



Installation and User's Guide

SMART Audio System 240



Product Registration

If you register your SMART product, we'll notify you of new features and software upgrades.

Register online at www.smarttech.com/registration.

Keep the following information available, in case you need to contact Technical Support:

Serial Number	
Date of Purchase	

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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.

You can determine whether the equipment is causing interference by disconnecting it from your computer. If the interference stops, it was probably caused by the equipment.

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Patent Nos. US6320597; and US6326954. Other patents pending.

Important Information

Read this installation and user's guide carefully before installing and using your SMART Audio 240 system. This guide describes the proper installation and operational procedures that will keep you safe from harm and prevent damage to the system.

Safety Warnings

WARNING



- Failure to follow the installation instructions shipped with your SMART Audio 240 system or adhere to the following procedures could result in personal injury and/or damage to the product.
- Ensure that you bundle and mark cables extending across the floor to your SMART Audio 240 system to avoid a trip hazard.
- To reduce the risk of fire or electric shock, do not expose the SMART Audio 240 system to rain or moisture.
- Do not open or disassemble the SMART Audio 240 system. Opening the casing voids your warranty.
- Do not turn on the receiver until all the speaker cables are connected to the speakers.
- You must secure each ceiling speaker using a safety strap or cable that conforms to your local safety codes.
- Only recharge the batteries included with your SMART Audio 240 system.

Other Precautions

Do not expose the SMART Audio 240 system to excessive levels of dust, humidity or smoke.

To reduce the chance of the microphone batteries leaking:

- Only recharge the batteries included with the SMART Audio 240 system. Do not recharge alkaline batteries.
- · Use only AA batteries.
- · Do not mix new and used batteries.
- Orient the batteries' positive and negative terminals so that they match the positive and negative markings in the battery compartment.
- Do not store batteries in the microphones for an extended period of time.
- Do not heat, disassemble or short the batteries, or expose the batteries to fire or high temperatures.
- If the batteries do leak, avoid eye and skin contact with the batteries and the leaked material.
- Dispose of exhausted batteries and product components in accordance with the regulations for where you live.

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Introduction

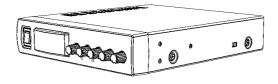
The SMART Audio 240 system amplifies the teacher's voice so that students who sit in the back of your classroom hear you as clearly as those who sit in the front. The audio system makes speaking to the class more comfortable because you don't need to strain your voice to get your students' attention.

Your SMART Audio 240 system includes the following items:

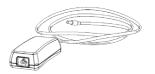
- one receiver
- one power supply
- one teacher microphone with lanyard (lanyard not shown)
- one handheld student microphone
- · two microphone chargers
- four rechargeable batteries (not shown)
- one ceiling infrared sensor
- · four wall or ceiling speakers

Receiver

Your SMART Audio receiver has two microphone channels so that you can use the teacher microphone and the handheld student microphone at the same time. It has two audio line inputs that allow you to connect an external audio device like a CD player, DVD player, computer, TV or VCR. You can record audio on your computer or other devices.



Each microphone channel and external audio device line has a volume control so that you can blend softer and louder speaking voices with audio from external devices. You can change the audio tonal quality by adjusting the tone dial on the receiver.



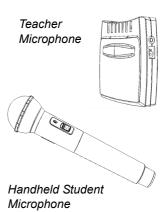
There's an infrared sensor on the front of the receiver that detects the microphones' infrared signal. You can use either the infrared sensor on the receiver or up to three external ceiling sensors.

Receiver's Power Supply

Microphones

Your SMART Audio system includes a teacher microphone and a handheld student microphone. You can attach the included lanyard to the teacher microphone and wear it around your neck. You can use the handheld student microphone when team teaching, or you can pass it to students and allow them to participate in lesson activities.

These microphones have power and channel selector switches. The battery indicator light glows green when the batteries are fresh and glows red when the batteries need to be recharged or replaced.

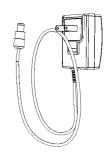


There are transmitters on the microphones that transmit an infrared signal. To ensure optimal performance, don't cover or block the infrared transmitters. There must be a clear line of sight between the microphones and the infrared sensor in order for the audio system to work properly.

Microphone Chargers

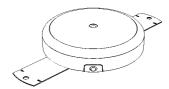
If you use the included rechargeable batteries, you can recharge the microphones by connecting a microphone charger when the battery indicator light changes from green to red.

Fully charged batteries last approximately eight hours in the teacher microphone. For the handheld student microphone, fully charged batteries last approximately six hours when you set it to **High** and approximately nine and a half hours when you set it to **Low**. It takes approximately eight hours to fully recharge the batteries.



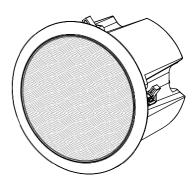
Infrared Sensors

Infrared sensors detect microphone signals and send them to the receiver. You can use either the infrared sensor on the front of the receiver or the infrared sensor for the ceiling. Ensure that there is a clear line of sight between the infrared sensor and the infrared transmitter on the microphones.



Speakers

Your SMART Audio system comes with four wall or ceiling speakers. The speakers mute if the signal from the microphones is blocked or weak. This prevents unwanted static and noise from occurring.



Ceiling Speaker



Wall Speaker

Installing Your SMART Audio 240 System

This chapter helps you plan your installation and describes the installation process for your SMART Audio 240 system.

Chapter Contents

- Additional Items You Need (page 5)
- Determining the Best Location for Your SMART Audio System (page 6)
- Installing the Receiver (page 8)
- Installing the Ceiling Infrared Sensor (page 9)
- Installing the Ceiling Speakers (page 10)
- Installing the Wall Speakers (page 12)

Additional Items You Need

You need to purchase the following materials from your local building supply store.

- For the speakers, you need the following:
 - Plenum rated speaker cable
 - The appropriate screws for your wall. For example, purchase wood screws if you have a wood stud wall.
- For the ceiling infrared sensor, you need the following:
 - Plenum rated RG-59 coaxial TV cable with F-type connectors
 - The appropriate screws for your ceiling, if you don't have a drop ceiling.
 - The appropriate safety cables or straps for each speaker that conform to your local safety codes for ceiling speakers.

You also need the following tools:

- · Flat screwdriver
- Phillips® screwdriver
- Ladder
- Power drill and drill bits
- Drywall saw
- Pencil
- Measuring tape
- Pliers
- Wire cutters
- · Carpenter's level

Determining the Best Location for Your SMART Audio 240 System

Before you begin installation, consider the size and shape of your room, and then choose the best location for the receiver, speakers and ceiling infrared sensor.

The Receiver

The receiver is the central control unit of your audio system. Install it into a media rack (not included) with other electronics or in a location that's accessible to the presenter and safe from tampering. See page 7 for more information on installing the receiver infrared sensor.

The Speakers

Your audio system includes either ceiling or wall speakers. You can install the ceiling speakers into drop ceiling tiles and you can install the wall speakers on a wall.

Wall Speakers

You might choose wall speakers for the following reasons:

- You have a ceiling that's too high for speaker installation or for the speakers to be effective.
- You don't have a drop ceiling or your ceiling is made of a material that makes speaker installation difficult.

Install two wall speakers so that they provide audio to the center of the room and install the other two wall speakers so that they provide audio to the back of the room.

NOTE: Audience members who sit in the front of the room can hear the speaker's voice without the aid of speakers.

Ceiling Speakers

You might choose ceiling speakers for the following reasons:

- You have a drop ceiling.
- Your walls are too far from the audience for the speakers to be effective.
- Your walls are made of a material that makes speaker installation difficult.

Install the ceiling speakers so that they're spaced evenly above the audience area.

Audio feedback (a loud, high-pitched sound) occurs when a microphone receives audio from the speakers. To avoid audio feedback, follow these guidelines:

- Install the speakers at a distance far enough away from the area where you use the microphones.
- Lower the receiver's volume if audio feedback occurs.
- Move the microphone away from the receiver if audio feedback occurs.

The Infrared Sensors

You must choose to use either the receiver's infrared sensor or the ceiling infrared sensor. Install one sensor and ensure the following:

- There is a clear line of sight between the infrared sensor and the infrared transmitter on the microphones.
- There are no wall or ceiling features, vents, projectors or other obstacles that block the sensor.

NOTES

- Direct sunlight can interfere with infrared signals. Position the sensors in areas that are shaded from direct sunlight.
- Sources of infrared light can interfere with the microphones' infrared signal.

Receiver Infrared Sensor

You might choose to use the receiver's infrared sensor for the following reasons:

- You're using the microphones close to the receiver.
- · There are no obstacles blocking the front of the receiver.

Position the receiver in front of the room so that it faces the back of the room. If you're using the receiver infrared sensor, install the receiver high enough above the heads of the audience and other obstacles to ensure a clear line of sight with the infrared transmitters on the microphones.

Ceiling Infrared Sensor

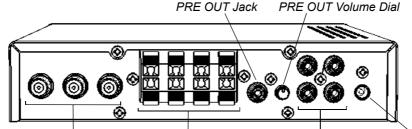
You might choose to use the ceiling infrared sensor for the following reasons:

- You're not using the microphones close to the receiver.
- · There are obstacles that block the front of the receiver.

Install the ceiling infrared sensor on the ceiling in a central location or above the area where you use the microphones.

Installing the Receiver

Refer to the following diagram as you connect the cables to the receiver.

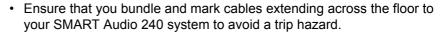


External Infrared Sensor Jacks Speaker Terminals Line 1 and 2 Jacks DC 15V 2.7A Jack

To connect the power and speaker cables to the receiver

- 1. Connect the power supply to a power outlet, and then connect it to the **DC 15V 2.7A** jack on the back of the receiver.
- 2. Using a wire cutter, cut the plenum rated speaker cable to the length required to reach one of the speakers.
- 3. Remove approximately 1" (2.5 cm) of cable insulation from both ends of the speaker cable to expose the positive and negative wires.
- 4. Remove approximately 1/2" (1.3 cm) of wire insulation from the positive and negative wires from each end of the speaker cable.
- 5. Connect the positive speaker wire to the positive (red) speaker terminal on the back of the receiver.
- 6. Connect the negative speaker wire to the negative (black) speaker terminal on the back of the receiver.
- 7. Run the speaker wires to the location where you plan to install the speakers.

WARNING





- Do not turn on the receiver until all the speaker cables are connected to the speakers.
- 8. Repeat steps 2-7 for each speaker.

To connect the ceiling sensor cable to the receiver

- 1. Connect one end of the RG-59 cable to one of the three **EXT SENSOR INPUT** jacks on the back of the receiver. Use either input 2 or input 3 if you also want to use the infrared sensor on the front of the receiver.
- 2. Run the RG-59 cable to the location where you want to install the ceiling sensor.

WARNING



Ensure that you bundle and mark cables extending across the floor to your SMART Audio 240 system to avoid a trip hazard.

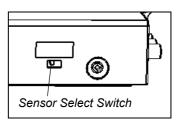
To select the ceiling or the receiver infrared sensor

 If you've connected an external sensor to EXT SENSOR INPUT 1, set the SENSOR SELECT switch on the side of the receiver to EXT. This disables the infrared sensor on the front of the receiver.

OR

If you haven't connected an external sensor to EXT SENSOR INPUT 1, set the ${\bf SENSOR}$ SELECT switch on the side of the

receiver to **INT**. This disables the EXT SENSOR INPUT 1 connection on the back of the receiver.



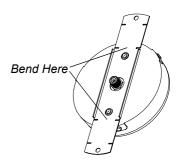
Installing the Ceiling Infrared Sensor

To attach the ceiling infrared sensor to a drop-ceiling tile

- 1. Remove the ceiling tile that you want to attach the sensor to.
- Remove the two screws that attach the sensor's mounting bracket to the ceiling sensor, and then detach the bracket.
- 3. Place the bracket on the ceiling tile you removed, and then mark two screw holes and the center hole with a pencil.
- 4. Remove the bracket from the tile, and then drill the two screw holes and the 1" (2.5 cm) center hole using a power drill.
- 5. Position the sensor on the underside of the tile so that the screw holes align with the scew holes in the tile, and that the F-type cable connector aligns with the center hole.
- 6. Position the mounting bracket on the other side of the tile, and then tighten the two bracket screws through the bracket, tile and bracket screw holes in the sensor.
- 7. Connect the RG-59 cable to the F-type jack on the ceiling sensor.
- 8. Replace the ceiling tile in the ceiling grid.

To attach the ceiling infrared sensor to a solid ceiling

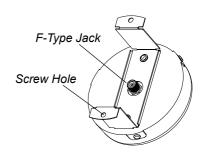
1. Use a pair of pliers to bend up the mounting bracket 90° at the points shown in the diagram.



2. Use a pair of pliers to bend flat the ends of the mounting bracket 90° at the points shown in diagram.



3. Connect the RG-59 cable to the F-type jack on the ceiling sensor.



4. Tighten two screws through the mounting bracket screw holes and into the ceiling using the appropriate screws for your ceiling.

Installing the Ceiling Speakers

Complete the following procedures for each ceiling speaker.

To prepare a drop-ceiling tile for installation

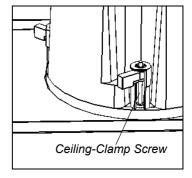
- 1. Remove the ceiling tile that you want to install the ceiling speaker into.
- 2. Mark the center of the ceiling tile with a pencil.
- 3. Draw a circle 8 3/16" (20.8 cm) in diameter around the center mark on the tile with a pencil.
- 4. Cut out the circle with a drywall saw.
- 5. Replace the ceiling tile in the ceiling grid.

To attach a ceiling speaker to the ceiling tile

- 1. Remove the speaker's grille with a flat screwdriver.
- 2. From beneath the ceiling, insert the speaker through the hole you cut in the ceiling tile.
- While holding the speaker in place, tighten the four ceiling-clamp screws with a Phillips screwdriver.

The ceiling clamp on the back of the speaker clamps the speaker to the ceiling tile.

NOTE: You can order an optional ceiling tile reinforcement plate. Contact your local SMART reseller for more information.



4. Press the speaker grille against the face of the speaker to attach it to the speaker.

To attach the speaker cables to the ceiling speaker

1. Run the speaker wires from the receiver into the ceiling and to the ceiling speaker.

WARNING



Ensure that you bundle and mark cables extending across the floor to your SMART Audio 240 system to avoid a trip hazard.

- 2. Connect the positive cable to the speaker's positive (red) terminal.
- 3. Connect the negative cable to the speaker's negative (black) terminal.

To attach the ceiling speaker's safety strap or cable

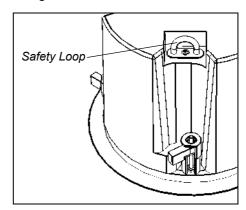
WARNING



- Failure to follow the installation instructions shipped with your SMART Audio 240 system or adhere to the following procedures could result in personal injury and/or damage to the product.
- You must secure each ceiling speaker using a safety strap or cable that conforms to your local safety codes.

Complete the following steps for each ceiling speaker.

- 1. Remove the ceiling tile next to the tile where you installed the ceiling speaker.
- 2. Use a ladder to climb partly into the opening in the ceiling.
- 3. Securely attach the safety strap or cable to the speaker's safety loop.



- 4. Securely attach the safety strap or cable to a permanent and sturdy ceiling structure so that the setup conforms to your local safety codes.
- 5. Tighten the safety strap or cable so that it's snug, there's no slack and the setup conforms to your local safety codes.

Installing the Wall Speakers

Complete the following procedures for each wall speaker.

To attach a wall speaker to the wall

- 1. Place the wall speaker's mounting bracket on the wall where you want to install the speaker.
- 2. If you're attaching the speaker to a stud wall, use a carpenter's level to straighten the bracket on the wall, and then tighten two screws appropriate for the stud through the bracket's screw holes and into the stud.

OR

If you're attaching the speaker to a cinder block wall, use a carpenter's level to straighten the bracket on the wall, and then trace the two screw holes with a pencil.

- a. Remove the mounting bracket and drill screw holes with a power drill.
- b. Using a carpenter's level to straighten the bracket on the wall, tighten two concrete mounting screws through the bracket's screw holes and into the wall.
- 3. Pull down on the bracket to test that the mounting bracket is secure.
- 4. Place the speaker between the two arms of the mounting bracket.
- 5. Tighten the two bracket bolts through the arms of the bracket and into the speaker.
- 6. Gently pull on the speaker to test that the speaker is secure in its bracket.

To attach the speaker cable to the wall speaker

1. Run the speaker wires from the receiver to the wall speaker.

WARNING



Ensure that you bundle and mark cables extending across the floor to your SMART Audio 240 system to avoid a trip hazard.

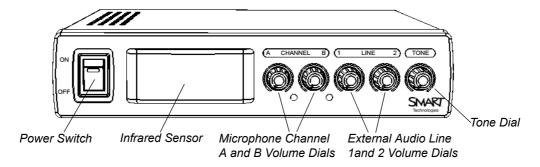
- 2. Connect the positive cable to the speaker's positive (red) terminal.
- 3. Connect the negative cable to the speaker's negative (black) terminal.

Using Your SMART Audio 240 System

This chapter describes how to use your audio system.

Using the Receiver

The following diagram shows you the different controls on the front of the receiver.



- Turn the power on or off with the POWER switch.
- Use the **CHANNEL A** and **B** dials to adjust the microphones' volume.
- Use the **LINE 1** and **2** dials to adjust the volume of external audio devices.
- Use the **TONE** dial to adjust the tone.

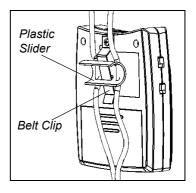
Using the Microphones

To use the teacher microphone

1. Remove the battery compartment cover, install the included AA batteries, and then replace the cover.

NOTE: Ensure that the polarity of the batteries matches the polarity marked in the battery compartment.

- 2. Turn on the receiver's power switch.
- 3. Turn on the teacher microphone's power switch.
- 4. Set the teacher microphone's channel switch to **Channel A**.
- 5. Attach the lanyard's plastic slider to the teacher microphone's belt clip, place the lanyard around your neck and adjust the strap so that the microphone is 6" from your mouth.



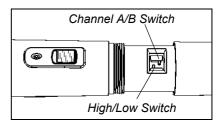
Begin speaking, and then adjust the CHANNEL A volume dial on the receiver to a comfortable level.

To use the handheld student microphone

 Remove the battery cover by twisting the lower section of the microphone counter-clockwise, and then install the included AA batteries.

NOTE: Ensure that the polarity of the batteries matches the polarity marked in the battery compartment.

- 2. Turn on the receiver's power switch.
- Set the channel switch on the handheld student microphone to Channel B.



4. Set the High/Low switch on the handheld student microphone to **Low**.

NOTES

- If the microphone and sensor infrared connection is intermittent, you can set the High/ Low switch to High.
- The **High** setting increases the power of the infrared signal transmitted from the microphone and uses more battery power than the **Low** setting.
- 5. Replace the battery cover.
- 6. Begin speaking at a comfortable volume and keep the microphone under your chin and close to your mouth.

To charge the microphones

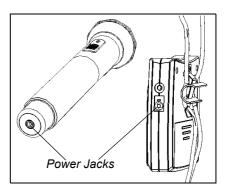
1. Connect the microphone charger to a power outlet.



WARNING



- Do not connect the receiver's power supply to the microphones. Only use the microphone chargers to recharge the teacher microphone and the handheld student microphone.
- Recharge only the batteries included with your SMART Audio 240 system.
- 2. Connect the charger's plug to the microphone's power jack.



Using External Audio Devices

You can use your audio system with a CD player, an MP3 player and a DVD player.

To use a CD, MP3 or DVD player, or other audio device, with your audio system

- Set up the external audio device. Refer to the device's documentation for more information
- 2. Connect an RCA cable to the left and right audio output jacks on the audio device.

NOTE: If your audio device only has a 3.5 mm stereo mini jack, use a dual (left and right) RCA to 3.5 mm stereo adapter.

Connect the other end of the RCA cable to the LINE 1 left and right jacks on the back of the receiver.

NOTE: There are two sets of audio input jacks on the back of the receiver. You can connect a second audio device by connecting it to the **LINE 2** jacks on the back of the receiver

- 4. Start the external audio device.
- 5. Adjust the **LINE 1** volume dial to a comfortable level.

NOTE: You can also adjust the volume with the volume control on the audio device.

Recording Audio with SMART Notebook Software

SMART Notebook software allows you to record audio and video to your computer with the SMART Recorder tool. You can reduce in size the video area that you record by selecting the **Record Area...** option. This minimizes the file size of the recording.

To record audio to your computer

- Connect the RCA plug of a mono RCA to 3.5 mm stereo mini adapter to the PRE OUT jack on the back of the receiver.
- 2. Connect the 3.5 mm stereo plug to the audio input of your computer.
- 3. Press the SMART Board software 10 icon or the 9.7 icon in the notification area for Windows® operating systems or in the dock for Mac OS operating system software, and then select **Recorder...** from the list.
 - SMART Recorder appears.
- 4. Select **Record Area...** from the record drop-down list.



5. Draw a small rectangle on the screen.



- 6. When you finish your recording, click **Stop** . The *Save As* dialog box appears.
- 7. Browse to the location where you want to save your recording.
- 8. Type a name for the file in the **File name** box.
- 9. Click Save.

The Recording Complete dialog box appears.

10. Click **OK**.

Troubleshooting Your SMART Audio System

Issue	Solution		
The microphones do not work and the green power light is not lit.	Set the power switch on the receiver to ON.		
	Connect the receiver to a power outlet.		
	Rechargeable batteries eventually stop recharging. Replace the rechargeable batteries with a new set of rechargeable batteries.		
	Replace used alkaline batteries with a new set of alkaline batteries.		
The microphones do not	Turn up the volume dial on the receiver for the correct channel.		
work.	If you're using the teacher microphone and the handheld student microphone at the same time, set the teacher microphone to Channel A and the handheld student microphone to Channel B .		
	Ensure that there's a clear line of sight between the infrared transmitter on the microphones and the infrared sensor.		
	Set the receiver and microphone's power switches to ON and ensure that the power lights are glowing green.		
	Recharge or replace the batteries.		
Audio performance is intermittent.	 Ensure that objects don't block the line of sight between the infrared transmitter on the microphones and the infrared sensors. 		
	If you're using the handheld student microphone, set the High/Low switch to High .		
The microphones have a limited operational range.	If you're using the handheld student microphone, set the High/Low switch to High .		
	Install additional infrared sensors (SMART Part No. 03-00120-20).		

Regulatory Compliance

Waste Electrical and Electronic Equipment Regulations

Waste Electrical and Electronic Equipment regulations apply to all electrical and electronic equipment sold within the European Union.

When you dispose of any electrical or electronic equipment, including SMART products, we strongly encourage you to contact your local WEEE recycling agency for recycling and disposal advice.

Your SMART product required the extraction and use of natural resources for its production. It may contain hazardous substances. By disposing of electrical and electronic equipment appropriately, you lower the impact of these substances upon health and the environment and reduce the pressure on natural resources. Recycling agencies can reuse or recycle most of the materials from your product.

Please think about how you intend to dispose of any product that has a WEEE symbol or accompanying WEEE guidelines.



If you need more information on the collection, reuse and recycling of electrical and electronic equipment, please contact your local WEEE recycling agency.

Alternatively, contact your local reseller or SMART Technologies for information on the environmental performance of our products.

Restriction of Certain Hazardous Substances (RoHS) Directives

SMART Technologies supports global efforts to ensure that electronic equipment is manufactured, sold and disposed of in a safe and environmentally friendly manner.

This product meets the requirements of the European Union's Restriction of Certain Hazardous Substances (RoHS) Directive 2002/95/EC, as well as the People's Republic of China's Control of Pollution Caused by Electronic Information Products (China RoHS).

Subsequently, this product also complies with other, less stringent directives that have arisen in various geographical areas, and that incorporate the European Union's RoHS directive as a basis.

For more information, refer to your local regulations or visit www.smarttech.com.

Customer Support

Online Support

Visit www.smarttech.com/support to view and download user's guides, "how-to" and troubleshooting articles, software and more.

Training

Visit www.smarttech.com/trainingcenter for training materials and information about our training services.

Contacting SMART Technical Support

SMART Technical Support welcomes your call. However, if you experience difficulty with your SMART product, you may want to contact your local reseller first. Your local reseller may be able to resolve the issue without delay.

All SMART products include online, telephone, fax and e-mail support:

Online: www.smarttech.com/contactsupport

Telephone: +1.403.228.5940 or

Toll Free 1.866.518.6791 (U.S./Canada)

(Monday to Friday, 5 a.m. – 6 p.m. Mountain Time)

Fax: +1.403.806.1256

E-mail: support@smarttech.com

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Warranty

Product warranty is governed by the terms and conditions of SMART's "Limited Equipment Warranty" that shipped with the SMART product at the time of purchase.

Registration

To help us serve you, register online at www.smarttech.com/registration.





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