

# Q-Controls

## Basic Operation Instructions

ACN# 088 609 661



# **QUANTUM**

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# **REHAB**

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# PRODUCT SAFETY LABELS

The symbols below are used throughout this manual and on the product to identify warnings, cautions, and notes. It is very important for you to read and understand the information that follows these symbols completely.



**WARNING!** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



**CAUTION!** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and/or property damage.



**NOTE:** Indicates important things to remember when using this product.

Using this product safely depends upon your diligence in following the warnings, cautions, notes, and instructions in this owner's manual. Safe operation also depends upon your own good judgement and/or common sense, as well as that of your provider, caregiver, and/or healthcare professional.



**NOTE:** Please read and follow all instructions in this manual before attempting to operate this product for the first time. If there is anything in this manual you do not understand, or if you require additional assistance for setup, contact your authorized Pride provider.



**NOTE:** Pride is not liable for damage to property or personal injury arising out of unsafe use of this product. Pride is also not liable for any property damage or personal injury arising out of the failure of any person and/or user to following the instructions and recommendations set forth in this manual or any other instructions or recommendations contained in other Pride related literature issued by Pride or contained on the product itself.



**NOTE:** We have compiled this manual from the latest specifications and product information available at the time of publication. We reserve the right to make changes, as they become necessary. Any changes to our products may cause slight variations between the illustrations and explanations in this manual and the product you have purchased.

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## INTRODUCTION

### The Q-Controls Unit

This manual describes the installation, setup and operation of the Q-Controls. The Q-Controls system has been developed specifically for those with severe disabilities, that restrict or prevent the use of conventional domestic controls. Its function is to give the user a safe control system, allowing:

- Simple and easy operation of most static domestic appliances (e.g., TV)
- Control of general living environment (e.g., heating and lighting levels)
- A working link to door opening/speech intercom systems

The Q-Controls system can be programmed to perform over 2,500 functions. This wide range of applications gives a high degree of independence to the user.

Through a personal pre-assessment service, a trained technician tailors every Q-Controls unit to each individual user, taking into account the degree of movement and mobility available. The system can be operated by joystick, switch, or keypad, and where applicable can be connected to a power chair controller. The Q-Controls unit uses a simple, picture based menu system to provide access to thousands of controlling functions and can be supplied with a quick release adapter plate allowing easy mounting in various situations.

Additional features can be incorporated to provide a tilt alarm, which will automatically call caregivers or emergency services in the event of a chair overturning, or place other emergency calls via the intercom, external telephone number, or pager.

### Limitations of Use

For use indoors or outdoors with the Q-Controls range of products ONLY. Only approved Q-Controls parts may be connected to the Q-Controls unit (including power supply, battery pack, joystick, and switches). No other device may be connected to any of the sockets without prior permission, given in writing from the manufacturer. Non-compliance with these instructions may damage the equipment, void any warranty, and/or create a hazardous situation.

Care must be taken to keep your Q-Controls system components dry and away from sources of extreme heat or cold.

### Storage and Transportation

Temperature: -4°F (-20°C) to 158°F (70°C)

Humidity: 20%-80% without condensation

### Batteries

The Q-Controls unit contains a NiMh battery pack that can only be changed by trained personnel. The battery pack will normally be changed every 2 years by your service engineer. The battery pack must only be replaced with genuine manufacturer's parts.

### Features

Figure 1 illustrates the main components of your Q-Controls unit.

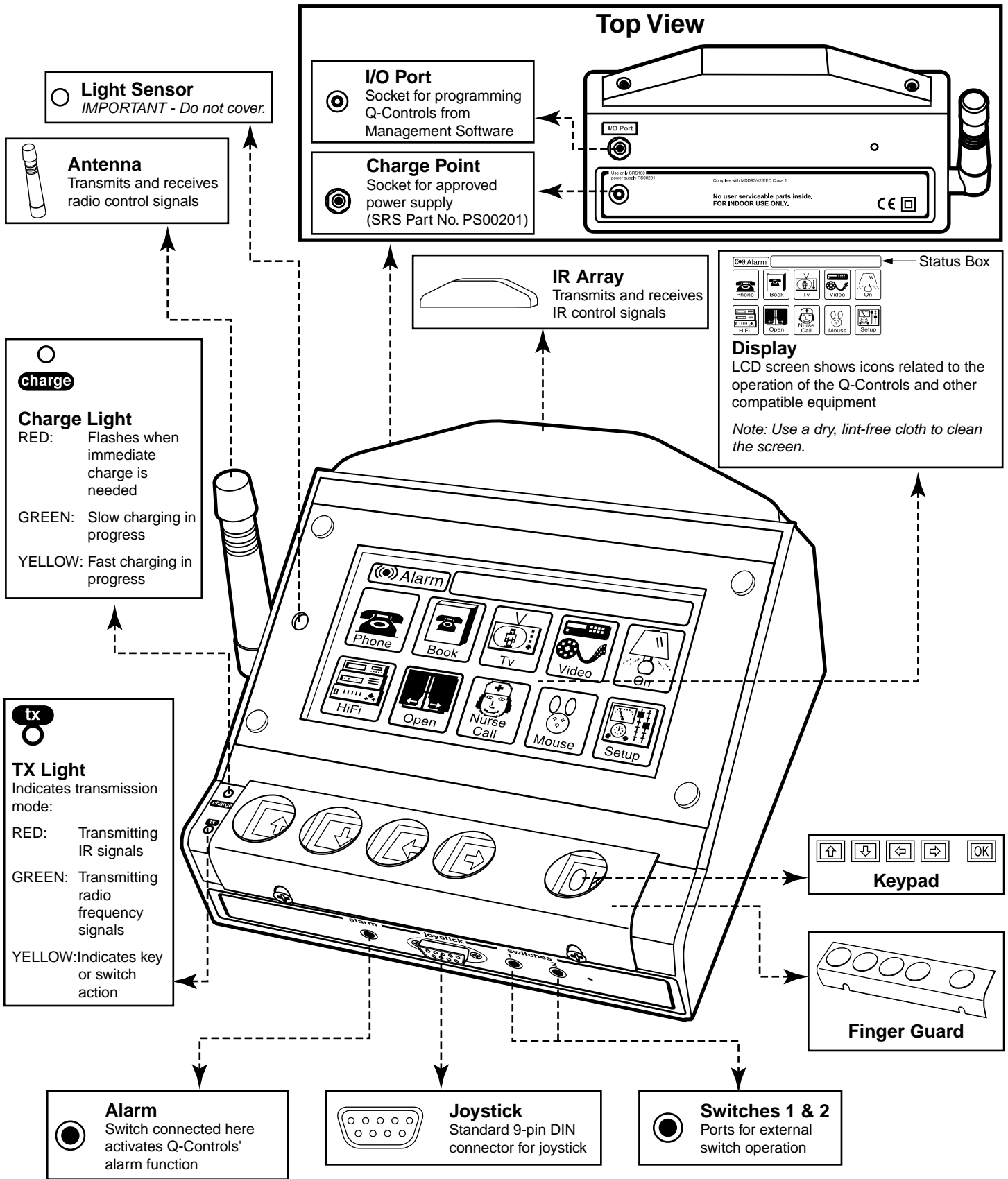
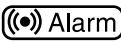
















Figure 1. Q-Controls Unit

## ICON DESCRIPTIONS

The following table describes the important icons that are common to most configurations.

| Icon(s)  | Description and Use  |
|--|--|
|  Alarm  | Alarm — Activates the 10-second countdown for sounding the Q-Controls unit's internal siren              |
|  CANCEL        | Cancel — Stops the alarm countdown and returns you to the main menu screen                               |
|  MENU          | Menu — Takes you back to the main menu or to a higher-level menu screen related to your current activity |
|  More >>  MORE | More — Accesses another menu screen with additional icons related to your current activity               |
|  Socket  | Socket — Instructs IntelliSocket to turn power on to a device (indicated by menu screen heading)         |
|  Av        | AV — Selects the TV's AV channel   |
|  CUSTOM<br>1  | Custom 1-9 — Provides any customized function. Contact your Quantum Rehab representative for details.    |
|  -/--   | Allows you to select TV Channels with numbers greater than 9   |
|  MENU   | Menu — Opens the video menu  |
|  select   | Select — Activates multi-disk selection on Hi-fi, CD, or DVD players                                     |
|  Shu<br>elff  | Shuffle — Plays CD disks in a random order   |

## BATTERY CHARGING

Your Q-Controls unit has an internal rechargeable battery pack. A fully charged battery should last for 1 to 2 weeks under normal use. The battery has an expected service life of 2 years.

The status box on the menu screen (see figure 1) displays information about the battery when it needs to be charged:

- Low Battery            The battery has sufficient charge for a few more hours of operation and the unit should be charged at the next convenient time.
- Charge Now            The battery is discharged and should be charged immediately. In this condition, the charge light on the front of the Q-Controls unit also flashes red.

### To Charge the Batteries:

1. Plug the Q-Controls power cable, supplied with your unit, into the charge point on the Q-Controls unit (see figure 1) and a standard wall outlet.
2. Charge the Q-Controls unit for at least four hours and preferably overnight.



**NOTE: Pride recommends that you charge the unit for 12 hours before use. This ensures the maximum operating period for the Q-Controls unit.**

For the first four hours, the unit uses a fast charging method. After this, it switches to a trickle charge mode. The charge light indicates the current charging method:

- Yellow            Fast charge
- Green            Trickle charge



**NOTE: The unit may be unplugged from the charger at any time, but we strongly recommend that charging is carried out overnight, or for a full, four-hour period. The unit can be used while it is charging.**



**CAUTION! Do not charge unless the Low Battery status message has been displayed. Do not leave the unit on charge for extended periods of time, as this may shorten the battery life.**

## INPUT OPTIONS

You can operate the Q-Controls unit using:

- The keypad on the Q-Controls unit
- A single switch
- Two switches
- A 2-way, 3-way, or 4-way joystick

### Navigating, Highlighting, and Selecting

#### Through the Q-Controls Keypad:

1. Press any key to activate the Q-Controls unit. The icon in the top left corner of the current menu screen will be highlighted.
2. Press and hold any of the arrow keys. The Q-Controls unit scans in the appropriate direction, highlighting each icon in turn.
3. When the icon for the desired function is highlighted, release the arrow key.
4. Press the “OK” button to select that icon.

#### Through a Single Switch:

1. Press the switch to activate the Q-Controls unit. The icon in the top left corner of the current menu screen will be highlighted.
2. Press the switch again to commence a scan of the displayed menu. The Q-Controls unit will automatically highlight each icon in turn, starting with the top left icon, and then moving left-to-right across each subsequent row of icons.
3. When the desired icon is highlighted, press the switch again to carry out the function associated with the selected icon.

#### Through Two Switches:

1. Press any switch to activate the Q-Controls unit. The icon in the top left corner of the current menu screen will be highlighted.
2. Press and hold down switch #1. The Q-Controls unit will automatically highlight each icon in turn, starting with the top left icon, and then moving left-to-right across each subsequent row of icons.
3. When the desired icon is highlighted, release switch #1.
4. Press switch #2 to carry out the function associated with the selected icon.

#### Through a 2-way or 3-way Joystick:

1. Move the joystick in any direction to activate the Q-Controls unit. The icon in the top left corner of the current menu screen will be highlighted.
2. Press and hold the joystick to the right or left to highlight successive icons.
3. When the desired icon is highlighted, release the joystick.
4. Move the joystick to the down position (pull it toward you) to select the highlighted icon.

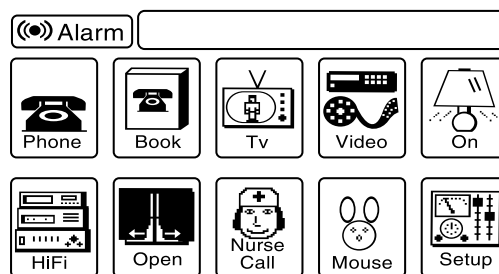
### Through a 4-way Joystick and Select Button:

1. Move the joystick in any direction to activate the Q-Controls unit. The icon in the top left corner of the current menu screen will be highlighted.
2. Press and hold the joystick in any direction to highlight successive icons.
3. When the desired icon is highlighted, release the joystick.
4. Press the select button to carry out the function associated with the selected icon. (This button may be part of the joystick or a separate button connected to the Q-Controls unit.)

## OPERATIONS

### Menu Structure

- Main Menu Screen** The first menu screen on your Q-Controls unit is the main menu from which all major functions can be accessed. These functions have been customized to suit your needs and therefore may vary in appearance or description from the illustrations or instructions in this manual. Many of the icons on the main menu allow you to access other menu screens.



**Figure 2. Main Menu Screen**



**NOTE:** For complex devices with many controls, select the **MORE>>** icon (not shown in figure 2) to display another main menu screen with additional commands.

- Other Menu Screens** Other menu screens are accessed by selecting an icon in the main menu. They allow you to perform specific tasks in a sublevel menu. To return to the main menu from any of these menus, select the **<<MENU** icon on the top left of your screen.

### Standby Mode

After approximately 2 minutes of inactivity, a preset timer automatically places your Q-Controls unit into standby mode. To “awaken” the Q-Controls unit from standby mode, press any key or switch, or move your joystick.

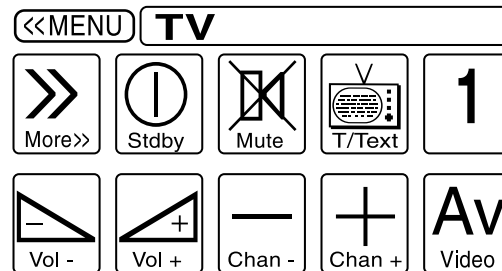
## Operations Working Example

To illustrate the operational principles of your Q-Controls unit, this section provides a “walk-through” or tutorial for some specific tasks. It describes how you can use your Q-Controls unit to:

- Switch your TV on and select a channel
- Change the volume
- Switch the TV off



**NOTE:** You can use the principles learned in these examples to operate other appliances.



**Figure 3. TV Menu**

### Switching the TV On and Selecting a Channel:

1. Begin on the main menu screen. In most cases, the **TV** icon will be on your main menu screen. However, if your supplier has customized your menu screens into “rooms”, the **TV** icon may be situated within one of the first level menus (for example, “**LIVING ROOM**”).
2. Navigate through the icons until the **TV** icon is highlighted.
3. Select the **TV** icon. The first level TV menu is displayed.
4. Highlight and select the **1** icon. This will switch the TV on.
5. To increase the TV channel number, highlight the **CHAN+** icon and select it repeatedly until you reach the desired channel.
6. To decrease the TV channel number, highlight the **CHAN-** icon and select it repeatedly until you reach the desired channel.

### Changing the Volume:

1. Begin on the first level TV menu screen.
2. To increase the volume, highlight the **VOL+** icon. Select the icon, holding down the button or joystick until the desired volume is reached.
3. To decrease the volume, highlight the **VOL-** icon. Select the icon, holding down the button or joystick until the desired volume is reached.



**NOTE:** To change the volume quickly without having to go back to the volume icons, hold the “OK” key (or equivalent) down as long as you want the volume to increase or decrease (depending upon the last icon you selected).

### Switching the TV Off:

1. Begin on the first level TV menu screen.
2. Highlight and select the **STDBY** icon. The TV will go into standby mode.

### Alarm Function

The alarm function on your Q-Controls unit is designed to alert your caregiver (or others in the immediate vicinity) in case of emergency, by means of a siren built into the Q-Controls unit.



Figure 4. Alarm Screen

### Two Ways to Activate the Alarm:

1. Highlight and select the ((•))**ALARM** icon at the top left of the main menu screen.
2. Operate a switch attached to the alarm socket.

When the alarm is activated, the alarm menu screen appears and displays a countdown of 10 seconds before the alarm sounds. When the countdown reaches zero, the alarm will sound until it is cancelled or for 2 minutes, whichever comes first. You can cancel the alarm signal at any time by selecting either the **CANCEL** icon or the **<<MENU** icon.

## CUSTOMIZATION

Your Q-Controls unit is preprogrammed and preset to your individual requirements. However, after a period of use and practice, you may want to alter some of these settings.

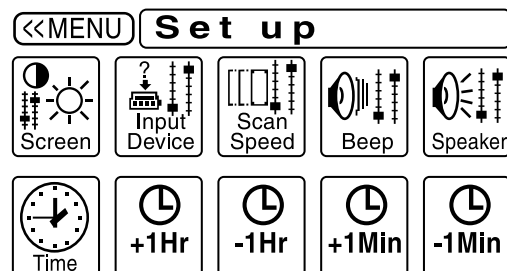


Figure 5. Setup Menu

## Changing the Screen Brightness and Contrast

1. Select the **SETUP** icon (usually located on the main menu screen).
2. Select the **SCREEN** icon.
3. Select one of the following options:
  - **ON** Sets the backlight so that it is always on when the Q-Controls unit is active
  - **DIM** Sets the backlight so that it is always off
  - **AUTO** Allows the Q-Controls to assess the light level and use the backlight automatically
  - **DARKER** Increases the contrast between light and dark regions
  - **LIGHTER** Decreases the contrast between light and dark regions



The incremental changes for the contrast settings (**DARKER** and **LIGHTER**) are small and you may need to repeatedly select the icons to change the screen display noticeably.

4. Navigate back to the main menu.

## Changing the Scan Speed

If the highlighter is moving too fast or too slow, you can change the scan speed.

1. Select the **SETUP** icon (usually located on the main menu screen).
2. Select the **SCAN SPEED** icon.
3. Select one of the following options:
  - **SLOWEST** highlights each icon for 1.2 seconds
  - **SLOW** highlights each icon for 1.0 seconds
  - **MEDIUM** highlights each icon for 0.8 seconds
  - **FAST** highlights each icon for 0.6 seconds
  - **FASTEST** highlights each icon for 0.4 seconds

4. Navigate back to the main menu.



**NOTE:** As your proficiency using the Q-Controls improves, or your condition changes, you may find that the preset scan speeds no longer cover your range of abilities. In these circumstances, your Pride dealer can adjust the values of the five scan speeds to provide a more suitable range.

## Changing the Sound Level of the Beep

Your Q-Controls unit can be set up to “beep” each time it highlights an icon during a scan, and when you select an icon. When you select one of the options below, the Q-Controls unit responds with the selected “beep” volume.

1. Select the **SETUP** icon (usually located on the main menu screen).
2. Select the **BEEP** icon.
3. Select one of the following options:

- OFF
- QUIET
- MEDIUM
- LOUD
- MAX

4. Navigate back to the main menu.

### Changing the Alarm Volume

1. Select the **SETUP** icon (usually located on the main menu screen).
2. Select the **SPEAKER** icon.
3. Select one of the following options:

- OFF



**NOTE:** This setting disables the alarm. To reactivate the alarm, re-select the OFF icon so you are able to notify others in case of an emergency.

- QUIET
- MEDIUM
- LOUD
- MAX

4. Navigate back to the main menu.

### Changing Clock Settings

1. Select the **SETUP** icon (usually located on the main menu screen).
2. Select the **TIME** icon. The time will then be displayed in the status box.
3. Select one or more of the following options:

- **+1HR**      Advances the time by one hour
- **-1HR**      Reduces the time by one hour
- **+1MIN**     Advances the time by one minute
- **-1MIN**     Reduces the time by one minute

4. Repeat step four until the time is correct.
5. Navigate back to the main menu.

## **FREQUENTLY ASKED QUESTIONS**

### **Why can't I see the Q-Controls screen in the dark?**

In the dark, there is a backlight to light the screen up. The controller must have the backlight setting under the screen menu set to **AUTO** or **ON** for this to happen. See page 12 of this manual for instructions.

### **Why are there are blank icons on the TV/Video/CD/DVD menu screen?**

Blank icons indicate that your appliance does not have some of the functions that are on the standard menu screen. The blank icons can be removed or swapped for other functions by your supplier. Ask them to do this when they configure the system for you.

### **Can the screen layout on the Q-Controls unit be customized?**

Yes. However, the screens are programmed and arranged using software provided to trained service providers and approved dealers. You should contact the Pride dealer that you purchased the equipment from if you want the screen layout to be changed.

### **What is a macro and why would I use it on the Q-Controls unit?**

A macro is a single icon on your Q-Controls unit that performs a number of functions. For example, you could use one macro (icon) to turn all the lights off at night, check that the front door is locked, and check that all the curtains are closed.

### **Can the Q-Controls system learn infrared codes?**

No, the Q-Controls system uses infrared codes contained within the pre-installed software. These codes enable the Q-Controls system to replicate a greater number of infrared codes than a learning system would allow.

### **What is the range of the infrared signals?**

Infrared signals will usually work from one end of a room to another, but the Q-Controls unit and the target appliance need to be in line of sight of each other.

### **What is the range of the radio signals?**

Up to 109 yards (100 meters) in unobstructed space and 33 yards (30 meters) indoors.

### **Can I extend the radio range somehow?**

Yes. The radio signals can be relayed between some additional Q-Controls radio devices such as the Link Module and IntelliSocket. The IntelliSocket would pass the signal on to the next device and so on until the required appliance was found.

### **Does my Q-Controls unit operate only my appliances?**

For radio controlled appliances, yes. Radio signals can be coded to ensure only you operate your appliances. However, any infrared controlled appliances such as TVs and videos can be controlled by your Q-Controls unit.

## NOTES

# QUANTUM REHAB

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## Basic Operation Instructions

[www.quantumrehab.com](http://www.quantumrehab.com)  
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