

SMART Audio™ 340

Classroom amplification system

System administrator's and user's guide

Product registration

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

Register online at smarttech.com/registration.

Keep the following information available in case you need to contact SMART Support.

Serial number:

Date of purchase:

FCC warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Patents pending.

07/2012

Important information

WARNING

- Failure to follow the installation instructions shipped with your SMART product could result in personal injury and damage to the product which may not be covered by your warranty.
- To reduce the risk of fire or electric shock, do not expose the SMART product to rain or moisture.
- Ensure that any cables extending across the floor to your SMART product are properly bundled and marked to avoid a trip hazard.
- Do not open or disassemble the SMART product. You risk electrical shock from the high voltage inside the casing. Opening the casing also voids your warranty.
- To reduce the risk associated with leaking batteries:
 - do not leave the battery in the product for an extended period
 - do not heat, disassemble, or short the battery, or expose it to fire or high temperature
 - avoid eye and skin contact if batteries have leaked
 - dispose of exhausted batteries and product components in accordance with applicable regulations
- Do not charge the battery with any power adapter other than the one supplied. Do not charge other battery types in your SMART product with the supplied power adapter. Both of these actions can cause damage to the product and can cause a fire or personal injury.
- If the SMART product becomes excessively warm or emits an unusual smell while the battery is recharging, immediately disconnect the power adapter from the power outlet and turn the product off.
- Do not place items other than your microphone in your microphone charging cradle. Items can create an electrical short leading to product damage, fire or personal injury.
- Ensure your ceiling or ceiling tiles are strong enough to support the ceiling-mounted product components and use tethers if provided or required. Failure to securely install components might lead to components falling which can cause personal injury and product damage that may not be covered by your warranty. Refer to product documentation to find component weights.
- Ensure the installation of your SMART product meets local building codes and regulations.

IMPORTANT INFORMATION

CAUTION

- Avoid setting up and using the SMART product in an area with excessive levels of dust, humidity and smoke.
- If your SMART product requires replacement parts, use replacement parts specified by SMART Technologies or parts with the same characteristics as the original.
- Make sure the electrical socket your SMART product is plugged in to remains easily accessible during use.
- Do not drop the portable components of your SMART product. Dropping your microphone can damage it and void the warranty for that item.
- When connecting product components, ensure cables are connected to correct locations. Incorrectly connected components can result in product damage.
- Do not use your SMART Audio™ classroom amplification system in a facility control system or any other environment that requires extremely high reliability, or where the use of a wireless device can cause interference. The product can interfere with other electronic devices or cause them to malfunction, or other wireless devices may interfere with the product or cause it to malfunction. Where use is prohibited, turn off the product. SMART Technologies does not accept any liability for damages.

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Getting started

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About your SMART Audio classroom amplification system

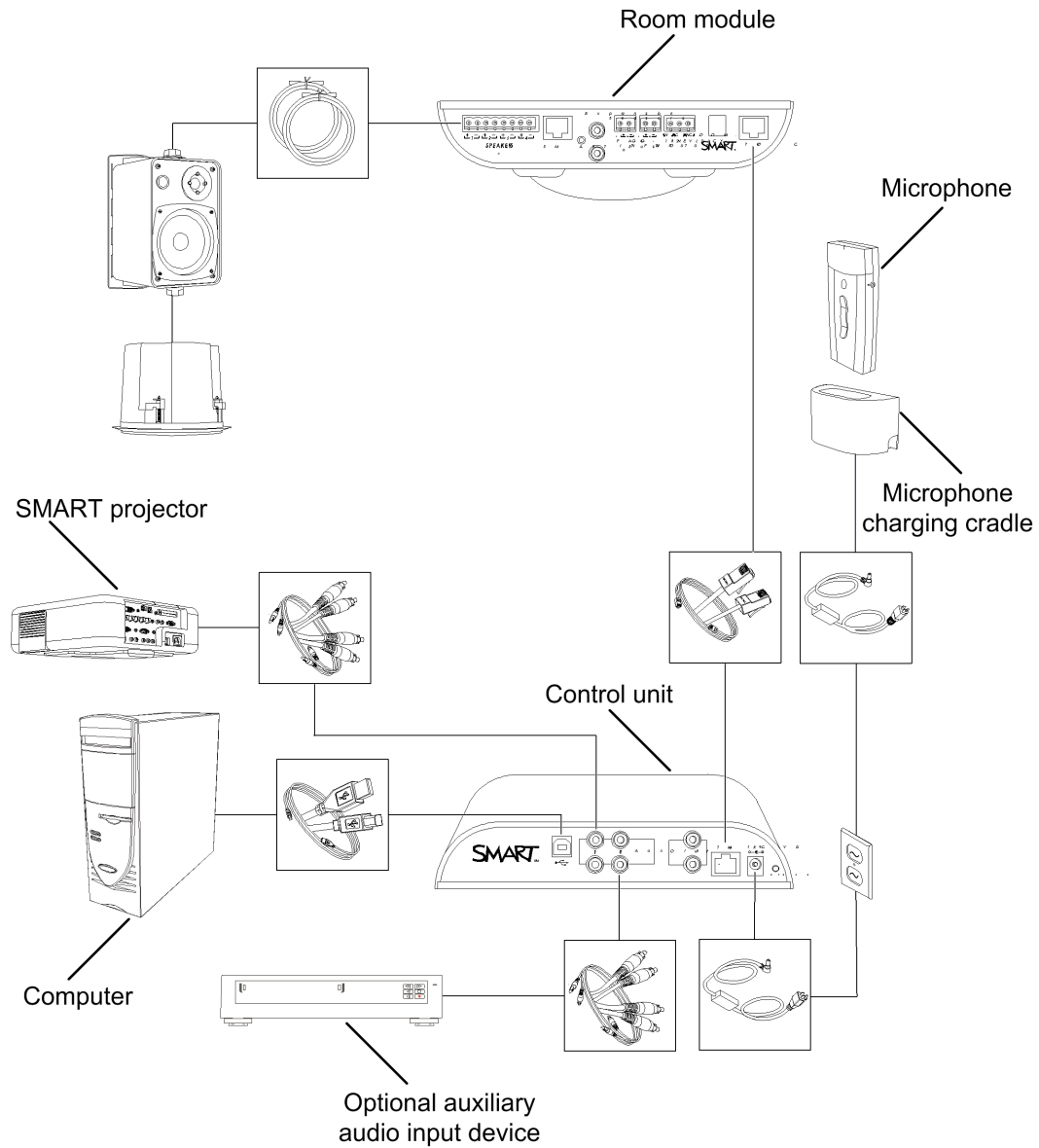
The SMART Audio system amplifies teacher and student voices, reducing teacher vocal strain and ensuring that everyone can clearly hear what is being said from anywhere in the room. The systems include a wireless microphone that either the teacher or students can use, a control unit that provides a USB interface to the computer and a room module that combines an amplifier and an infrared sensor.

Your SMART Audio system features seamless integration with SMART Notebook™ collaborative learning software. Pressing the SMART Audio icon in SMART Notebook software brings up an intuitive user interface that enables educators to control up to five audio inputs with the touch of a finger. Adjusting the volume is quick and simple, saving valuable class time while maintaining lesson flow.

You can order the system with ceiling-mounted or wall-mounted speakers.

Overview of the SMART Audio system

This cabling diagram shows the relationship between all of the components in the SMART Audio system. For more information on installing and cabling your SMART Audio system, see the *SMART Audio 340 Classroom amplification system Installation guide* (smarttech.com/kb/155320).



Physical components

Your SMART Audio system includes the following:

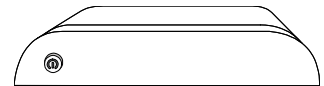
- Control unit and its power supply
- Microphone, sleeve and lanyard
- Microphone charging cradle and its power supply
- Ceiling-mounted room module, infrared sensor and amplifier
- Either four ceiling-mounted speakers or four wall-mounted speakers

Control unit

The control unit is a wall-mounted panel that connects the SMART Audio system to your computer. For more information on using the control unit, see *Using the control unit* on page 9.

The SMART Audio 340 system top view

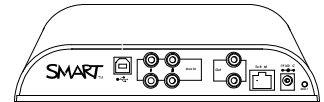
The top of the SMART Audio 340 system includes a Power button.



SMART Audio system bottom view

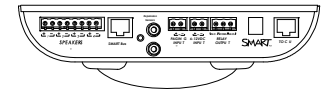
The underside of the control unit has a removable panel. Under the panel are the following:

- USB connection to the computer
- RCA connections for auxiliary input devices such as DVD/Blu-ray players and VCRs
- Connectors for assistive listening devices
- RJ45 connection for the Cat 5e cable to the room module
- System power input
- System Reset button



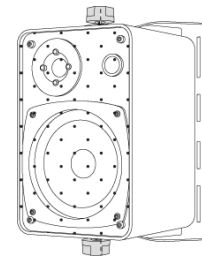
Room module

The ceiling-mounted room module contains the infrared sensor and the speaker amplifiers. It is connected to all of the speakers and to the control unit.



Wall-mounted speakers

The four 30 W wall-mounted speakers receive both power and audio input through speaker wire from the room module.

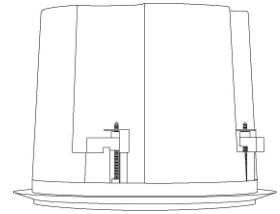


CHAPTER 1

Getting started

Ceiling-mounted speakers

The four 30 W ceiling-mounted speakers receive both power and audio input through speaker wire from the room module.

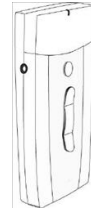


Microphone

Your SMART Audio system transmits an infrared signal by line of sight up to 15' (4.6 m) to a receiver in the room module or an expansion sensor. The microphone has power, volume and mute buttons.

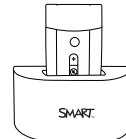
You can connect external wired microphones to the 3.5 mm jack on the side of the microphone.

You can wear it on your belt, hold it in your hands or attach the included lanyard to the microphone and then wear it around your neck. You can also add an auxiliary microphone such as a headset.



Microphone charging cradle

You can charge the microphone in the wall-mounted microphone charging cradle provided with your SMART Audio system



Optional accessories

Part no.	Name	Description
CAS-HSMIC	SMART Audio system wired headset microphone	For hands-free operation, you can use an auxiliary headset microphone or a lavalier microphone that you attach to your collar, tie or other clothing.
CAS-LVMIC	SMART Audio system wired lavalier microphone	
CAS-300-IRMIC	SMART Audio system wireless infrared transmitter microphone	You can use a second microphone as a backup or as a student microphone.
CAS-300-IRSENS	SMART Audio system expansion infrared sensors	You can connect one or two expansion sensors to the room module to increase audio coverage in a large room, or to fill in the blind spots. An expansion sensor includes a 15' (4.5 m) cable.

Using SMART software

Your SMART Audio system operates without additional software. However, the following software could extend your usage of the SMART Audio system.

- SMART Audio software enables you to control your SMART Audio system. You can use it alone or integrated with SMART Notebook software.
- SMART Audio configuration software enables a system administrator to customize the SMART Audio system settings.
- SMART Notebook software enables you to access commonly used audio settings, such as volume control, while teaching at your interactive whiteboard.

You can install SMART software from the included CD, or from the software download page (smarttech.com/downloads).

Choosing audio inputs

You can connect audio inputs from a variety of sources to your SMART Audio system.

Speaking into your microphone

When you speak into your microphone, your voice transmits by infrared signal to the room module or expansion sensors and is broadcast from the speakers. For more information on speaking into the microphone, see *Speaking into the microphone* on page 16.

Playing audio files from your computer

You can play audio or video files on your connected computer, and the audio broadcasts from the speakers.

Connecting an audio input device to your microphone

You can connect an audio input device, such as an auxiliary microphone or portable audio player, directly to the 3.5 mm jack on your microphone. The audio input transmits by infrared signal to the room module or expansion sensors and is broadcast from the speakers. For more information on connecting an audio input device to your microphone, see *Connecting an auxiliary audio input device* on page 16.

Connecting an audio input device to the control unit

You can connect an audio input device, such as a CD player, DVD/Blu-ray™ player or VCR, to the control unit. The audio then broadcasts from the speakers.

CHAPTER 1

Getting started

Connecting an audio input device to your interactive whiteboard

You can connect an audio input device, such as a CD player, DVD/Blu-ray player or VCR, to your interactive whiteboard's External Control Panel (ECP) or Appliance Control Panel (ACP). The audio then broadcasts from the speakers.

Connecting your paging system to the room module

You can connect your existing paging system to the room module. A page then broadcasts from the speakers. You can configure the system to reduce the volume of all other audio input devices when a page is broadcast.

Controlling audio inputs

You can use your microphone to mute or adjust volume of your voice, an auxiliary audio input device or devices connected to the control unit or your interactive whiteboard.

Alternatively, you can use SMART Audio software installed on your computer to control volume.

Chapter 2

Using the control unit

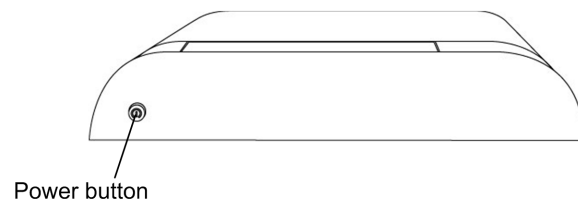
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The control unit has the following roles in your SMART Audio system:

- Provides power to the room module and the speakers through the Cat 5e cable to the room module
- Connects to your computer for audio adjustments using the SMART Audio software

Turning on or turning off your SMART Audio system

Your control unit features a Power button that you can use to turn on and turn off your SMART Audio system, including your room module and speakers.



To turn on or turn off your SMART Audio system

Press the **Power** button on the control unit.

IMPORTANT

The microphone has its own Power button. For more information, see *Turning on and turning off the microphone* on page 15.

Connecting auxiliary audio input devices

You can connect auxiliary audio input devices to the control unit, such as a CD player, DVD/Blu-ray player, VCR or other media device, and then transmit audio from these devices as an alternative to speaking into your microphone.

When your SMART Audio system is turned on, you can control the volume and mute features using the auxiliary input controls, as well as using SMART Audio software, or the microphone.

To connect an auxiliary audio input device

1. Ensure that the audio input device is turned off.
2. Remove the bottom cover from the control unit.
3. Connect two RCA input cables from your audio input device to the **Aux 2** inputs.
4. Replace the cover on the control unit.

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Using the microphone

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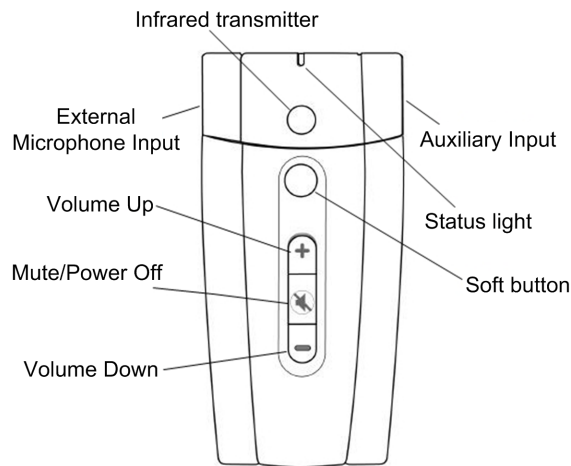
CHAPTER 3

Using the microphone

Introduction

Your microphone uses a line of sight infrared signal to transmit your voice to the room module or an expansion sensor. The maximum distance for this is 15' (4.6 m).

You can recharge the microphone's batteries using the included charging cradle.



Assembling the microphone

Your microphone has a battery, a protective sleeve and a lanyard.

■ To start using your microphone:

1. Install the battery in the microphone (see *Installing or replacing the microphone battery* on the next page).
2. Slide the microphone into the protective sleeve.
3. Connect the lanyard to the microphone, if desired (see *Connecting the lanyard to the microphone* on the next page).
4. Charge the microphone by placing the microphone in the charging cradle (see *Charging the microphone* on page 14).
5. Turn on the microphone (see *Turning on and turning off the microphone* on page 15).
6. Connect the microphone to the room module (see *Connecting the microphone to the room module* on page 15).
7. Adjust the volume (see *Speaking into the microphone* on page 16).

CHAPTER 3

Using the microphone

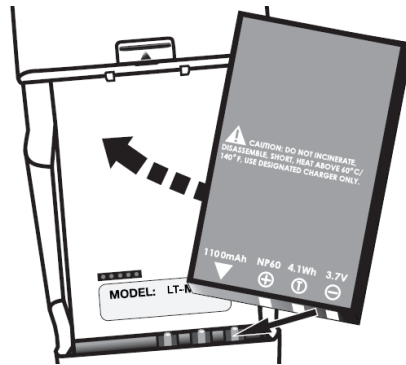
You can add an auxiliary microphone such as a headset, and you can connect an external audio source, such as a handheld audio player, to your microphone. You can also use a second microphone to pass around the class.

Installing or replacing the microphone battery

The microphone uses a replaceable, rechargeable 3.7V lithium ion battery.

To place or replace a battery in the microphone

1. Remove the back panel of the microphone.
2. Remove the old battery, if required.
3. Remove the plastic film from the replacement battery.
4. Insert the replacement battery into the microphone with the label facing out and down.



5. Replace the back panel.

Using the microphone's protective sleeve

The microphone has a protective sleeve. Slide the microphone into the sleeve to reduce audio transfer from tapping the microphone and to protect the microphone from damage.

NOTE

The microphone is more stable if it is charged in its protective sleeve.

Connecting the lanyard to the microphone

The microphone has a lanyard for hands-free use.

To connect the lanyard to the microphone

Slide the lanyard mounting plate into the back of the microphone.

Charging the microphone

You can charge the microphone in the microphone charging cradle or by connecting the included AC power adapter's plug directly to the bottom of the microphone. It takes approximately one hour to charge the microphone.

A full charge provides approximately seven hours of use depending on how frequently you use the microphone, the battery's age and the room temperature.

WARNING

- Do not charge the battery with any power adapter other than the one supplied. Do not charge other battery types in your SMART product with the supplied power adapter. These actions can cause damage to the product and can cause a fire or personal injury.
- If the SMART product becomes excessively warm or emits an unusual smell while the battery is charging, immediately disconnect the power adapter from the power outlet and turn off the product.

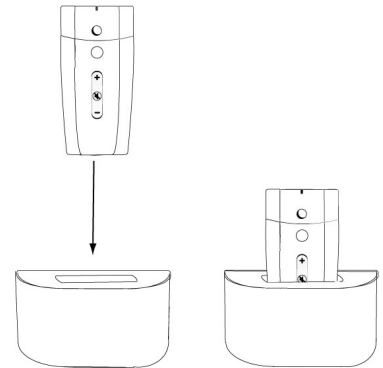
NOTE

The microphone is more stable if it is charged in its protective sleeve. For more information, see *Using the microphone's protective sleeve* on the previous page.

To charge the microphone in the microphone charging cradle

1. Connect the AC power adapter to the microphone charging cradle.
2. Place the microphone in the charger facing out.

The red light flashes when the microphone is charging, and turns solid red when the microphone is fully charged.



Turning on and turning off the microphone

■ To turn on the microphone

Press any button on the microphone.

The microphone status light flashes red, and then turns solid green.



IMPORTANT

If you do not see a light or you see an amber light, see *Troubleshooting using the microphone status light* on page 47.

■ To turn off the microphone

Press the **Mute/Power Off** button for four seconds.

The microphone status light turns off.



TIP

You can set your microphone to turn off automatically when you place it in the microphone charging cradle, and to turn on when you remove it. For more information, see *Customizing your microphone* on page 19.

Connecting the microphone to the room module

When your microphone is connected to the room module or an expansion sensor, the status light is solid green. If the status light is amber or flashing red, the microphone isn't connected.

■ To connect the microphone to the room module

1. Stand within 15' (4.6 m) of the room module or an expansion sensor.
2. Point the microphone's infrared transmitter at the room module or an expansion sensor.
3. Press the **Mute/Power off** button for four seconds to turn off the microphone.
4. Press any button to turn it on again.

Speaking into the microphone

Your microphone transmits your voice up to 15' (4.6 m) to the room module or an expansion sensor.

IMPORTANT

- Hold your microphone so the infrared transmitter faces out.
- If you hear a static sound suddenly, the microphone is either out of range or is pointed against a non-reflective surface. Position your microphone so the infrared transmitter points toward the room module or an expansion sensor.

Adjusting microphone volume

You can increase or decrease the volume of transmission from the microphone, as well as mute and restore volume.

To increase or decrease the microphone volume

Press the **Volume Up** or **Volume Down** button.

To mute or restore the microphone volume

Press the **Mute/Power Off** button.

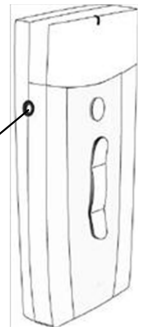
When you mute the microphone, the microphone status light flashes green. When you restore the microphone volume, the microphone status light turns solid green.

Connecting an auxiliary microphone

Your microphone doesn't require an external auxiliary microphone.

However, if you prefer, you can use an auxiliary microphone, such as a wired headset or a lavalier microphone, for hands-free use.

3.5 mm jack
for auxiliary
microphones



To connect an auxiliary microphone

Connect the auxiliary microphone to the 3.5 mm jack on the side of the microphone.

Connecting an auxiliary audio input device

You can also connect an external audio input device, such as a handheld audio player, to your microphone.

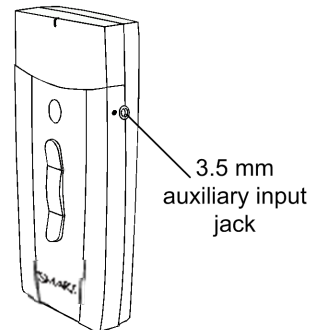
CHAPTER 3

Using the microphone

Use the microphone buttons to adjust the volume of the device that you connected and then you can speak over the device.

■ To connect an auxiliary audio input device

1. Turn on the audio input device, and then reduce the volume on the device.
2. Connect the audio input device output plug to the microphone's 3.5 mm auxiliary input jack.
3. Increase the volume on the audio input device until the audio input device is clearly and comfortably heard over the SMART Audio system.



■ To mute or restore volume for an auxiliary audio input device

Press the **Mute/Power Off** button on the microphone.

The audio input from the device is muted or restored, and the volume of your voice remains the same.

Controlling an auxiliary audio input device from your microphone

You can use the microphone to increase and lower the volume or mute the most recently active audio input device connected to the control unit.

This enables you to decrease or mute the volume, provide commentary, and then return to transmitting audio without returning to your computer or the audio input device.

■ To increase or decrease the volume of an auxiliary audio input device

1. Press the **Mute/Power Off** button on your microphone so that your voice doesn't transmit.
The microphone status light flashes green.
2. Adjust the volume of the device connected to the control unit using the volume control buttons on the microphone.

💡 TIP

You must press a volume button several times before you notice a difference.

■ To mute or restore the volume to an auxiliary audio input device

Press the **Soft** button on your microphone.

The audio input from the device is muted or restored, and the volume of your voice remains the same.

Using a second microphone

You can purchase a second infrared microphone as a back-up or to use as a second microphone. For example, a teacher can use the primary microphone and the students can pass around a second microphone.

TIP

You can set the student microphone so students can't adjust the volume on their microphone or on any auxiliary audio input devices. For more information, see *Setting your microphone to disable volume buttons* on page 20.

Setting up a second microphone

The SMART Audio system microphone can transmit on two channels: channel 1 and channel 2. When you connect a second microphone, you must set it to use the unused channel.

Your microphone mode determines how to set your second microphone to an unused channel.

- In Find Channel mode (default), the microphone chooses an available channel.
- In Assigned Channel mode, the microphone transmits on the channel you assign it.

In Assigned Channel mode, you can set a microphone to transmit on either channel 1 or channel 2.

■ To check the microphone mode

1. If the microphone is turned on, turn it off by pressing the **Mute/Power Off** button for four seconds.
2. Turn on the microphone by pressing any button.
3. Observe the microphone status light.

If the microphone status light flashes red once, the microphone is set to Assigned Channel mode and channel 1.

If the microphone status light flashes red twice, the microphone is set to Assigned Channel mode and channel 2.

To set a microphone to **Assigned Channel mode**

1. Turn off the microphone by pressing the **Mute/Power Off** button for four seconds, and then wait 10 seconds.
2. Press the **Soft** button and the **Mute/Power Off** button for three seconds, and then release the buttons.

The microphone status light flashes red rapidly.

3. If you want to set the microphone to channel 1, press the **Soft** button.

If you want to set the microphone to channel 2, press the **Volume Up** button.

The microphone status light turns solid green.

Customizing your microphone

You can customize your microphone to change some of its settings. For example, you can set your microphone to do the following:

- Only the Mute/Power Off button works and students are unable to adjust the volume while you pass the microphone around.
- The microphone turns off when you place it in a charger and turns on when you remove it.

Setting your microphone to disable volume buttons

You can disable all of the buttons except the Mute/Power Off button. When disabled, students are unable to adjust the volume while you pass the microphone around.

To set your microphone to disable the volume buttons

1. Turn on the microphone.
2. Press the **Soft** button and the **Volume Down** button for five seconds.

The microphone status light flashes red, yellow and green alternately indicating that you're in Local Programming mode.

3. Press the **Mute/Power Off** button for one second to change the state of the Button Disable mode.



IMPORTANT

- Four quick green flashes of the microphone status light indicates that the feature is on and only the mute button works.
- Four quick red flashes of the microphone status light indicates that the feature is off and all buttons work.

4. Press the **Soft** button and the **Volume Down** button for three seconds to exit Local Programming mode.

OR

Wait 30 seconds and the microphone automatically exits Local Programming mode.

Enabling automatic shut off when charging

You can set your microphone to automatically turn off when you place it in the microphone charging cradle and to turn on when you remove it.

To enable automatic shut off when charging

1. Turn on the microphone.
2. Press the **Soft** button and **Volume Down** button for five seconds.

The microphone status light flashes red, yellow and green alternately indicating that you're now in Local Programming mode.

3. Press the **Volume Down** button to change the state for the microphone Automatic On and Automatic Off mode.



IMPORTANT

- Four quick green flashes of the microphone status light indicates that the feature is on and the microphone turns off when in the charger and turns on when removed.
- Four quick red flashes of the light indicates that the feature is off and you must turn on or off the microphone manually.

4. Press the **Soft** button and **Volume Down** button for three seconds to exit Local Programming mode.

OR

Wait 30 seconds and the microphone automatically exits Local Programming mode.


Chapter 4

Using SMART Notebook software to change your settings

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About using SMART software

You can use SMART Notebook collaborative learning software to conveniently control your SMART Audio system from your interactive whiteboard.

After you install SMART Audio software and integrate it with your SMART Notebook software you can then press the **SMART Audio** icon  on the SMART Notebook software toolbar, to do the following:

- Adjust the volume of up to two microphones.
- Mute or adjust the volume of audio files playing on your computer.
- Mute or adjust the volume of audio files playing on connected audio input devices.
- Mute all your audio input devices.
- Adjust the brightness of the speaker tone.

Installing SMART Audio software

Install SMART Audio software from the included CD, or go to the download page (smarttech.com/downloads).

■ To install SMART Audio software (Windows computers)

1. Disconnect the USB cable that connects your computer to your control unit.
2. Insert the included CD in your computer, and then browse to the **SMARTAudioSetup.exe** file.


You can also go to the download page (smarttech.com/downloads), select the SMART Audio software downloads, and then download **SMARTAudioSetup.exe** to your desktop.
3. Double-click the **SMARTAudioSetup.exe** file, and then follow the on-screen instructions.

■ To install SMART Audio software (Mac computers)

1. Disconnect the USB cable that connects your computer to your control unit.
2. Insert the included CD in your computer, and then browse to the **SMART Audio Install.dmg** file.


You can also go to the download page (smarttech.com/downloads), select the SMART Audio software downloads, and then download **SMART Audio Install.dmg** to your desktop.
3. Double-click the **SMART Audio Install.dmg** file, and then follow the on-screen instructions.

Integrating SMART Audio software with SMART Notebook software

If you don't see the SMART Audio icon  on your SMART Notebook software toolbar, you can add it to integrate SMART Audio software with SMART Notebook software.

■ To integrate SMART Audio software with SMART Notebook software

1. Start SMART Notebook software, and then select **View > Customize Toolbar**.


The *Customize Toolbar* window appears.
2. Drag the **SMART Audio** icon  to your SMART Notebook software toolbar.
3. Press **Done**.

Starting SMART Audio software

You can start SMART Audio software by selecting **SMART Audio 2011** from the Start menu (Windows computers) or the Dock (Mac computers).

Alternatively, if you placed the SMART Audio icon in SMART Notebook software, you can use the icon to start SMART Audio software.

■ To start SMART Audio software from SMART Notebook software

1. Start SMART Notebook software, and then press the **SMART Audio** icon  on the toolbar.
SMART Audio software appears.
2. Press **Connect**.

Changing your SMART Audio system settings

Your SMART Audio system settings enable you to adjust input volumes, check your microphone battery level and adjust the brightness of the speaker tone.

Adjusting the volume

Your SMART Audio system mixes all audio inputs from the following sources:

Audio source	Description
Aux 1	The connection from your SMART projector to the control unit, that streams any audio inputs connected directly to your interactive whiteboard
Aux 2	The connection from any audio input device to the control unit
USB Audio	Audio or video files playing on the computer and transmitted to the control unit through the USB connection
Mic 1	The default microphone channel
Mic 2	Secondary microphone channel

TIP

You can rename Aux 1, Aux 2 or USB Audio to a term more descriptive of the audio input. For more information, see *Changing the audio input names and trims* on page 42.

You can adjust the volume of any audio input. You can also mute any or all of the inputs, and then restore their volume later.


CHAPTER 4

Using SMART Notebook software to change your settings


TIP

You can also adjust the volume of inputs at the input source. To adjust the input from the SMART Audio system microphone, see *Controlling an auxiliary audio input device from your microphone* on page 17.


To adjust the volume of an auxiliary audio input device

1. Press the **SMART Audio** icon  on the SMART Notebook software toolbar.
SMART Audio software appears.
2. Slide the input's volume slider up or down for the input.

To mute an auxiliary audio input device

Start SMART Audio software, and then press the un-muted speaker icon  below the input volume slider.


To restore an auxiliary audio input device's volume

Start SMART Audio software, and then press the muted speaker icon  below the input volume slider.

Adjusting the speaker tone

The SMART Audio system enables you to adjust the brightness of the speaker tone.

To adjust the brightness of the speaker tone

1. Press the **SMART Audio** icon  on the SMART Notebook software toolbar.
SMART Audio software appears.
2. Locate the *Speaker Tone* area.
3. Press **High**, **Medium** or **Low**.

Checking your microphone battery level

You can use SMART Audio software to check your microphone battery level.


NOTE

If your microphone battery level is below 10%, the microphone status light flashes red. For more information, see *Troubleshooting using the microphone status light* on page 47.

CHAPTER 4

Using SMART Notebook software to change your settings

■ To check microphone battery levels

1. Press the **SMART Audio** icon  on the SMART Notebook software toolbar.
SMART Audio software appears.
2. Locate the *Microphone Battery* area.



IMPORTANT

If this area indicates *No mic found*, your microphone is either not turned on (see *Turning on and turning off the microphone* on page 15) or not connected to the room module or an expansion module.

Chapter 5

Customizing your settings

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You can use your SMART Audio system once you install it without any special settings.

However, a system administrator can install and use SMART Audio configuration software to customize settings to meet requirements and to improve your audio experience.



IMPORTANT

Do not install SMART Audio configuration software on teacher computers unless you want to give them access to the configuration settings.

Teachers should access SMART Audio software from the **Start** menu (Windows computers) or the **Dock** (Mac computers) or from SMART Notebook software.

Installing SMART Audio configuration software

Install SMART Audio configuration software from the included CD, or go to the download page (smarttech.com/downloads).



IMPORTANT

You require a computer with a Windows operating system to install and run SMART Audio configuration software. After you configure your SMART Audio system, you can download the configuration file to your control unit, and then copy the settings in SMART Audio software from a computer with either a Windows operating system or a Mac operating system software.

■ To install SMART Audio configuration software

1. Disconnect the USB cable that connects your Windows computer to your control unit.
2. Insert the included CD in your computer, and then browse to the **SMARTAudioConfigSetup.exe** file.

You can also go to the administrator downloads page

(smarttech.com/AdministratorDownloads), select **SMART Audio Configuration software**, and then download the **SMARTAudioConfigSetup.exe** file to your desktop.

3. Double-click the **SMARTAudioConfigSetup.exe** file, and then follow the on-screen instructions.

Using SMART Audio configuration files

The SMART Audio configuration files include many settings that affect the operation of your SMART Audio system. These files are stored in the control unit as LPT files, but you can also store them on a computer or on a USB drive as a backup.

You can edit an LPT file using SMART Audio configuration software. Access a file in one of the following ways:

- Start SMART Audio configuration software in your Windows computer to see the default settings in a file. For more information, see *Opening a configuration file* on the next page.
- Start SMART Audio configuration software in your Windows computer connected to a control unit, and then download the control unit's LPT file to the computer. For more information, see *Downloading a configuration file* on the next page.
- Open an LPT file on a Windows computer or USB drive. For more information, see *Opening a configuration file* on the next page.

You can then edit the following audio settings in the LPT file.

- System volume (see *Setting the volume* on page 33)
- Speaker controls (see *Speaker control settings* on page 34)
- Paging control and 6-12V input settings (see *Setting the response to a page* on page 37)
- Microphone settings (see *Setting microphone features* on page 39)
- Auxiliary audio input device names and trims (see *Changing the audio input names and trims* on page 42)
- To edit other system settings, see *Other system settings* on page 42.

After you edit the LPT file, you can do one of the following:

- Upload the settings to a connected control unit. For more information, see *Uploading a configuration file* on page 33.
- Save the settings as an LPT file to upload to a control unit at another time. For more information, see *Saving a configuration file* on page 33.

Opening a configuration file

You can open a configuration file with SMART Audio configuration software, and then upload it to a connected control unit. This could be part of implementing settings or restoring a backup of settings.

To open a configuration file

1. Select **Start > All Programs > SMART Technologies > SMART Tools**.
2. Click **Audio Configuration Software**.

The *SMART Audio Configuration Software* screen appears.



IMPORTANT

If the Windows operating system does not see a SMART device, a warning appears.
Connect your computer to a SMART Audio system control unit with a USB cable.

3. Select **File > Open**.
4. Browse to and select the LPT file.

SMART Audio configuration software settings are loaded from the file.

Downloading a configuration file

You can download the configuration file from the control unit to your Windows computer to do one of the following:

- Configure specific settings
- Store a backup of the control unit's settings
- Copy the specific settings, and then upload them to another control unit in another room

To download a configuration file

1. Start SMART Audio configuration software, and then click **Download Configuration File from CU** on the **Setup** tab.

The file downloads from the control unit to your computer.

2. Edit the file, if you desire.
3. Select **File > Save** to save the configuration file to your computer.

Uploading a configuration file

After you edit the settings, you can upload the configuration file to the control unit or to another control unit in another room.

■ To upload configurations to the control unit

1. Start SMART Audio configuration software, and then select the **Setup** tab.
2. Click the **Upload Configuration File to the CU** button.

SMART Audio configuration software settings are uploaded from your computer to the control unit.

Saving a configuration file

After you edit your settings, you can save the configuration file to your computer as a backup or to upload to another SMART Audio system control unit.

■ To save a configuration file

1. Start SMART Audio configuration software, and then select the **File > Save** or **File > Save as**.
2. Type a file name, and then click **OK**.

SMART Audio software settings are saved to the file.

Setting the volume

The *Volume* tab enables you to do the following:

- Set a master default volume for all audio input devices.
- Set specific default volumes for specific audio input devices.

You can set an auxiliary input volume from -30 dB to 8 dB. You can set microphone volumes from -40 dB to 6 dB.

Other volume controls are based on these settings.

■ To set the master default volume

Move the **Master** slider on the Volume tab up or down.

OR

Change the volume by moving the up or down arrow.

■ To set the default volume of an auxiliary input device

Move the **Aux-1**, **Aux-2** or **USB Audio** slider on the *Volume* tab up or down.

OR

Move the up or down arrow to change the volume.

NOTE

You can give these inputs more descriptive names, such as "CD player," using SMART Audio configuration software. For more information, see *Changing the audio input names and trims* on page 42.

■ To set the default microphone volume

Move the **Mic 1** or **Mic 2** slider on the *Volume* tab up or down.

OR

Move the up or down arrow to change the volume.

IMPORTANT

You must have a microphone turned on, set to the channel and connected to the room module to set input volume. For more information, see *Using a second microphone* on page 18.

NOTE

Mic 1 controls the volume for channel 1 and Mic 2 controls the volume for channel 2.

Speaker control settings

The *Speaker Control* tab enables you to do the following:

- Select speaker and room equalization settings for the speakers connected to the room module and for the audio characteristics of the room.
- Trim the amplifiers (speakers).
- Save room-specific equalizations.

TIP

All settings in this tab can be saved as an equalization group in the LPT file. This enables you to save different rooms' equalization settings in one LPT file. For more information, see *Saving and recalling equalization settings* on page 36.

Setting speaker and room equalization

Your SMART Audio system has two independent equalization circuits:

- Speaker equalization is a set of equalization curves for industry standard speakers.

TIP

The *SMART Audio Room Speaker library* is part of the firmware and can be updated.

- Room equalization consists of seven bands of parametric equalization. It's helpful when you have room-specific anomalies, such as bass buildup, ringing or areas of feedback.

NOTE

To select the filter type or other parametric settings, use the *Room Equalization Parameters* menu.

To set speaker equalization

Select your speaker in the *Speaker EQ* drop-down list on the *Speaker Control* tab.

If your speaker type isn't listed, select **Flat**.

To set room equalization

Raise or lower the slider on the *Speaker Control* tab for each band in the *Room Equalization* area.

OR

Raise or lower the up and down arrows on the *Level* box.

For bands 2 to 6 you can select the type of filter (Peak, Notch, High Pass and Low Shelf), the center frequency and the bandwidth of the equalization curve.

To set room equalization parameters

Set the *Filter Type*, *Frequency* and *Bandwidth* for each band on the *Speaker Control* tab.

NOTE

You can also set the frequency for band 1 (bass) and band 7 (treble).

Setting amplifier trim

If a speaker is too loud or too quiet for a portion of the room, you can adjust the speaker trim from -12 dB to 6 dB in 1 dB increments.

NOTE

Adjusting the trim too high can cause feedback.

To set amplifier trim

Use the up and down arrows in the *Amplifier Trims* area on the *Speaker Control* tab to adjust the trim.

NOTE

The default setting is 0 dB.

Saving and recalling equalization settings

You can save equalization settings in the room module to enable you to respond to different situations in the same SMART Audio system installation or to save several rooms' equalization settings in the same LPT file, and then later apply them to each individual room.

To save equalization settings

1. Create your equalization settings on the *Speaker Control* tab.
2. Select the name you prefer for the current equalization from the *Save EQ* drop-down list.
3. Click the **Save Selected EQ** button.

To recall equalization settings

Select an equalization from the *Recall EQ* drop-down list on the *Speaker Control* tab.

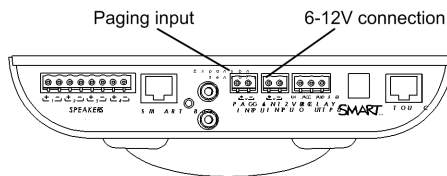
Setting the response to a page

You can use SMART Audio configuration software to define how your SMART Audio system responds to an incoming page.

WARNING

Paging systems often deliver important safety information. Have a professional installer connect the room module to an existing paging system so that pages are heard reliably.

When you install your room module, you can connect it to your existing paging system with either a paging input or a 6-12V connection.



The *Paging* tab enables you to do the following:

- Set paging input trim to your room module.
- Lower the volume of the current audio to the SMART Audio system when a page is broadcast.
- Lower the volume on a 6-12V input so that when a page is broadcast at the 6-12V input, the volume of the current audio lowers automatically.

Setting page volume

You can connect your existing paging system to your room module, and then set the incoming page volume. The following are common scenarios:

- Trim the incoming page to -19 dB so that the page doesn't play over your SMART Audio system speakers, because it uses other speakers in the room. You can still use the Page ducking feature for other SMART Audio system inputs. For more information, see *Setting the volume during a page* on the next page.
- Trim to increase or decrease the volume of the page that plays over your SMART Audio system speakers.

To increase or decrease the volume of a page

Use the **Paging Input Trim** arrow buttons on the *Paging* tab to adjust the page input trim from -19 dB to 6 dB.

CHAPTER 5

Customizing your settings

Setting the volume during a page

For an external page to duck the SMART Audio system, the room module requires one of the following:

- An audio signal at the paging input (even if the page plays on speakers that aren't part of the SMART Audio system)
- A signal at the 6–12V input. This is only a signal and doesn't result in the page playing over the SMART Audio system.

When a signal is present at the paging input, the volume of the other SMART Audio system inputs is automatically lowered the designated amount.

■ To set the speaker volume during a page

Select a ducking level in the *Duck on Page* drop-down list on the *Paging* tab.

Ducking level	Volume change during a paging input
none	No change
low	-6 dB
medium	-12 dB
high	-18 dB

Setting the volume during a 6-12V input

When you apply a signal to the 6-12V input, the volume of the other SMART Audio system inputs lowers the designated amount.

■ To set the speaker volume during a 6-12V input

Select a ducking level in the *Duck on 6-12v* drop-down list on the *Paging* tab.

Ducking level	Volume change during a 6-12V input
none	No change
low	-6 dB
medium	-12 dB
high	-18 dB

Setting microphone features

The *Microphones* tab enables you to do the following:

- Set a low battery microphone status light indicator.
- Enable automatic shut off when charging.
- Disable the buttons on the microphone.
- Enable auxiliary audio input device volume control from the microphone.
- Enable you to reduce the volume of audio input devices at the control unit when you are speaking into the microphone.
- Designate a response for quickly pressing the Soft button.
- Designate a response for pressing and holding the Soft button.



IMPORTANT

After you use SMART Audio configuration software to upload the microphone settings to a control unit, you must download them from the control unit to each microphone by pressing the **Volume Up** and **Volume Down** buttons for four seconds.

Setting the low battery indication

By default, the microphone status light doesn't flash to indicate a low battery. You can program the microphone status light to flash when the battery is low.

- At 10% battery charge the light flashes red twice per second.
- At 5% battery charge the light flashes red four times per second.

To set the low battery indication light to flash

Select **Low battery LED indicator** on the *Microphones* tab.

Setting the microphones to turn off when charging

Automatic On and Automatic Off mode turns off microphones when they're placed in the microphone charging cradle and turns them on when they're removed.

NOTE

This is a global setting for all microphones in the system. You can also program a specific microphone for a specific response. For more information, see *Enabling automatic shut off when charging* on page 21.

To set the microphones to turn off in the charging cradle

Select **Auto off when charging** on the Microphones tab.

Setting Button Disable mode

Button Disable mode disables the buttons of the microphone, preventing users from changing volume settings. The Mute/Power Off button isn't disabled with this feature.

NOTE

This is a global setting for all microphones in the system. You can also program a specific microphone for a specific response. For more information, see *Setting your microphone to disable volume buttons* on page 20.

To disable the buttons on the microphone

Select **Disable buttons on microphone** on the *Microphones* tab.

Setting auxiliary volume control from the microphone

You can set auxiliary volume control to use the microphone to increase the volume, decrease the volume or mute the most recently active auxiliary audio input device at the control unit without returning to your computer or the input device. For more information, see *Controlling an auxiliary audio input device from your microphone* on page 17.

You can then press the **Mute/Power Off** button on the microphone to take control of the volume for the audio input device.

NOTE

Auxiliary audio input refers to external input sources at the control unit, not at the microphone.

■ To set auxiliary audio input volume

If you want to prevent the user from using the microphone to control input volumes, select **Disable buttons on microphone** on the *Microphones* tab.

If you want to enable the user to use the microphone to control input volume when the microphone is muted, select **On mute** in the *Aux Volume Control* drop-down list on the *Microphones* tab.

Setting auxiliary ducking

The auxiliary ducking settings enables you to reduce the volume of the control unit's auxiliary audio inputs when you're speaking into the microphone.

This is helpful if you want to talk over a DVD/Blu-ray or other audio input device at the control unit.

■ To set an auxiliary ducking level

Select a ducking level in the *Aux Ducking* drop-down list on the *Microphones* tab.

Ducking level	Volume change during microphone transmission
none	No change
low	-6 dB
medium	-12 dB
high	-18 dB

Setting a Soft button short response

You can designate a response for when a user presses the **Soft** button on a microphone for less than four seconds. Typically you can use this to mute auxiliary audio inputs but it can trigger a relay or have no action.

■ To set a Soft button short response

If you want to mute auxiliary audio inputs at the control unit, select **Aux Mute** in the *Soft Button - Short* drop-down list on the *Microphones* tab.

If you want to trigger a relay in the relay input, select **Relay**.

If you don't want a response when you quickly press the **Soft** button, select **No Action**.

Setting a Soft button long response

You can designate a response for when a user presses the **Soft** button on a microphone for longer than four seconds. Typically you can use this to mute auxiliary audio inputs but it can also trigger a relay or have no action.

■ To set a Soft button long response

If you want to mute auxiliary audio inputs at the control unit, select **Aux Mute** in the *Soft Button - Long* drop-down list on the *Microphones* tab.

If you want to trigger a relay in the relay input, select **Relay**.

If you don't want a response when you press the **Soft** button for longer than four seconds, select **No Action**.

Changing the audio input names and trims

The *Input Names/Trims* tab enables you to do the following:

- Change the name of any audio input at the control unit so that it's more recognizable in SMART Audio configuration software. Each input can be named from one of the preset input labels or can be user defined.
- Trim the audio inputs that arrive at the control unit to reduce their volume.

■ To change the name of an auxiliary audio input device

1. Identify the input you want to rename on the *Input Names/Trims* tab.
2. Select the name you want for that input from the drop-down list. You can also select **User Defined**, and then type a name for the input device.

■ To change the trim of an auxiliary audio input device

Select the input you want to trim on the *Input Names/Trims* tab, and then set the trim.

Other system settings

The *System Settings* tab enables you to do the following:

- Change the volume of the active input device at the microphone.
- Set a response for the room module relay.
- Set a trigger for the room module relay.

Enabling the microphone user to change active input device volume

When your SMART Audio system is set to *Auto Select*, the control unit automatically detects the active audio input. This enables the microphone user to change the volume of the active audio input device without changing the volume of the other audio input device.

For more information on changing the volume of the audio input devices with the microphone, see *Controlling an auxiliary audio input device from your microphone* on page 17.

To enable a microphone user to change the volume of audio input devices

If you want to enable the microphone user to only change the volume of the active audio input device, select **Auto Select** on the *System Settings* tab.

If you want to enable the microphone user to change the volume of all audio input devices, clear **Auto Select**.

Setting the relay settings

You can install a relay at the room module to trigger a relay response on command, such as dimming lights, turning on an auxiliary audio input device or sending a signal to another location.

The command to the relay trigger can be one of the following:

- A teacher pressing the **Soft** button of the microphone
- An input at the 6-12V input
- Either the teacher pressing the **Soft** button or by an input at the 6-12V input

The relay can provide one of the following:

- Latching response
- 200 ms pulse
- 400 ms pulse
- 600 ms pulse

This is a single pole, double throw (SPDT) relay with normally open (N.O.), normally closed (N.C.) and common (COM) contacts.

A relay can be in an activated or deactivated state, as shown below.

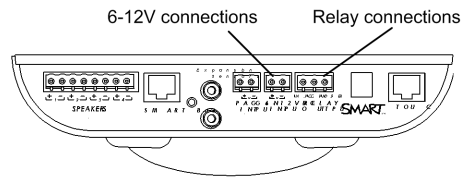
State	Relay path
Activated	The N.O. contact is closed and the N.C. contact is open.
Deactivated	The N.O. contact is open and the N.C. contact is closed.

CHAPTER 5

Customizing your settings

Room module connections

The room module includes relevant connections.



To set the relay settings

Select the preferred mode on the *System Settings* tab from the following table:

Setting	Result
Latching	Relay is active until the next pulse is received.
200 ms pulse	Relay is active for 200 milliseconds.
400 ms pulse	Relay is active for 400 milliseconds.
600 ms pulse	Relay is active for 600 milliseconds.

To set the relay trigger

If you want both the Soft button and the 6-12V input to trigger the relay, select **either** on the *System Settings* tab.

If you want the Soft button to trigger the relay, select **mic**.

If you want the 6-12V input to trigger the relay, select **6–12v**.

i NOTE

If you select 6-12V input as a relay trigger, the input can also set duck audio volume on the same signal. For more information, see *Setting the volume during a 6-12V input* on page 38.

Chapter 6

Troubleshooting your SMART Audio system

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You might be able to solve the issue with your SMART Audio system by performing these checks.

- Check your cable connections.
- Ensure SMART Audio software is installed.
- Reset the control unit to its startup state (see below).
- Update the control unit firmware.

Resetting your system

To reset the system

1. Remove the control unit bottom cover.
2. Press the labeled system **Reset** button for three seconds.
The system resets.
3. Replace the control unit bottom cover.

Updating the control unit firmware

IMPORTANT

Do not update the control unit firmware unless you're advised to by SMART Support (smarttech.com/support).

To update the control unit firmware

1. Launch the SMART Firmware Update.

On Windows 64-bit operating systems, browse to **C:\Program Files (x86)\SMART Technologies\SMART Product Drivers\SMARTFirmwareUpdater.exe**

On Windows 32-bit operating systems, browse to **C:\Program Files\SMART Technologies\SMART Product Drivers\SMARTFirmwareUpdater.exe**

On Mac operating system software, browse to **Applications\SMARTProduct Drivers\Additional Tools\SMARTFirmwareUpdater.app**

The *SMART Firmware Upgrade Wizard* appears.

2. Click **Next**.

The wizard scans your computer and displays a list of connected SMART interactive products.

3. Select your SMART product in the product update list.

4. Click **Next**.

The updater updates your firmware.

IMPORTANT

Do not disconnect your control unit from your computer during the update.

5. Click **Finish** when the update is complete, and then orient your interactive whiteboard.

Troubleshooting using the microphone status light

The normal state for the microphone status light is solid green. Use the following table if the light isn't on or if it isn't solid green.

The microphone status light is...	Cause	Solution
Off.	Your microphone is turned off.	Press any button on your microphone.
	Your microphone battery isn't charged.	Charge your microphone battery in the microphone charging cradle.
Flashing red twice per second.	Battery power is at 10% of its full charge.	Charge the battery.
Flashing red four times per second.	Battery power is at 5% of its full charge.	Charge the battery.
Solid amber.	Your room module isn't receiving power.	Press the Power button on the control unit.
	You're out of range of your room module.	Move within 15' (4.6 m) of the room module or the expansion sensor.
Flashing green.	The microphone is muted.	Press the Mute/Power Off button to restore the microphone's volume.
Solid green.	Normal operation	No action required

Troubleshooting why your voice doesn't come through the speakers

Use the following table if your voice doesn't come through the speakers when you speak into the microphone.

Cause	Solution
Your volume is too low on the microphone.	Increase the volume.
Your microphone volume is too low in SMART Audio software.	Increase the volume using SMART Audio software.
Your microphone isn't communicating with the room module.	Turn your microphone toward the room module or an expansion sensor, and then move to within 15' (4.6 m) of the room module.
The SMART Audio system is turned off.	Turn on the SMART Audio system.
Two microphones are set to the same channels.	Check the microphone mode, and then change one microphone to Find Channel mode.

Troubleshooting issues with an auxiliary audio input device

Use the following table if you can't hear an auxiliary audio input device playing on your SMART Audio system.

Cause	Solution
The file isn't playing.	Play the file.
Your computer audio output is muted.	Restore the volume for your computer.
The input device is muted at your control unit.	Increase the volume using SMART Audio software .
The SMART Audio system is turned off.	Turn on the SMART Audio system.
There is no USB connection from your computer to the control unit.	Connect a USB cable from your computer to the control unit.

Appendix A

Hardware environmental compliance

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

Waste Electrical and Electronic Equipment regulations (WEEE directive)

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 Technologies products, we strongly encourage you to properly recycle the electronic product when it has reached the end of its life. If you require further information, please contact your reseller or SMART Technologies for information on which recycling agency to contact.

Restriction of Certain Hazardous Substances (RoHS directive)

This product meets the requirements of the European Union's Restriction of Certain Hazardous Substances (RoHS) directive 2002/95/EC.

Consequently, this product also complies with other regulations that have arisen in various geographical areas, and that reference the European Union's RoHS directive.

Batteries

Batteries are regulated in many countries. Check with your reseller to find out how to recycle used batteries.

APPENDIX A

Hardware environmental compliance

There are special regulations that must be met when shipping a product that has a lithium ion battery packaged with the product or shipping a lithium ion battery. When returning a SMART Technologies product which contains a lithium ion battery or returning a lithium ion battery, call SMART Technologies RMA for information on the special shipping regulations.

- 1.866.518.6791, Option 4 (U.S./Canada)
- 1.403.228.5940 (all other countries)

Packaging

Many countries have regulations restricting the use of certain heavy metals in product packaging. The packaging used by SMART Technologies to ship products complies with applicable packaging laws.

Covered electronic devices

Many U.S. states classify monitors as covered electronic devices and regulate their disposal.

Applicable SMART Technologies products meet the requirements of the covered electronic devices regulations.

China's Electronic Information Products regulations

China regulates products that are classified as EIP (Electronic Information Products).

SMART Technologies products fall under this classification and meet the requirements for China's EIP regulations.

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