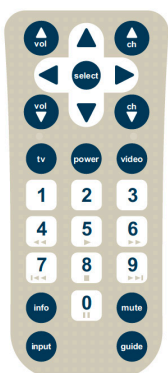
Programming to operate DVD player

1. Locate your DVD brand in the *Entertainment Device Codes* section located on page two. If more than one code is listed for your device, start with the first code listed.
2. Press the **video** button. You should get a short confirmation LED flash above the **video** button.
3. Press and hold the **5** and **mute** buttons. The video LED will flash for one second confirming you are entering programming mode. Continue holding both buttons down until the video LED starts to flash. This should take approximately three seconds.
4. Release the **mute** button while the video LED is flashing from step three. The LED will stop flashing. Continue to hold down the **5** button until the video LED starts to flash again. This should take approximately three seconds.
5. Release the **5** button while the video LED is flashing from step four. The video LED will stop flashing and remain off. You will have roughly 15 seconds to begin entering the three-digit device code for DVD from step one.
6. Enter the three-digit DVD code. The video LED will flash once after each digit is entered to signify that the digit has been accepted. Once the code has been entered, the video LED will remain off for two seconds followed by a two second flash to signify a valid code entry.
7. Test all the buttons on the pillow speaker. If the code doesn't work, program the pillow speaker by repeating steps two through seven with another DVD code listed for your DVD brand.

Note: If you see the LED flash five times very quickly while entering device code, then either the code that was entered was invalid or too much time elapsed between digit entries. In this case, repeat the entire programming procedure. Your pillow speaker will return to normal operation throughout steps two through four if you simply release both the 5 and channel down or mute buttons. In either of these two cases your pillow speaker will default back to the codes that were being used prior to programming.

Entertainment Device Codes

Listed below are the most common TV, DVD and STB brands. If your brand is not listed or none of the codes worked for you, 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

Insignia®
 HCl Healthcare TV™
 LG®
 Panasonic®
 PDI®
 Phillips®
 RCA®
 Samsung
 Sharp®
 Sony®
 Vizio®

Three-Digit Device Code

035
 006, 030, 050, 074
 001, 004, 005, 020, 056, 073, 091, 102, 104, 106, 107, 108
 002, 003, 008, 013, 014, 019, 022, 023, 036, 057
 002, 003, 014, 012, 017, 062, 087, 092, 100
 002, 003, 004, 014, 024, 028, 037, 064, 072, 075, 076, 077
 000, 004, 018, 020, 021, 023, 065, 070, 103, 133, 134, 151
 002, 003, 004, 014, 018, 020, 116 (Bed 1), 117 (Bed 2), 119 (Bed 3), 120 (Bed 4), 121 (Bed 5), 122 (Bed 6), 123 (Bed 7), 124 (Bed 8), 125 (Bed 9)
 004, 026, 051, 093
 038
 048, 060, 071, 115, 135

STB Brand	Three-Digit Device Codes w/ VOD	Three-Digit Device Codes w/ DVD
Amino	010, 016, 24	011, 017, 025
Cablevision	020	021
Charter	018	019
Cisco	020, 004	021, 005
Comcast	006, 008	007, 009
Cox	008, 034	009, 035
Direct TV	052, 012 (Bed 1), 014 (Bed 2)	053, 013 (Bed 1), 015 (Bed 2)
Dish Network	032, 036, 040	033, 037, 041
Mediacom	006	007
Motorola	008, 038	009, 039
NEC	022	023
Scientific Atlantic	020	021
DVD Brand	Three-Digit Device Codes	
LG®	000	
PDI®	015, 016, 023, 024 (modular), 034, 047	
RCA®	001, 029, 030	
Samsung	008, 025, 038, 042	

Miscellaneous Operating Information:

User-specific programming is maintained in the event of dead or removed batteries. Operation will be restored to the previously programmed functionality as soon as fresh batteries have been installed.

LED Light Indicator

Either the tv LED or video LED will flash depending on the mode pillow speaker is operating to indicate following messages.

- Low Battery:** one flash per second. Change the battery when this displays.
- TV Audio Level Too Loud:** four flashes per second. This is only possible for pillow speaker equipped with internal volume control (IVC). When you notice this, disconnect the pillow speaker from the station. Wait for the LED to stop flashing. Press **volume up** button on the pillow speaker for 10 seconds. Decrease the volume of the TV to minimum value by using buttons on the TV. Plug the pillow speaker to the station, and slowly increase the volume of the TV using buttons on the TV to a maximum level of volume you would like to hear. If you notice the flashing during the process, disconnect the pillow speaker from the station and call our Technical Support Department at **1-800-328-8908**.

Operating Entertainment Devices

The Elite Infrared Pillow Speaker will only control those entertainment devices (TV, DVD, STB) for which it has been programmed. Refer to the programming section, located earlier in this document, prior to operating. Your pillow speaker can run in two modes: TV/STB or Video. TV/STB mode can be accessed by pressing **tv** button, and it lets you control your TV and STB. Video mode can be accessed by pressing **video** button. It either lets you control your DVD player, or access VOD functions if the service is offered by your cable/satellite TV provider. You have an option during programming to decide the function of video button.

Operating TV and STB on TV/STB mode

- Press the button labeled **tv** to take your pillow speaker to TV/STB mode.
 - The LED above the tv button will flash quickly to show you that you are now in the TV/STB mode.
- All buttons associated with the TV and STB will now operate.
 - The **power button** will turn the TV on or off.
 - The **mute** button will mute the TV sound.
 - 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.
 - 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.
 - The **channel up** and **channel down** buttons sequentially change the channel up and down on the STB.
 - The **number** buttons (**0 - 9**) function as entry keys for direct channel access of your STB.
 - The **up** and **down** arrows are used to navigate the STB menu vertically.
 - The **left** and **right** arrows are used to navigate the STB menu horizontally.
 - The **select** button will select the option highlighted on the STB menu.
 - The **info** button will give you information about the current channel.
 - The **guide** button will let view current and future programs offered by your cable/satellite TV provider.

Stereo headphones are recommended for best performance when the optional headphone receptacle is in use.

Note: When pressed, each button listed above in a-k above will flash the tv LED, indicating that the device is in the TV/STB mode and successful transmission of infrared signal.

Accessing VOD functions in Video mode:

- Press the button labeled **video** to take your pillow speaker to Video mode.
 - The LED above the video button will flash to show you that you are now in the Video mode.
- All buttons associated with the VOD will now operate.
 - The **up** and **down** arrows are used to navigate the STB menu vertically.
 - The **left** and **right** arrows are used to navigate the STB menu horizontally.
 - The **select** button will select the option highlighted on the STB menu.
 - The **info** button will give you information about the current channel.
 - In Video mode, the majority of number keys also include a light gray shape below the number. These commonly used shapes will operate as indicated to the right:

- The **play** button (**5-key**) will start playing the video.
- The **stop** button (**8-key**) will stop playing the video.
- The **skip ahead** button (**6-key**) will fast forward the video.
- The **skip behind** button (**4-key**) will rewind the video.
- The **pause** button (**0-key**) will pause the video.

- The **input, channel up, channel down, guide** and **number** buttons **1, 2, 3, 7** and **9** will become non-functional while in the Video mode.

- The **power, volume up, volume down** and **mute** buttons will continue to operate TV.

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

Operating DVD player in Video mode:

- Press the button labeled **video** to take your pillow speaker to Video mode.
 - The LED above the video button will flash to show you that you are now in the Video mode
- All buttons associated with the DVD will now operate.
 - The **power** button will turn on or off the DVD player.
 - The **select** button is used in the main menu of the DVD player to select what you want to view on the DVD.
 - The **up** and **down arrows** are used to navigate this menu vertically.
 - The **left** and **right arrows** are used to navigate this menu horizontally.
 - In Video mode, the majority of number keys also include a light gray shape below the number. These commonly used shapes will operate as indicated below:
 - The **play** button (5-key) will start playing the DVD.
 - The **stop** button (8-key) will stop playing the DVD.
 - The **skip ahead** button (6-key) will fast forward the DVD.
 - The **skip behind** button (4-key) will rewind the DVD.
 - The **chapter ahead** button (9-key) will make the DVD jump to the next chapter.
 - The **chapter behind** button (7-key) will make the DVD jump to the previous chapter.
 - The **pause** button (0-key) will pause the video.
 - The **input, channel up, channel down, info, guide** and **number** buttons **1, 2** and **3** will become non-functional while in the Video mode.
 - The **mute, volume up** and **volume down** buttons will continue to operate the TV.

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

Room Environments with Multiple Beds and STB-TV combination:

There are two equipment configuration options available when using the Crest Elite Infrared Pillow Speaker in room environments with multiple beds and STB-TV combination. The grade/type of TVs in use (health-grade, commercial or consumer) and a STB feature will determine the feasibility of the options.

When healthcare-grade or commercial TVs are in use, STB-TV combinations and the pillow speakers can be paired using the STB and TV's multiple IR code capability. Pairings are referred to as Bed 1, 2, 3, 4, etc. With this configuration, one TV is set to Bed 1 and then the pillow speaker that will be used with that particular TV is programmed as Bed 1. Another TV and pillow speaker in the same room is paired in the same way as Bed 2. Along with the TV, the STB used in the room should also have the feature of multiple IR code capability and the pairing process of STB and pillows speaker is the same as described above for TVs. This pairing method is continued until each STB-TV combination and pillow speaker in the same space has been paired.

Alternatively, TVs of any type (healthcare-grade, commercial and consumer) and STBs will function with the Crest Elite Infrared Pillow Speaker so long as no TV and STB in the same room accepts the same IR code.

STB-TV combination:

IPTV refers to the delivery of the TV content/channels via Ethernet. Usually there is a cable box placed between the TV and the Ethernet connection which is equipped with an IR receiver. New smart TVs may include the cable box inside the TV. Regardless of the set-up, Crest IR Pillow Speakers are capable of operating the IPTV.