



4-channel surveillance controller



Thank you for purchasing your 4-Channel Surveillance Controller from RadioShack. Your controller lets you use as many as four indoor/outdoor security cameras, a TV or monitor, and your VCR (none supplied) as a fully functional surveillance system. It is designed to provide black and white or color camera observation systems at your home or workplace. And, you can even set up the controller so the VCR records only when the cameras detect motion using the PIR (passive infrared) feature.

Its features include:

- 4-Channel Input of Camera – lets you connect up to 4 cameras to the controller.
- On-Screen Setup – lets you set the PIR, alarm, scan time, alarm time, dwell time, remote learn, and clock's date and time on the menu using the TV/monitor's display.
- Automatic VCR Record – automatically activates when PIR has been triggered.
- Intercom Function – enables 2-way communication between cameras and your controller (through TV/monitor speaker).
- Auto and Manual Scan Function – automatically scans and displays each channel after you power the controller each time, and you also can scan the channels manually.
- Inline Audio Buzzer Warning – activates the buzzer when the unit is triggered if you set the alarm on.

what's included

- | | |
|------------------------|---------------------|
| 4-Channel Controller | IR (infrared) cable |
| 6-foot connector cable | 15V AC adapter |

connecting your controller

You can power the controller using the supplied 15V, 850mA AC/DC adapter.

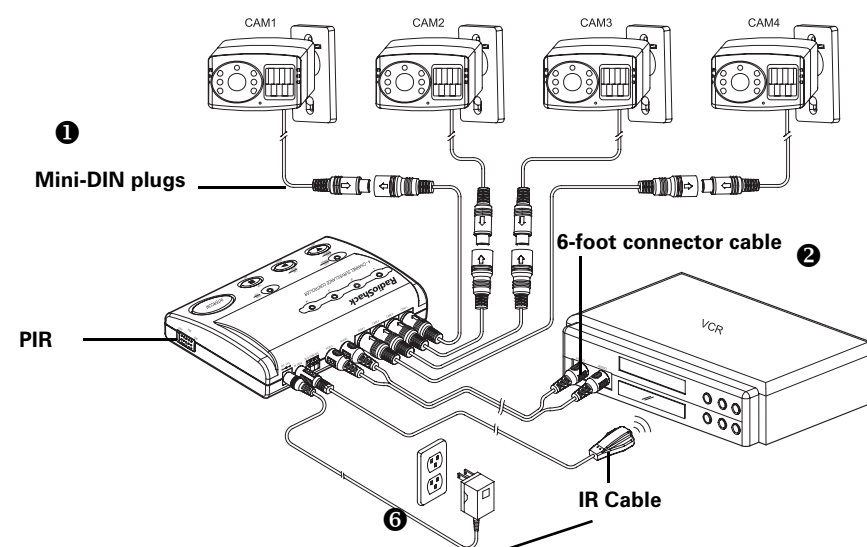
Notes

- Always connect the adapter to your controller before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the controller.
- The **AUTO/MANUAL** indicator lights when you power the controller. The unit automatically enters the auto-scan mode and sounds two beeps after you complete the connection.

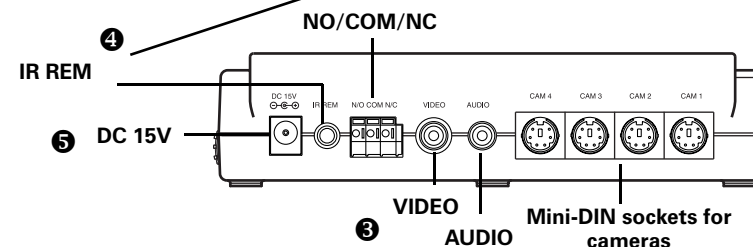
- 1 Connect your cameras' mini-DIN plugs into the mini-DIN sockets CAM1, CAM2, CAM3, and/or CAM4 on the back of the controller.
- 2 Connect the yellow stereo phono plug at one end of the supplied 6-foot connector cable to the video input jack of your VCR, and connect the white stereo phono plug of the cable to the audio input jack of your VCR.
- 3 Connect the yellow stereo phono plug at the other end of the connector cable to VIDEO on the back of the controller, and connect the white stereo phono plug to AUDIO on the back of the controller.
- 4 Plug the supplied IR cable to IR REM jack on the back of the controller and lead the IR cable to the front of the VCR at a distance of 5 to 30 cm. Make sure the IR transmitter is directly pointing to the VCR's sensor.
- 5 Connect the supplied 15V AC adapter into the DC 15V jack on the back of the controller.
- 6 Then, connect it to a standard AC outlet.

Caution

You must use a Class 2 power source that supplies regulated 15V DC and delivers at least 850 mA. Its center tip must be set to positive and its plug must fit the controller's DC15V jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the controller or the adapter.



Rear view of controller

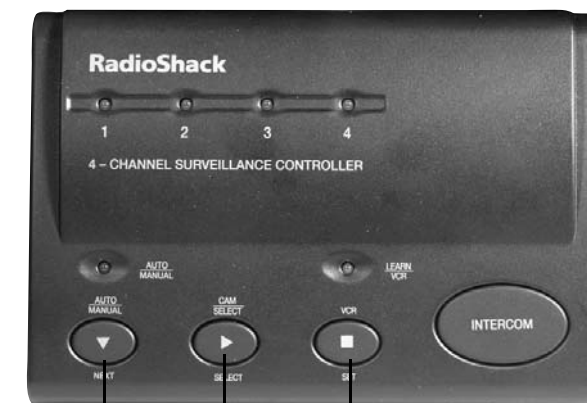


setting up your controller's display

You can set the **PIR** mode, alarm, scan time, alarm time, dwell time, remote learn, and clock's date and time on the menu using the TV/monitor's display.

Turn on the TV/monitor and set it to the video mode (or the VCR's RF output channel). Then, set the VCR to the Audio/Video input mode.

- 1 Press and hold **▼/AUTO/MANUAL/NEXT** for about two seconds. The controller beeps and the setup menu appears on the TV/monitor's display.
- 2 Repeatedly press **▼/AUTO/MANUAL/NEXT** to select the row you want to set.
- 3 Repeatedly press **▶/CAM/SELECT/SELECT** to select one function of the row you want to set.
- 4 Repeatedly press **■/VCR/SET** to set the function.
- 5 Repeatedly press **▼/AUTO/MANUAL/NEXT** to select Exit and press **■/VCR/SET** to exit the menu after you complete the setting.



▼/AUTO/MANUAL/NEXT ▶/CAM/SELECT/SELECT ■/VCR/SET

Turning the PIR Sensor On/Off

You can turn the **PIR** sensor on the camera on or off. If you are going to use the system as surveillance only, you might want to turn the **PIR** sensor function off.

Repeatedly press **NEXT** to select **PIR** and press **SELECT** to select **ON** or **OFF**. Then press **SET** to enter the setting into the controller's memory.

Proceed to other menu setting, or repeatedly press **NEXT** to select Exit and exit the menu mode.

Turning the Alarm On/Off

The controller's built-in alarm sounds when a camera's PIR sensor is triggered. You might want to turn the built-in alarm off when you connect the other alarm device to the controller.

Repeatedly press **NEXT** to select **Alarm**. Then, press **SET** to enter the setting into the controller's memory.

Proceed to other menu setting, or repeatedly press **NEXT** to select **Exit** and exit the menu mode.

programming remote learn

programming remote learn

You can program your controller with 2 to 8 codes used by your VCR's remote control, and then set it so it transmits these codes to your VCR when a connected camera receives a PIR alert.

- 1 Place and point the VCR's remote control window directly at the controller's IR window within a distance of 30cm (1 foot).
- 2 Press and hold **▼/AUTO/MANUAL/NEXT** for about two seconds. The controller beeps and the setup menu appears on the TV/monitor's display.
- 3 Repeatedly press **▼/AUTO/MANUAL/NEXT** to select the Remote Learn on the menu. **LEARN/VCR** flashes quickly. The remote learn function is activated, and the controller checks for IR codes. If it does not receive any IR codes after 10 seconds, the controller exits from remote learn mode and **LEARN/VCR** turns off.
- 4 Press the key on your VCR's remote control you want the controller to learn. If the controller learns the IR code, it beeps and **OK** appears on the display. **LEARN/VCR** flashes quickly if the controller is ready to learn the next command.
- 5 To exit the controller's programming mode, repeatedly press **AUTO/MANUAL/NEXT** until the cursor moves next to Exit. Then press **■/VCR/SET**.

- If you do not press another button on your remote control or if you try to program more than 8 VCR functions, the controller beeps and automatically exits from the Remote Learn mode after about 10 seconds.
- Make sure you point your IR transmitter to the VCR's sensor window directly. If your VCR does not respond, please try again.
- You can set the IR codes from 2 to 8.
- **ERR** appears on the display when there is an error. The controller beeps for about two seconds and exits from the Remote Learn mode. Repeat step 3 to try again.

To test your learned code, press and hold **■/VCR/SET** for about two seconds. The controller immediately sends out the IR command to the VCR.

Notes

setting your controller's time

setting the scan time

Your controller is preset to stay on each camera for a fixed period, and then switch to the next camera. To change the scan time, do the following:

- 1 Repeatedly press **NEXT** to select Scan Time.
- 2 Press **SET** to enter the setting into controller's memory.
- 3 Proceed to other menu setting, or repeatedly press **NEXT** to select "Exit" to exit the menu mode.

setting the alarm time

You can set the time the alarm sounds between three and 30 seconds, in one-second increments. The **N.O./N.C.** terminal output also is controlled by this setting.

- 1 Repeatedly press **NEXT** to select Alarm Time.
- 2 Press **SET** to enter the setting into the controller's memory.
- 3 Proceed to another menu setting, or repeatedly press **NEXT** to select Exit and exit the menu mode.

setting the recording time of the VCR

Use this menu to set the time period your VCR records when the PIR sensor is activated.

- 1 Repeatedly press **NEXT** to select Dwell Time.
- 2 Press **SET** to enter the setting into the switchbox's memory.
- 3 Proceed to other menu setting or repeatedly press **NEXT** to select Exit and exit the menu mode.

For operation with the VCR, see **Setting Your VCR to Record**.

setting the clock

Set the built-in clock for recording with the VCR.

- 1 Repeatedly press **NEXT** to select Set Clock.
- 2 Repeatedly press **SELECT** to choose 12 hour or 24 hour format. Then, repeatedly press **SET** until the correct month appears.
- 3 Press **SELECT** repeatedly to choose date, year, hour, minute and press **SET** to set the correct digit.
- 4 Proceed to another menu setting, or repeatedly press **NEXT** to select Exit and exit the menu mode.

using your controller

setting your VCR to record

- 1 Press **■/VCR/SET** to enter VCR mode. **LEARN/VCR** lights.
- 2 The controller starts recording when it receives a signal from avcamera. **Recording** flashes on the upper right corner of the display.
- 3 **LEARN/VCR** flashes slowly and the controller begins to record the camera signals. A triggered signal during the recording may be ignored.
- 4 When record time is finished, the controller automatically stops recording. **Recording** disappears from the display.

The VCR mode is still activated, and the controller will automatically record again when the triggered signal is received the next time.

Notes

You must select the camera channel(s) to record, and make sure the channels are connected to cameras. The corresponding channels' PIR function must be set to **ON** in the setup menu first.

using the N/O, N/C trigger mode

The N/O and N/C terminal will be triggered when it receives a triggered signal from a camera and the controller alarms at the same time. The triggering period corresponds to the alarm time by the setting in the Setup menu.

N/O and N/C terminals



using the scan function

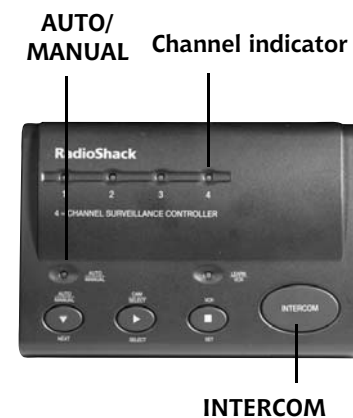
The controller is preset to automatically scan all connected cameras for three seconds.

Press **▼/AUTO/MANUAL/NEXT** to toggle between Auto-Scan and Manual-Scan mode. The **AUTO/MANUAL** indicator lights when the controller is in the Auto-Scan mode.

In the Manual-Scan mode, repeatedly press **▶/CAM/SELECT/SELECT** to select camera channels 1 to 4. The corresponding channel indicator lights when you select the channel.

using the intercom

You can talk with the person near a camera using the intercom function. To talk to someone near a camera, press and hold **INTERCOM** on the controller. Speak into the controller. To listen to the person from your TV or monitor speaker, release **INTERCOM**.



the FCC wants you to know

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 your local RadioShack store or an experienced radio/TV technician for help.

If you cannot eliminate the interference, the FCC requires that you stop using your phone. Changes or modifications not expressly approved by RadioShack may cause interference and void the user's authority to operate the equipment.

care and maintenance

Keep the controller dry; if it gets wet, wipe it dry immediately. Use and store the controller only in normal temperature environments. Handle the controller gently and carefully. Do not drop it. Keep the controller away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new. Modifying or tampering with controller's internal components can cause a malfunction and might invalidate its warranty. If your controller is not performing as it should, take it to your local RadioShack store for assistance.

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	 WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.	
 The lightning symbol is intended to alert you to the presence of un-insulated dangerous voltage within this product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.	
 The exclamation symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.	

limited go-day warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. For complete warranty details and exclusions, check with your local RadioShack store.

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04/04



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