

# Installation Guide

***Rear Projection SMART Board™ 3000i***  
**Interactive Whiteboard**

## Registration Benefits

In the past, we've made new features available as free software upgrades. Register your SMART product to be notified of free upgrades like these.

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

**Serial Number** \_\_\_\_\_

**Date of Purchase** \_\_\_\_\_

Register online at [www.smarttech.com/registration](http://www.smarttech.com/registration)

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U.S. Patent Nos. 5,448,263; 6,141,000; 6,326,954; 6,337,681; 6,741,267; 6,747,636; 6,803,906; 6,919,880; 6,947,032; 6,954,197 and 6,972,401. Canadian Patent No. 2,058,219. Other U.S., Canadian and foreign patents pending.

NEC VT595

Printed in Canada 10/2006

# Important Information

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Please read this manual carefully before setting up and using the *Rear Projection SMART Board™* 3000i interactive whiteboard.

**WARNING**



The projector inside the unit is a high brightness light source. Don't look directly into the beam of light. Prevent children from looking directly into the beam.

**WARNING**



To reduce the risk of fire or electric shock, don't expose this product to rain or moisture.

**WARNING**



(For European customers only)

Use the 3000i with European TN and TT power distribution systems only. The 3000i isn't suitable for older, IT-type power distribution systems found in some European countries. "This system (IT-type) is widely used isolated from earth, in some installations in France, with impedance to earth, at 230/400V, and in Norway, with voltage limiter, neutral not distributed, at 230V line-to-line." (IEC 60950:1999)

Contact qualified personnel if you're uncertain of the type of power system available where you're installing the 3000i.

**CAUTION**



The projector inside the 3000i has been designed for use under normal operating conditions only. Normal operating conditions are defined as product use that does not exceed eight hours per day and 260 days per year. Exceeding these operating conditions could cause projector damage. Damage caused by such extended use won't be covered by the product warranty.

## Other Precautions

For operating safety and to avoid damage to the cabinet and its parts, please read the following information carefully.

- Move the unit with care. Quick stops, excessive force and movement over uneven surfaces can overturn the unit.
- If you transport the 3000i, ship it only in an upright position and never lay the interactive whiteboard facedown. In addition, ensure that the projector is secure, or remove the projector and package it with as much padding as reasonably possible to protect it from vibration or shock.
- If you transport the 3000i over a long distance, completely repackage it using the original packaging. This packaging was designed with optimal shock and vibration protection. If the original packaging isn't available, pack all the components with as much padding as reasonably possible to protect them from vibration or shock.
- Clean the interactive whiteboard surface regularly so dust doesn't build up on the surface and adversely affect the operation of the 3000i.

- Don't touch the rear surface of the screen or apply isopropyl alcohol, water or acetone to it. These fluids will damage the diffusion coating, resulting in a permanent deterioration in display quality.
- If you inadvertently smudge the rear surface of the screen, dab it carefully with a soft cloth and alcohol-free glass cleaner. Don't spray glass cleaner directly on the back of the screen; spray it lightly on the cloth and then gently dab the rear surface until the marks are removed.
- The 3000i uses digital cameras located inside the screen frame. Don't allow excess glass cleaner to flow into the crack between the frame and the writing surface because the cleaner could damage these cameras.
- Lock the casters after you set up the cabinet so it remains stationary while in use.
- Avoid setting up and using the 3000i in an area with excessive levels of dust, humidity or smoke.
- Avoid exposing the 3000i to extreme heat or cold. The operating temperature range is from 41°F to 85°F (5°C to 29°C) with up to 80% humidity (non-condensing). The shipping and storage temperature range is from 14°F to 95°F (-10°C to 35°C) with up to 80% humidity (non-condensing).
- Make sure a power outlet is near the 3000i and remains accessible during use.
- Use safe practices when you're connecting the unit's power cord to a power outlet. For example, make sure your hands are dry and don't insert the plug into a dusty outlet.
- If possible, disconnect the 3000i's power cord from the power outlet before thunderstorms. However, don't touch the 3000i or its power cord during a thunderstorm as there is a risk of electrical shock.
- If you won't use the 3000i for an extended period, disconnect the unit's power cord from the power outlet.
- Disconnect the unit's power cord from the power outlet before you install or service any components.
- This product comes with a three-prong, grounding-type power plug (designed to fit into a grounding-type power outlet). If you can't insert the plug into a power outlet, contact an electrician to replace the power outlet. Don't modify the power plug.
- Don't modify the power cord. Handle it carefully and avoid bending it excessively. Don't place the power cord in an area where it's likely to be stepped on or pinched by items placed on or against it. If you must run a cable over the floor, lay it in a flat, straight line, and secure it to the floor with tape or a cable management strip of contrasting color.
- If your SMART product requires replacement parts, use parts that are specified by SMART Technologies Inc.

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# About the 3000i

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The 3000i is a *Rear Projection* SMART Board interactive whiteboard cabinet with an integrated LCD projector and a 66" (167.6 cm) diagonal interactive screen.

A mirror system reflects the projected image onto the back of the interactive whiteboard screen, eliminating the shadows that can occur with a front projection system. You can switch between different projector input sources (host computer, VCR, DVD player and guest laptop) with the press of a control panel button.

SMART's DVIT™ (Digital Vision Touch) technology uses digital cameras to track objects on the interactive whiteboard. Each camera recognizes the position of a pen tray tool or your finger and sends this information to the computer. You can perform any normal computer operation, such as opening or closing an application, scrolling through a file, or opening your browser, simply by touching the screen.

## Features of the 3000i

- Touch sensitive, rear projection interactive whiteboard that enables you to do everything you can do at a computer workstation. You can write over any application in digital ink using a pen tray pen or your finger, and save the notes to a Notebook™ file for reference and distribution.
- Integrated NEC VT595 projector with short-throw lens
- Audio system
- Pen tray (including four pens and an eraser) and a wireless keyboard
- Control panel with projector, volume and source switching controls. The control panel also provides button-press access to Notebook software and the Floating Tools.
- Connection panel at the rear of the cabinet that allows you to connect a network cable, printer, second projector and room audio system
- Locking front doors for enhanced security
- Minimal floor space requirements: the 3000i fits through most standard doorways for room-to-room mobility

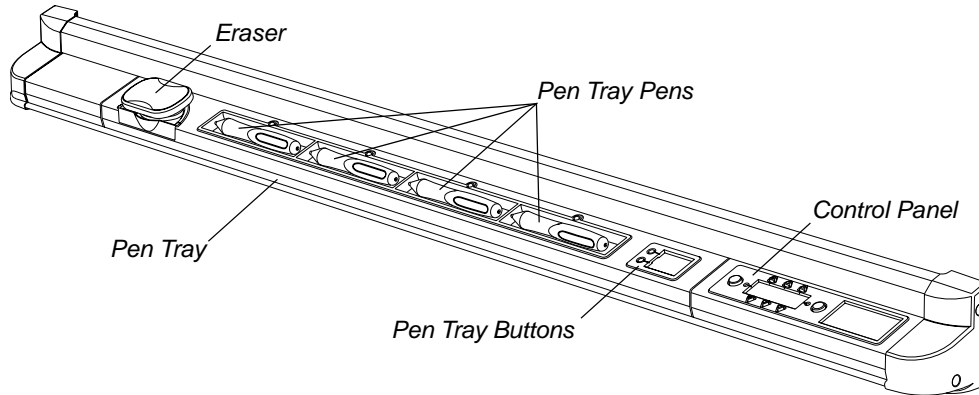
## The NEC VT595 Projector

The VT595 projector has XGA resolution (1024 × 768) and is adapted for use in the 3000i.

|                |  |
|----------------|--|
| <b>CAUTION</b> | Don't move the ring that surrounds the short-throw, customized projector lens, even though the NEC VT595 user's manual states that you should use this ring to obtain the best focus. You must disregard this information. If you move the ring, you will damage the lens. |
|----------------|--|

**NOTE:** See page 14 for information on adjusting the projector focus.

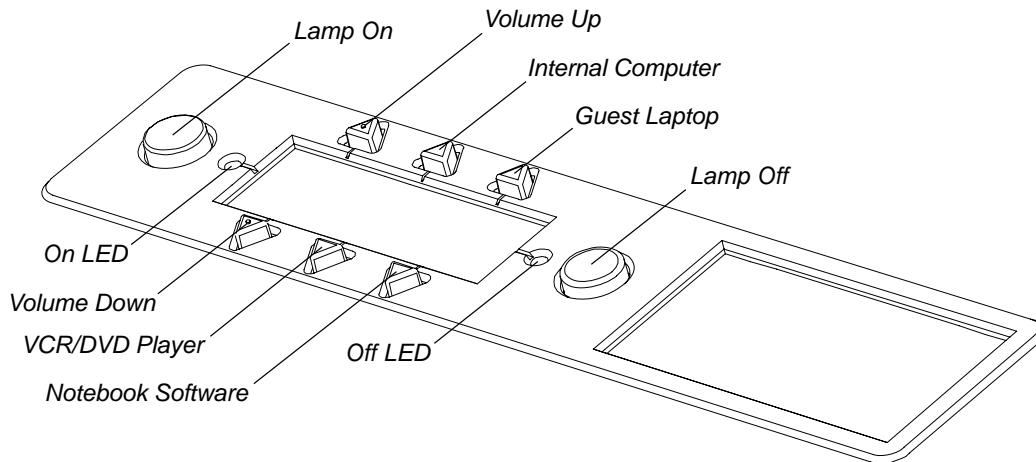
## Pen Tray Features



Using a pen tray pen, you can write over the computer image with digital ink. You can use SMART Board software to change any of these pens to highlighters, assign a new color, or alter their width. You can also change the size of the area erased by the pen tray eraser.

You can press the top pen tray button to make the SMART Keyboard appear for on-screen typing. You can press the bottom button to make the next contact with the interactive whiteboard a right-click. You can also configure these buttons to perform other functions.

## Control Panel

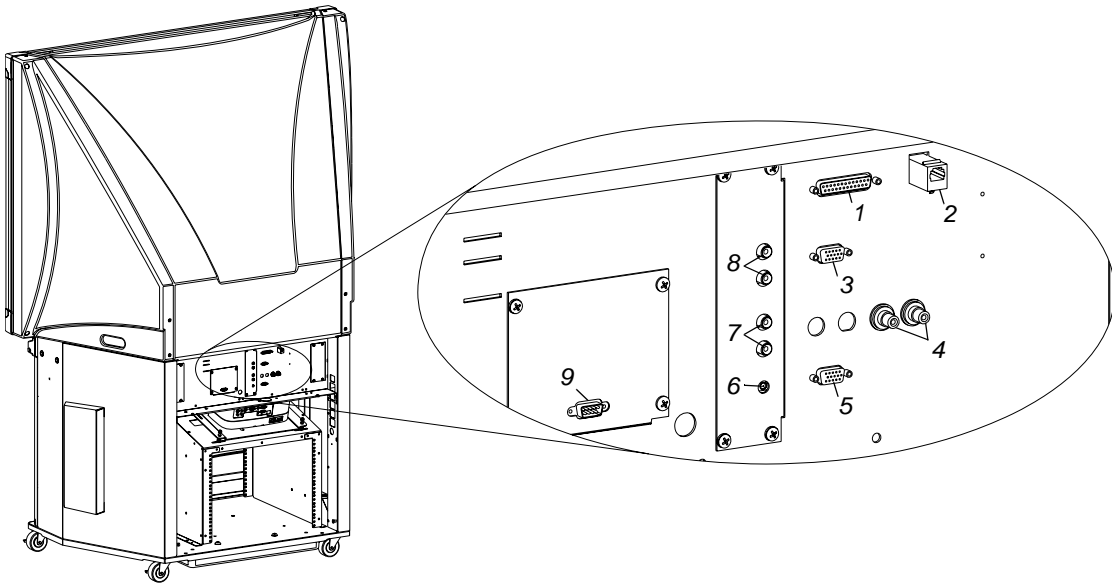


You can use the control panel to start the 3000i, put the 3000i into Standby mode, change the display source for the projector, adjust the volume of the internal sound system and start Notebook software.



## Connection Panel

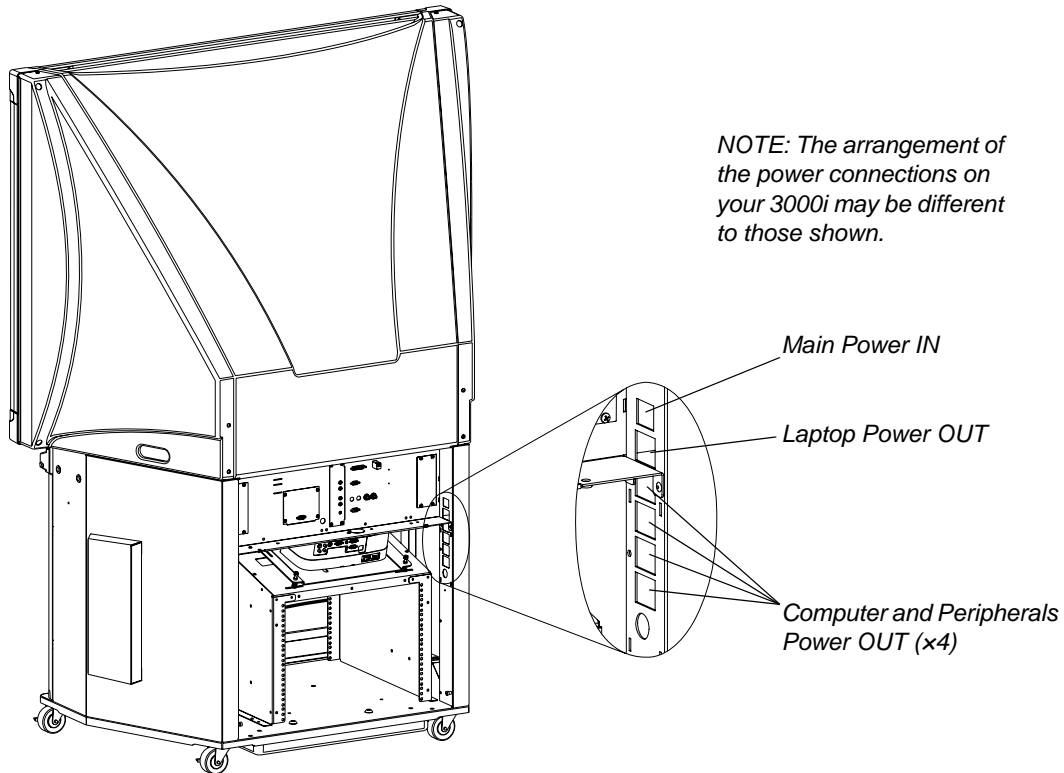
The connection panel allows you to make a variety of external connections to the 3000i cabinet.



1. **Printer (Female)** – Enables connection to an external printer. For more information, see page 9.
2. **Network** – Enables connection to a network. For more information, see page 10.
3. **Video OUT (Female)** – Enables connection to an external projector or monitor (RGB output only). For more information, see page 10.
4. **VCR/DVD Audio OUT** – These connectors are already linked with an RCA cable to the **Audio IN** jacks on the connection panel. Keep the right and left channel connections correct for stereo sound.
5. **Computer 2 Video IN (Female)** – Only used if the optional Guest Laptop Support kit is installed. For more information, see page 11.
6. **Computer 2 Audio IN (Female)** – Only used if the optional Guest Laptop Support kit is installed. For more information, see page 11.
7. **Audio IN** – These connectors are already linked with an RCA cable to the **VCR/DVD Audio** jacks on the connection panel. Keep the right and left channel connections correct for stereo sound.
8. **Room Audio OUT** – Enables connection to an external room sound system. For more information, see page 11.
9. **Computer 2 Serial IN (Female)** – Only used if the optional Guest Laptop Support kit is installed. For more information, see page 11.

## Main Power Input and Power Outputs

The Main Power IN and Power OUT connections are to the right of the connection panel (as you face the rear of the cabinet).



The **Main Power IN** provides power to the 3000i.

The **Laptop Power OUT** may be used with the optional Guest Laptop Support kit to provide power to a guest laptop.

The four **Computer and Peripherals Power OUT** receptacles connect to cables inside the cabinet. You can use these cables for the internal computer, projector and peripherals, such as VCRs, DVD players and printers.

# Setting Up the 3000i

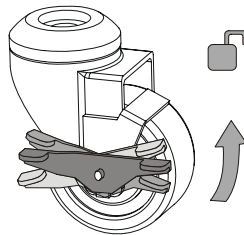
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Use this section of the manual to find out how to:

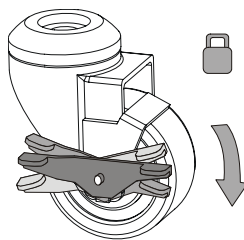
- position the 3000i (this page)
- install and connect the computer (page 6)
- connect a VCR or DVD player (page 7)
- connect a printer (page 9)
- connect a network (page 10)
- connect an external monitor or projector (page 10)
- connect an external sound system (page 11)

## Positioning the 3000i

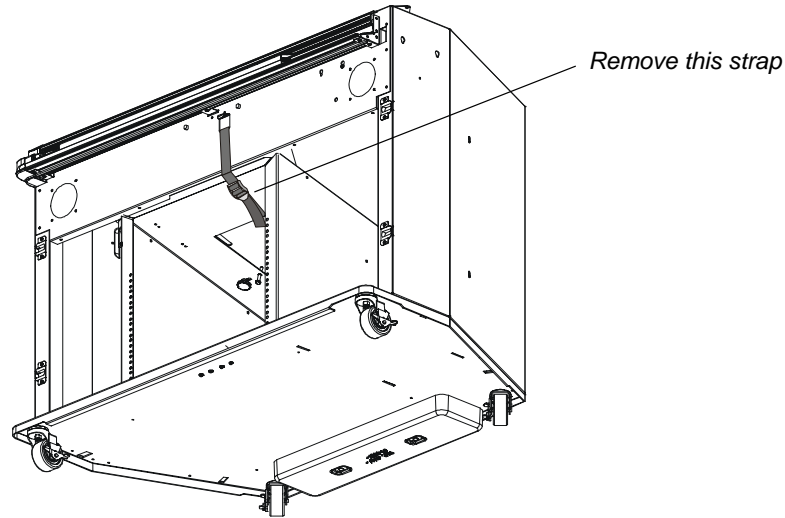
1. Remove the unit from its shipping carton.
2. Unlock the casters by pressing up on the caster-lock tab.



3. Move the unit to the required location. Leave enough space around the unit to comfortably perform assembly and connection procedures.
4. Lock the casters by pressing down on the caster-lock tab.



5. Open the cabinet's front doors. Unbuckle and remove the strap that secures the small mirror located in the middle of the speaker panel and below the projector platform.



## Installing and Connecting a Computer

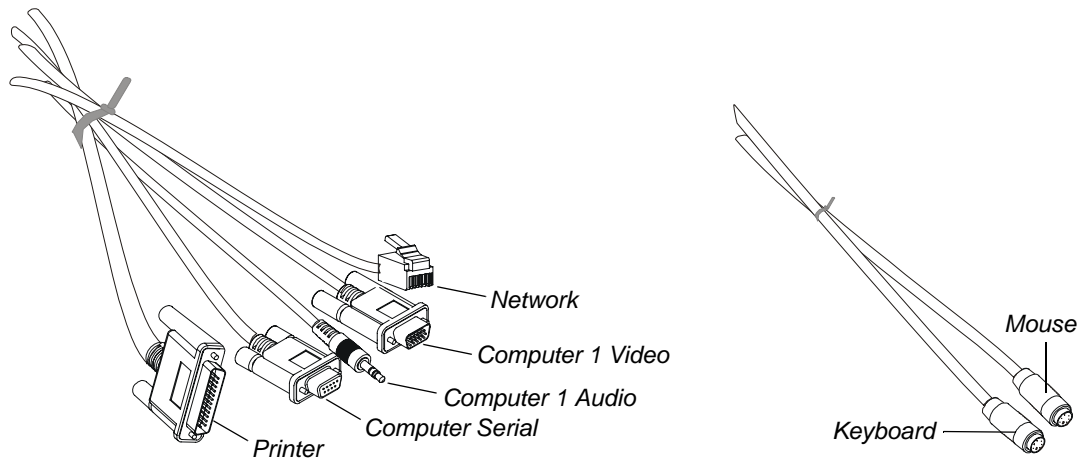
**NOTE:** If you ordered the optional Guest Laptop Support kit, and you're installing the guest laptop shelf on the right side of the cabinet, install the shelf before you install the internal computer. The plastic hole covers are easier to remove when the computer isn't inside. For more information, see the instructions you received with the option kit.

### To install and connect a computer

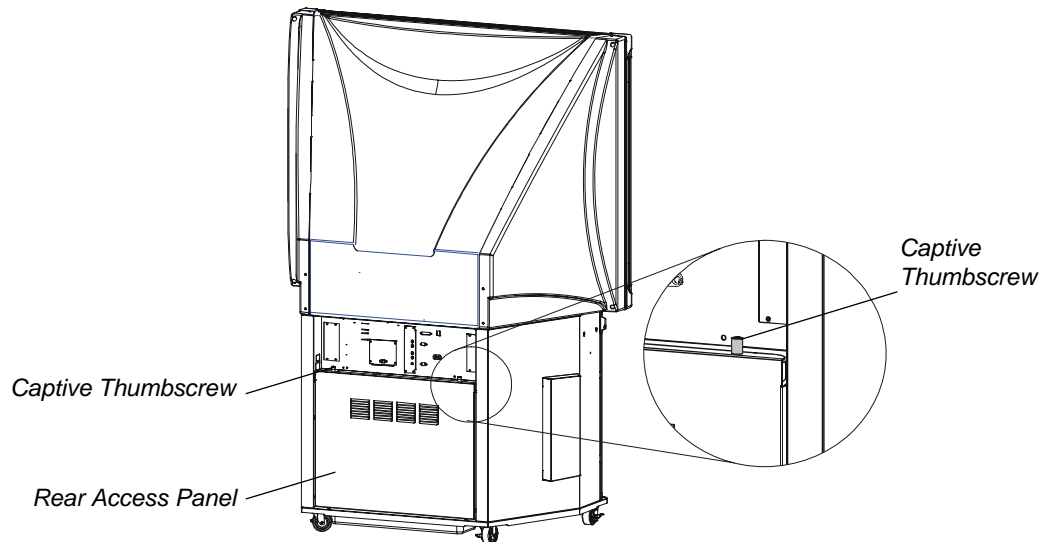
1. Slide the computer into place above the computer straps and then use the straps to secure it.

**NOTE:** The straps enable you to roll the cabinet from room to room without removing the computer. However, these straps won't secure the computer during cabinet shipment. If you need to transport the 3000i, remove the computer before you ship it.

2. Locate the tie-wrapped bundle of cables dangling inside the cabinet. In addition to this cable bundle, there are AC power, keyboard and mouse cables located nearby.



**NOTE:** If you have insufficient access to your computer's connection panel, you can remove the cabinet's rear access panel. To remove the rear access panel, loosen the two captive thumbscrews at the top of the rear access panel. Rotate the top of the rear access panel toward you and then pull it up, releasing it from the cabinet. After you turn on the projector and internal computer, reattach the rear access panel to the back of the cabinet as a security precaution.



3. Connect the Computer 1 Video cable to the computer's video connector.
4. Connect the Computer 1 Audio cable to the computer's audio line OUT connector.
5. Connect the Computer 1 Serial cable to an available serial connector on the computer.

**NOTE:** If the computer doesn't have an available serial receptacle, connect the provided SMART USB adapter between the Computer 1 Serial cable and the computer's USB receptacle.

6. Connect the Printer cable to the DB25 (printer) connector.
7. Connect the Network cable to the network adapter (if applicable).
8. Connect the Mouse and Keyboard cables to the PS/2 mouse receptacle and the PS/2 keyboard receptacle.
9. Connect the AC Power cable to the computer's power connector.

### To connect the power cable

1. Connect the power cable in the accessory box to the power inlet at the rear of the 3000i.
2. Connect this power cable to an available power outlet.

## Connecting to a VCR and/or DVD Player

You can connect a VCR to the projector, using either the composite video cable or the S-video cable bundled inside the cabinet. To connect a DVD player to the projector, use the S-video cable bundled inside the cabinet. You can then switch the display source to the VCR or DVD player by pressing the **VCR/DVD Player** button on the control panel.

If you wish to connect both a VCR and a DVD player to the projector, you must use the composite video cable for the VCR and the S-video cable for the DVD player. If both are connected, pressing the **VCR/DVD Player** button alternates the display source between the VCR and the DVD player. There is a three-second delay before the alternate display source appears.

Although there is only a single external audio connection, you can link the VCR and DVD player audio connections. This linked audio connection makes the audio source switch automatically when you switch the video sources.

When you switch to another source (such as the internal computer), and then press the **VCR/DVD Player** button, the last active video source appears.

### To connect a VCR to the 3000i

1. Connect an RCA composite video cable inside the cabinet to the VCR's **Video OUT** jack. This jack may be labeled "To Monitor."

**NOTE:** If the VCR has an S-video output, you can connect the S-video cable bundled inside the cabinet to the VCR. However, if you use the S-video cable to connect to the VCR, you won't be able to use this cable to connect to a DVD player.

2. Connect the RCA cables inside the cabinet to the VCR's **RCA Audio** (or **Audio OUT**) outputs. Keep the right and left channel connections correct for stereo sound.

**NOTE:** You can't connect these audio cables to both the VCR and the DVD player. However, you can link the audio connections of the DVD player and VCR, as described below.

3. Connect the VCR's power cable to an available power outlet in the cabinet.

### To connect a DVD player to a 3000i

1. Connect the S-video cable inside the cabinet to the DVD player's **S-video OUT** receptacle.

**NOTE:** Alternatively, you can connect the RCA composite video cable bundled inside the cabinet to the DVD player. However, the S-video cable provides better image quality than the composite video cable.

2. Connect the RCA audio cables inside the cabinet to the DVD player's **RCA Audio** (or **Audio OUT**) outputs. Keep the right and left channel connections correct for stereo sound.

**NOTE:** You can't connect these audio cables to both the VCR and the DVD player. However, you can link the audio connections of the DVD player and VCR, as described below.

3. Connect the DVD player's power cable to an available power outlet in the cabinet.

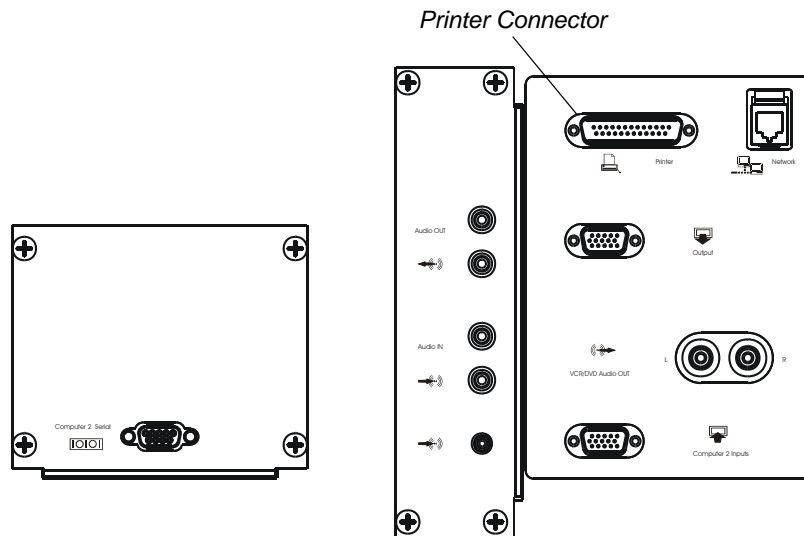
## To link the VCR and DVD player audio connections

1. If there is a tape in the VCR, remove it.
2. Connect standard RCA audio cables (not supplied) from the DVD player's **RCA Audio** (or **Audio OUT**) outputs to the VCR's **RCA Audio** (or **Audio IN**) inputs. Keep the right and left channel connections correct for stereo sound.
3. Connect the RCA audio cables bundled inside the cabinet to the VCR's **RCA Audio** (or **Audio OUT**) outputs. Keep the right and left channel connections correct for stereo sound.

When you switch video sources, the audio source for the cabinet speakers also switches. If it doesn't switch, see the instructions you received with the VCR for additional steps.

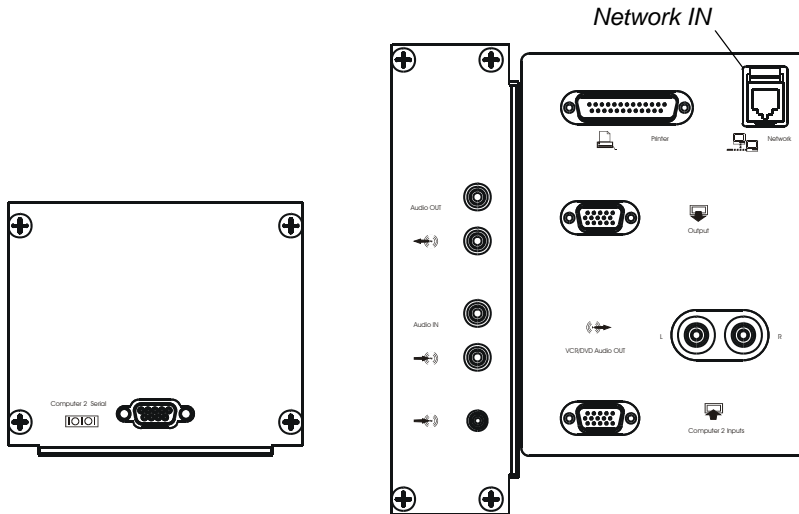
## Connecting a Printer

Connect a DB25 printer cable (not supplied) from the printer to the **Printer Connector** receptacle on the connection panel.



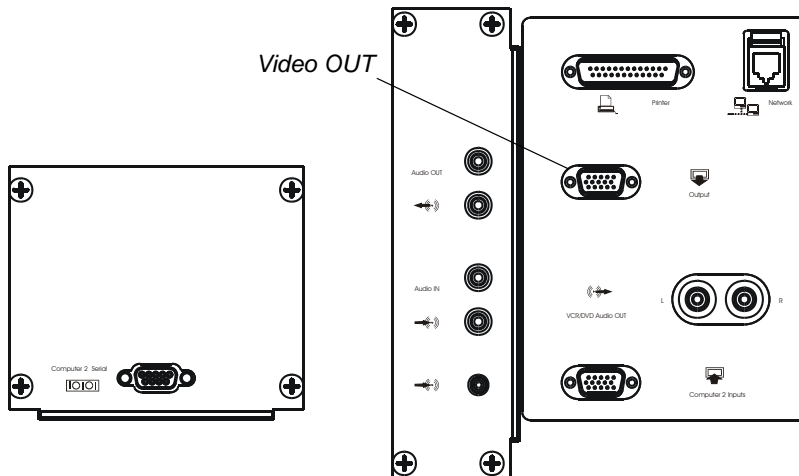
## Connecting the 3000i to a Network

Connect a standard male-to-male RJ45 network cable (not supplied) from the network cable outlet to the **Network IN** receptacle on the connection panel.



## Connecting an External Monitor or Projector

You can output the signal from the internal computer. Connect an HD DB15 video cable (not supplied) from the **Video OUT** receptacle in the connection panel to the external projector or monitor.

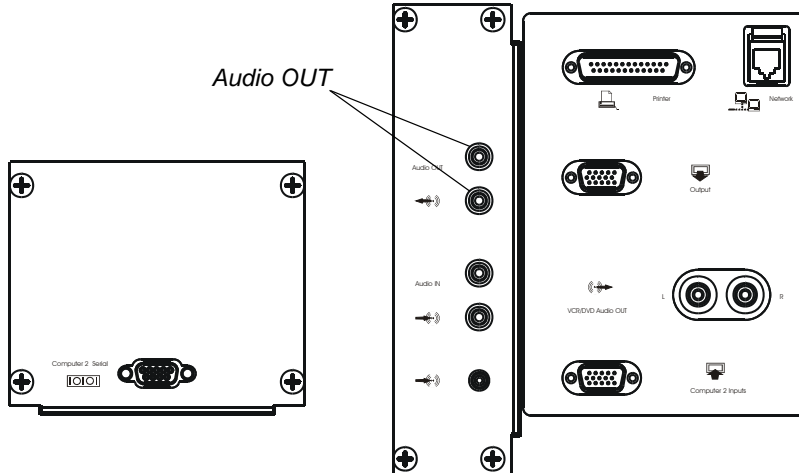


**NOTE:** You can't output the Computer 2 Input signal.



## Connecting an External Sound System

Connect standard RCA audio cables (not supplied) from the external sound system's RCA Audio Inputs to the two **Audio OUT (L/R)** jacks on the connection panel. Keep the right and left channel connections correct for stereo sound.



## Connecting a Guest Laptop

If you ordered the optional Guest Laptop Support kit, you can connect a guest laptop to the 3000i. This kit connects the laptop to a multimedia switch inside the 3000i. After the laptop is connected, you can switch the source of the 3000i's data input between the 3000i's internal computer and the guest laptop.

The Guest Laptop Support kit includes a laptop umbilical (which connects the guest laptop to the 3000i), a country-specific AC adapter or cable, and a guest laptop shelf. The shelf is specifically designed to support a guest laptop, although it can also support a VCR or DVD player.



# Finalizing the Installation

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With the computer and projector on, finish installing the 3000i by:

- configuring the computer settings (this page)
- selecting the projector's picture settings (page 14)
- adjusting the projected image (page 14)
- installing SMART Board software on the connected computer (page 18)
- configuring the computer port (page 18)
- orienting the interactive whiteboard (page 18)

## Configuring the Computer Settings

For optimal configuration, use the following recommended settings for the computer inside the 3000i.

### Recommended Settings

Set the computer to turn off the monitor after one hour of inactivity and to put the hard disk(s) into Standby mode after two hours. This extended period prevents the computer from shutting down unexpectedly (for example, during presentations or meetings that have gaps in computer activity).

When the computer is the 3000i's active display source, the computer stops sending an RGB video signal to the projector after the period of inactivity. This triggers the projector to wait for approximately five minutes and then go into Standby mode.

**NOTE:** If the input source for the projector is the video source (either composite or S-video), the projector won't go into Standby mode.

To change the settings in the Windows® operating system, access the **Properties** dialog box for the display and adjust the energy saving features and the power management properties. For Macintosh computers, adjust the settings in the **System Preferences** application. For more information on changing these settings, see the instructions that came with the operating system.

**NOTE:** You can't adjust the power settings on Windows NT® 4.0 systems.

### Matching the Computer Resolution to the Projector Resolution

The projector resolution is 1024 × 768 (XGA) and you must ensure the computer's resolution matches this. If the computer resolution is set to anything other than this optimal resolution, you may not see the entire image, or the image may be too small to fill the screen, even with further adjustments. For more information on changing the computer's resolution, see the instructions that came with the operating system.

**NOTE:** You may need to adjust the computer's refresh rate to obtain the best results. Set the computer to an initial refresh rate of 60 Hz and adjust this rate up or down until you've determined the ideal refresh rate. For more information on changing the computer's refresh rate, see the instructions that came with the operating system.

## Selecting the Projector's Picture Settings

The NEC VT595 projector has six picture settings, each optimized for a specific purpose. To obtain the best picture for the 3000i, select a picture setting of **High-Bright**.

**NOTE:** The High-Bright option provides the brightest image, but it also reduces the life of the lamp. To display an acceptable image without reducing the lamp's life, select a picture setting of **Presentation**.

### To select the projector's picture settings

1. Press the **Menu** button on the projector's remote control.  
The *Picture* submenu displays the current picture settings, including the contrast and brightness.
2. Select **Preset** and press the **Enter** button.
3. Select **High-Bright** and press **Enter**.
4. Press the **Exit** button to close the menu.

## Adjusting the Projected Image

### CAUTION



Don't adjust the ring that surrounds the short-throw, customized projector lens, even though the NEC VT595 user's manual states that you should use this ring to obtain the best focus. You must disregard this information. If you move the ring, you will damage the lens.

You may need to adjust the projector to obtain a focused image that fits on the screen. Complete the following procedures only as required.

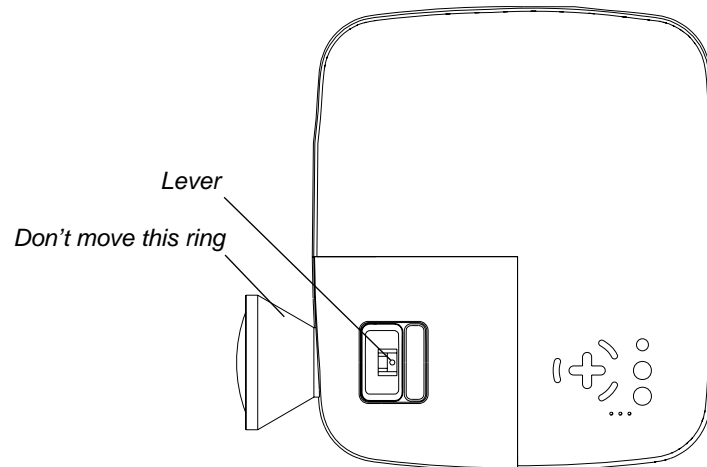
**NOTE:** Don't adjust the image size and geometry based upon the projector's splash screen. This image is much smaller than the projected image from the computer. If you haven't already done so, set the computer's resolution and refresh rate (page 13) before you adjust the projected image.

While making these adjustments, check both the reflection in the small mirror and the actual image on the screen. For the best image, the reflection must be in the center of the small mirror and each side must be symmetrical.

**NOTE:** When you first connect the projector, you may need to fine-tune the image. To optimize the image in RGB mode automatically, press the **Auto Adjust** button on the projector's remote control. This will eliminate vertical banding, flickering, video noise, dot interference and cross talk.

## To adjust the projected image

1. Crouch behind the 3000i. If you haven't done so already, remove the rear access panel (see page 7).
2. To focus the image, adjust the lever on the projector.



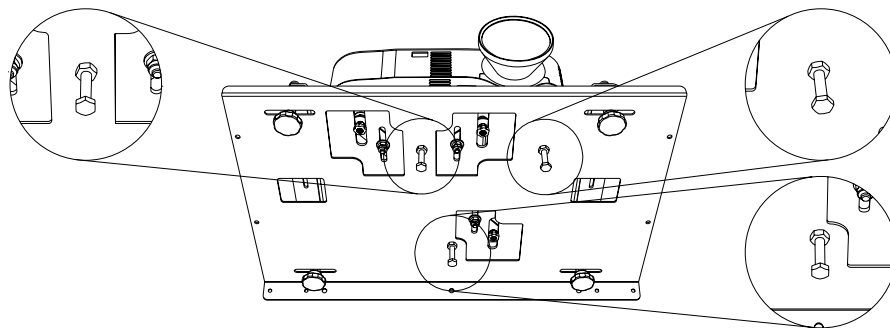
Using the supplied hex key, gently loosen the screw in the center of the lever. Adjust the focus by moving the lever, and then gently tighten the screw.

### CAUTION



Don't over-tighten the screw.

3. Using the supplied 7/16" nut driver, loosen the three locking bolts identified in the figure below.



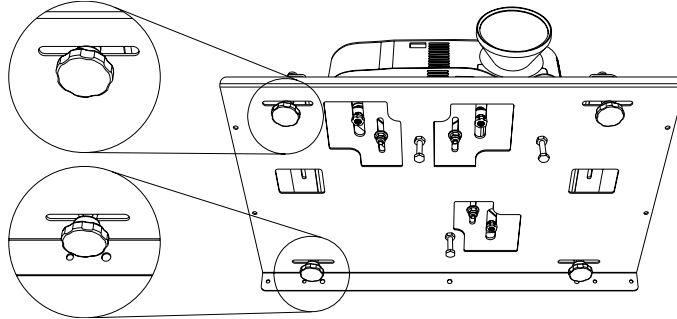
4. To adjust the image laterally, slide the projector's mounting plate to the left or right.





5. To adjust roll:

- i. Tighten or loosen the knobs on the left of the projector plate until the projected image has the required roll adjustment. Adjust these knobs by the same amount or else you will change the vertical position of the image.

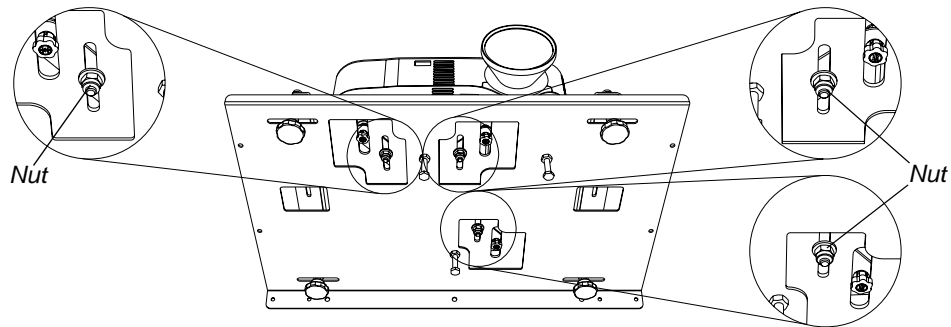


- ii. If you can't tighten the knobs on the left of the projector plate, adjust the roll by loosening the knobs on the right of the projector plate



6. To adjust image size:

- i. Loosen the three nuts in the projector plate using the 7/16" nut driver in the accessory kit.

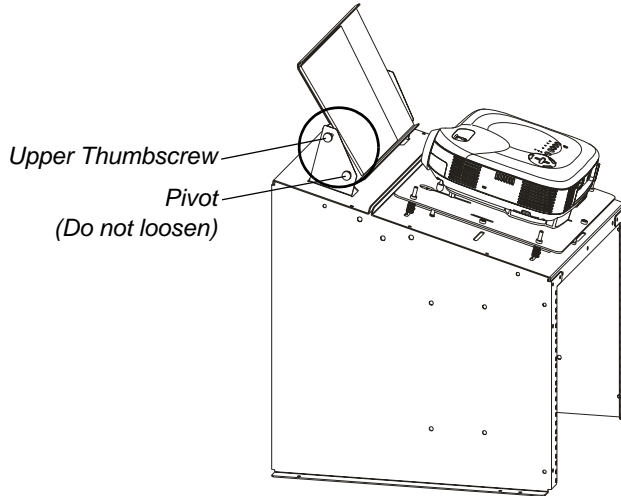


- ii. Slide the projector backward to increase the image size or forward to reduce the image size.
- iii. When the image is the correct size, tighten the nuts.

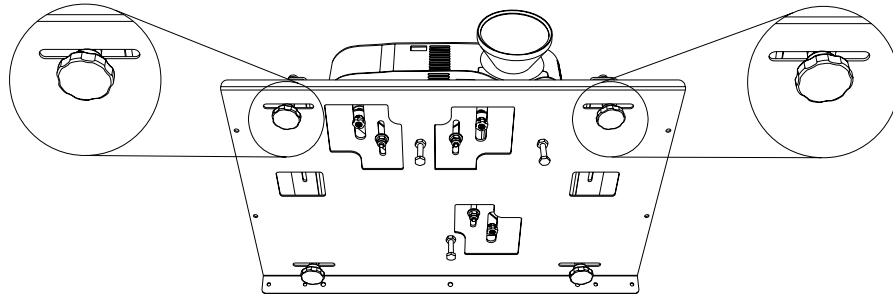
7. To move the image up or down:



- i. Loosen the upper thumbscrews on both sides of the small mirror. Don't loosen the lower pivot. Gently push the mirror away from you to lower the image, or pull it towards you to raise the image. Tighten the thumbscrews.

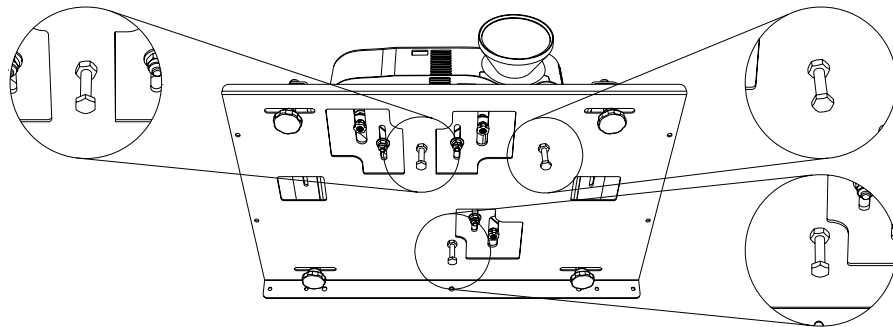


- ii. If the image is still too high or too low, tighten or loosen the knobs at the front of the projector plate until you have the required vertical position. Adjust these knobs by the same amount or else you will change the roll position of the image.



If you can't tighten the front knobs any further, you can change the vertical position by loosening the knobs at the rear of the projector plate.

8. After you've made the required adjustments, use the 7/16" nut driver to tighten the three locking bolts that you loosened in step 3.



## Installing SMART Board Software

You can install SMART Board software on any computer using the supplied software CDs.



### TIP

During the installation, select the option to start the SMART Board tools automatically when you start the computer. This ensures that the interactive whiteboard is fully functional whenever you start the computer.



When SMART Board tools are open, the SMART Board icon appears in the notification area (Windows computers) or in the Dock (Macintosh computers).

### To install SMART Board software

1. If you haven't done so already, turn on the computer and the projector. To turn on the projector, press the **Lamp On** button on the control panel.

### IMPORTANT



If you're using a USB adapter and the computer can't find the appropriate driver for it, unplug the USB adapter from the computer, install SMART Board software and then reconnect the USB adapter.

If the *Found New Hardware* wizard appears, point the wizard to the SMART Board software CD so it can locate the correct driver.

2. Close all open applications on the computer.
3. Insert the SMART Board software CD into the CD drive.
  - (Windows operating systems) The installation starts automatically. Follow the on-screen instructions. If the CD doesn't start automatically, select **Start > Run**, type **x:\autorun.exe** (where x: is the CD drive), and press ENTER.
  - (Macintosh computers) Double-click the **SMART Board Install CD** icon that appears on the desktop. A Finder window opens. Double-click the **SMART Board Software** icon and follow the on-screen instructions. You may require an administrator's password to complete the installation.

## Configuring the Computer Port

After you install SMART Board software and connect the interactive whiteboard, the screen becomes fully interactive. However, sometimes SMART Board software can't locate the port that the interactive whiteboard is connected to. If the screen isn't touch sensitive, configure the port in SMART Board software. If the interactive whiteboard is connected with a USB adapter, you'll have to disconnect the USB connector from the computer, and then reconnect it. For more information, see the SMART Board software Help.

## Orienting the Interactive Whiteboard

Although the interactive whiteboard has a default orientation, you may want to perform an orientation to ensure the greatest possible level of accuracy as the computer tracks the contact with the screen. For more information, see the SMART Board software Help.



# Basic Operations

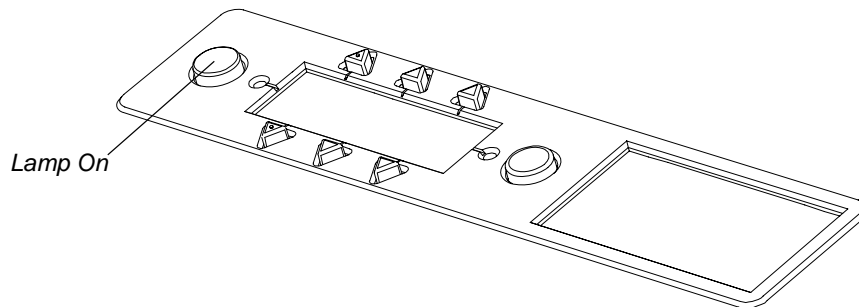
This section shows you how to:

- start the 3000i (this page)
- put the 3000i into Standby mode (page 20)
- turn off the 3000i (page 21)
- use the interactive whiteboard (page 21)
- change the projector display source (page 23)
- adjust the volume (page 24)

## Starting the 3000i

If you haven't done so already, turn on the computer.

If the 3000i is in Standby mode, press the **Lamp On** button on the control panel to restore power to the projector lamp.




### To start the 3000i

The following table explains how you can restore the 3000i to a fully operational state.

| What You See   | What You Should Do   |
|--|--|
| The screen is black and the Lamp On LED is blinking intermittently (short flashes between long pauses) | The projector is in Standby mode (with the lamp off).<br><br>Press the <b>Lamp On</b> button on the control panel. The Lamp On LED indicator blinks quickly as the lamp warms up. After approximately 60 seconds, a No Input message appears (see below) or the screen is restored to its last active state.   |
| The No Input message appears and the Lamp On LED is steadily illuminated                               | The projector lamp is on but you've selected an inactive display source or the computer is off or in Standby mode.<br><br>Press a key on the connected keyboard to activate the computer.<br><br>OR<br><br>Press a source button on the control panel to select an active source. If the No Input message remains, turn the computer on (or press the computer's reset button) and log on as usual (using the connected keyboard). |

| What You See   | What You Should Do  |
|--|---|
| The screen is black and the Lamp On LED is blinking slowly   | No action is necessary. The projector lamp is turning on, and the logon screen will appear after approximately 60 seconds.  |
| The screen is black and the Lamp Off LED is blinking rapidly   | The projector lamp is in Reversible Standby mode. If you don't press a button to restore the image, after three minutes the On LED indicator blinks slowly for 60 seconds as the lamp turns off and cools down. At this point, follow the first set of instructions in this table to restore the 3000i to an operational state. |
| The logon screen appears   | The projector lamp is still on, so you can log on as usual (using the connected keyboard).  |
| The Lamp On LED continues to blink intermittently, even though it's been pressed to start the system | Projector problems are preventing the projector lamp from warming normally. Examine the projector status LED indicator, and then consult the troubleshooting section of the NEC VT595 user's manual.  |
| The Lamp Off and On LEDs are both flashing constantly  | The system can't detect a projector. Check the NEC VT595 user's manual to make sure the projector is connected properly.  |

## Putting the 3000i into Standby Mode

|  |   |
|--|---|
|  | <p><b>CAUTION</b> The projector inside the 3000i has been designed for use under normal operating conditions only. Normal operating conditions are defined as product use that does not exceed eight hours per day and 260 days per year. Exceeding these operating conditions could cause projector damage. Damage caused by such extended use won't be covered by the product warranty.</p> |
|--|---|

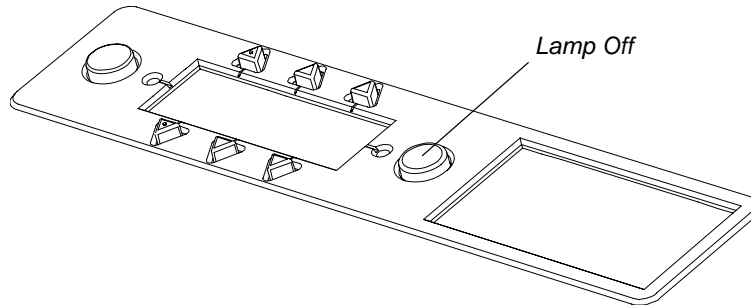
At the end of a session, log off the computer (for security) and put the 3000i into Standby mode to turn off the projector lamp and conserve the lamp's life. For additional security, close and lock the cabinet's front doors.

To maintain normal operating conditions, make sure the projector is in Standby mode outside of normal, daily (eight hour) operation. In Standby mode, the lamp is turned off, and the projector remains on.

You can also configure the computer's power management settings so that the computer stops sending a video signal after a period of idle time, turning off the projector lamp. For more information, see page 13.

## To put the 3000i into Standby mode

1. Log off the computer (at the end of a session) or shut down the computer (at the end of the day).
2. Press the **Lamp Off** button to put the projector into Reversible Standby mode for three minutes.



The projector lamp remains on for three minutes so you can immediately restore the image by pressing any button on the control panel. After three minutes have elapsed, the lamp cools down for 60 seconds and then turns off.

To skip Reversible Standby mode, press and hold the **Lamp Off** button for three seconds, and then release the button. The lamp cools down for 60 seconds and then turns off.

## Turning off the 3000i

If you won't use the 3000i for an extended period, turn off the projector.

### To turn off the projector

1. Shut down the computer.
2. Press and hold the **Lamp Off** button for three seconds. The lamp turns off immediately and enters a 60-second cool-down period.
3. When the cooling fan stops, turn off the main power switch on the back of the projector.
4. Disconnect the 3000i power cable from the power outlet.

## Using the SMART Board Interactive Whiteboard

Touch control is enabled after you connect the computer to the 3000i and install SMART Board software. However, to get the most from the 3000i, open the SMART Board tools. When SMART Board tools are open, the SMART Board icon appears in the notification area (Windows computers) or in the Dock (Macintosh computers).



SMART Board software also allows you to customize the pen tray tools. You can change the eraser size and the color and transparency of the pen tools.

### Using the pen tray tools

Using a pen tray pen, you can write over the computer image with digital ink. You can use SMART Board software to change any of these pens to highlighters, assign a new color, or alter their width. You can also change the size of the area erased by the pen tray eraser. For more information on customizing the pen tray tools, see the SMART Board software Help.

**NOTE:** The supplied pens have black tips because the digital cameras that detect contact with the interactive surface can more readily detect dark objects. If you use a different pen, choose one with a dark tip.

### Using the pen tray buttons

You can press the top pen tray button to make the SMART Keyboard appear for on-screen typing. Press the bottom button to make the next contact with the interactive screen a right-click. You can also reconfigure these buttons to perform other functions. For more information on using and customizing the pen tray buttons, see the SMART Board software Help.

### SMART Board tools

The SMART Board tools provide all the interactive features beyond basic touch control and pen tray button use. You can use the SMART Board tools to configure the pen and tool capabilities and access SMART Video Player, SMART Recorder and the on-screen keyboard.

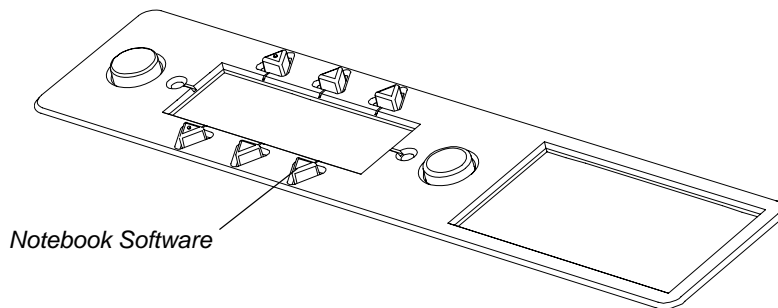
**NOTE:** The available tools vary between operating systems.

The SMART Board tools must be running before you can use the pen tray pens and eraser. If you want to write on the interactive whiteboard with a pen tray pen, make sure the SMART Board icon appears in the notification area (Windows computers) or Dock (Macintosh computers).

### Notebook software

Notebook software enables you create a variety of annotations and import graphics, text, clip art and entire files from any other application. It can also capture anything you write on the interactive whiteboard over any application. For more information, see the SMART Board software Help.

To launch SMART Notebook software, press the **Notebook Software** button on the control panel.



**NOTE:** This button works only when SMART Board software is installed and running on the internal computer (see page 18).

### Using Floating Tools

Floating Tools are a virtual version of the pen tray tools. For example, press the **Pen** button and then touch and drag on the screen to produce a line of digital ink. The Floating Tools also include a number of features that you won't find in the pen tray, such as producing a spotlight, capturing your notes and restoring cleared notes. For more information on using the Floating Tools, see the SMART Board software Help.

To open the Floating Tools, press and hold the **Notebook** button for three seconds, or press the **SMART Board** icon in the notification area (Windows computers) or in the Dock (Macintosh computers), and select **Floating Tools**.

## LinQ software

Using LinQ software, you can link a laptop to a SMART interactive product. After you establish the connection, you can use LinQ software to show the laptop's video output on the interactive screen.

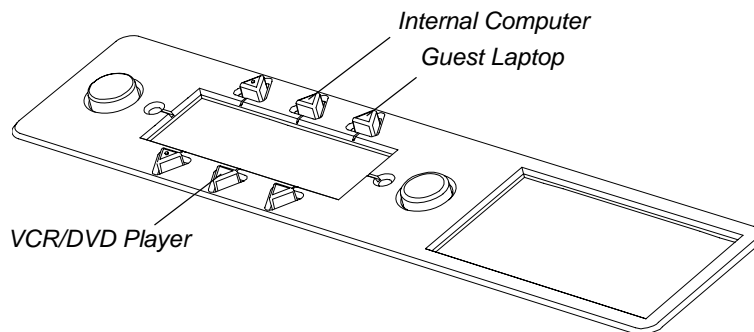
To establish a communication link between the 3000i and the laptop, you must:

- install and run LinQ software on the laptop computer
- be connected to the same network as the 3000i's internal computer
- run the mobile device manager software on the 3000i's internal computer

For more information on LinQ software and the mobile device manager, see [www.smarttech.com/support/software/index.asp](http://www.smarttech.com/support/software/index.asp).

## Changing the Display Source for the Projector

You can use the three source buttons on the control panel to change the video and audio input source for the projector. Choose from the internal computer, a connected guest laptop or external computer (with the optional Guest Laptop Support kit), a VCR or DVD player.



**NOTE:** Switching sources takes a few seconds, and all the buttons on the control panel are disabled during that time.

### To switch to a connected VCR or DVD player

Press the **VCR/DVD Player** button on the control panel.

If both a VCR (composite video connection) and a DVD player (S-video connection) are connected to the projector, pressing this button switches between the two. There is a three-second delay before the alternate display source appears.

When you press the **VCR/DVD Player** button, you switch to the input source that was last active. For example, if you view a DVD and then switch to the computer, pressing the **VCR/DVD Player** button will switch the display source to the DVD player.

### To switch to the internal computer

Press the **Internal Computer** button on the control panel.

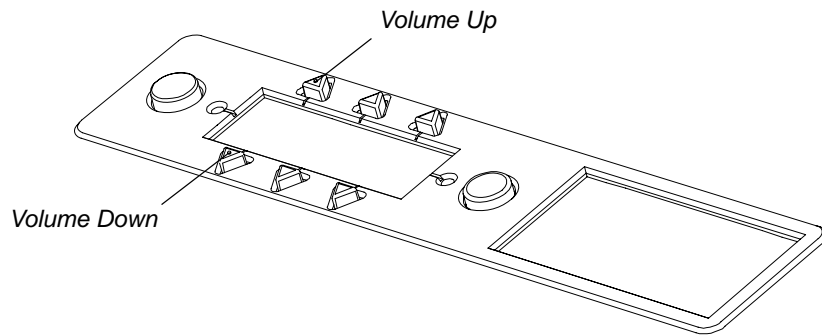
### To switch to a guest computer (with the optional Guest Laptop Support kit only)

Press the **Guest Laptop** button on the control panel.

## Adjusting the Volume

To increase the volume, press and hold the **Volume Up** button on the control panel.

To decrease the volume, press and hold the **Volume Down** button on the control panel.



To restore the default volume level (no sound), press and hold both **Volume** buttons simultaneously.

# Maintaining the 3000i

---

This section shows you how to:

- clean the interactive whiteboard and other components (this page)
- clean the projector (page 26)
- clean the projector's filter (page 26)
- replace the projector's lamp and filter (page 26)
- restore the projector's settings (page 27)
- calibrate the cameras (page 28)

## Cleaning the Screen and other Components

Before you clean the interactive whiteboard, turn off the computer. If you touch the screen when the computer is in any other state, you may activate program components or scramble desktop icons. Put the projector into Standby mode so you can see dirt and streaks on the screen.

Clean the screen surface regularly so dust buildup doesn't disrupt the operation of the 3000i. Don't spray glass cleaner directly onto the screen surface. Instead, spray the cleaner lightly on a cloth and then gently wipe the screen surface.

The cameras are well protected from dust and dirt, so you should clean the lenses only occasionally. When you do so, don't spray glass cleaner directly onto the lens. Instead, spray the cleaner onto a cotton-tipped swab and rub it gently on the lens. If excess glass cleaner flows into the crack between the frame and the screen, the fluid could damage the cameras.

If there is permanent marker ink on the screen, you can remove it by completely covering it with the ink from a dry-erase marker (but *not* a low-odor marker), and then wiping the screen with a soft cloth. If any trace of the original permanent ink remains, spray a cloth with standard, alcohol-free glass or whiteboard cleaner, and gently wipe clean.

The back of the interactive whiteboard screen is well protected from handling by its location on the inside of the unit. However, if it must be dusted, or if a mark has been made on its surface, dab it gently with a soft cloth that's sprayed with standard, alcohol-free glass cleaner. Don't apply the cleaner directly to the surface.

### CAUTION



Don't, under any circumstances, apply isopropyl alcohol, water or acetone to the rear surface of the interactive screen. These fluids damage the diffusion coating, resulting in a permanent deterioration in display quality.

Periodically dust the mirrors and unit components using a soft cloth. To clean the mirrors, use a standard, alcohol-free glass cleaner.

## Cleaning the Projector

Clean the projector and its lens periodically.

### To clean the projector

1. Shut down the computer and the projector.
2. Wipe the projector's casing with a damp cloth. If necessary, use a mild detergent. Don't use a strong detergent or a solvent, such as alcohol or thinner.
3. Carefully wipe the lens with lens paper.

#### CAUTION



Be careful not to scratch or mark the lens.

## Cleaning the Projector Filter

The projector's filter protects the inside of the projector from dust. Clean this filter after every 100 hours of operation. After every 100 hours of operation, a "Please Clean Filter" message appears on the screen.

#### CAUTIONS



Clean the outside of the filter cover only.

Don't operate the projector when the filter cover is detached.

### To clean the filter

1. Using a vacuum cleaner, clean the filter through the filter cover, as described in the NEC VT595 user's manual.
2. To clear the "Please Clean Filter" message, reset the filter hours as follows.
  - i. Press the **Menu** button on the projector's remote control.
  - ii. Press the down arrow to highlight the **Reset** option and press the **Enter** button.
  - iii. Press the down arrow to highlight the **Clear Filter Hours** option and press **Enter**.  
A message appears asking for confirmation.
  - iv. Select **Yes**, and press **Enter**.
  - v. Press the **Exit** button twice to close the menu.

## Replacing the Projector Lamp and Filter

When the lamp nears the end of its life, a message appears, prompting you to replace it. When the lamp reaches the end of its life, the projector automatically goes into Standby mode and stays in Standby mode until you replace the lamp.

#### CAUTIONS



Replace the projector lamp only with the NEC VT85LP lamp (SMART part number 01-00227). These lamps are available from NEC or SMART. Don't use any other lamps.



You can view the remaining lamp time as a percentage of its expected life and the length of time the lamp has been in use.

### To view the lamp hour meter

1. Press the **Menu** button on the projector's remote control.
2. Press the down arrow to highlight the **Information** option.  
The *Information* submenu displays the remaining lamp time as a percentage of its expected life and the length of time the lamp has been in use.
3. Press the **Exit** button to close the menu.

### To replace the projector lamp and filter

1. Remove the projector from the cabinet, following the instructions on pages 29 and 30 of this guide.
2. Replace the filter as described in the NEC VT595 user's manual.
3. Replace the projector lamp as described in the NEC VT595 user's manual.
4. Install the projector in the cabinet, reverse the instructions on pages 29 and 30 of this guide.

### To clear the lamp hour meter

1. Press the **Menu** button on the projector's remote control.
2. Press the down arrow to highlight the **Reset** option and press the **Enter** button.
3. Press the down arrow to highlight the **Clear Lamp Hours** option and press **Enter**.  
A message appears asking for confirmation.
4. Select **Yes** and press **Enter**.
5. Press the **Exit** button twice to close the menu.

## Restoring Projector Settings

If the optimal projector settings are accidentally altered, use the following procedure to restore them.

### To restore the projector's optimal settings

1. Press the **Menu** button on the projector's remote control.
2. Select **Preset** and press the **Enter** button on the projector's remote control. Select **High-Bright** and press the **Enter** button.  
**NOTE:** The **High-Bright** option provides the brightest image, but it also reduces the life of the lamp. To display an acceptable image without reducing the lamp's life, select the **Presentation** picture setting.
3. Press the down arrow to highlight the **Setup** option and press **Enter**.
4. Press the down arrow to highlight the **Auto Keystone** option, select **Off** and press **Enter**.
5. Select the **Installation** tab.

6. Press the down arrow to highlight the **Orientation** option, select **Ceiling Rear** and press **Enter**.
7. Select the **Options** tab.
8. Press the down arrow to highlight the **Auto Adjust** option, select **Normal** and press **Enter**.  
**NOTE:** When the projector's auto adjust setting is normal, it automatically determines the best resolution for the current RGB input signal, compensating for resolution differences among various input devices (such as guest laptops).
9. Press the down arrow to highlight the **Fan Mode** option, select **Auto** and press **Enter**. Although this is a default setting, it's important enough to warrant special mention.  
**NOTE:** All other settings are the NEC factory default settings. See the NEC VT595 user's manual for a full description of on-screen menus and settings.
10. Press the **Exit** button twice to close the menu.

## Calibrating the Cameras

Each digital camera in the interactive screen is calibrated to recognize the position of a pen tray tool or your finger on the screen's surface and to send this information to SMART Board software. The software then interprets the information as mouse clicks or digital ink in the appropriate location.

If the cameras become misaligned for any reason, you may notice gaps in your writing or an area of the screen may become unresponsive to your touch. Fortunately, you can fix this problem by performing a calibration procedure. For more information, see the SMART Board software Help.

# Appendix A: Removing and Replacing the Projector

To remove the projector, you must remove the 3000i's rear access panel, disconnect the projector's cables and detach the projector.

**CAUTION**



Don't touch the rear surface of the screen or apply isopropyl alcohol, water or acetone to it. These fluids will damage the diffusion coating, resulting in a permanent deterioration in display quality.

## To remove the projector

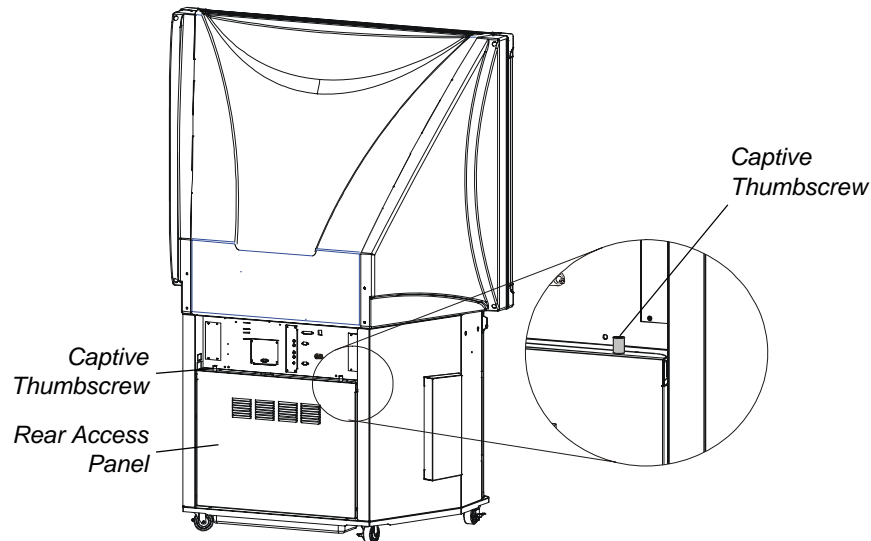
1. Turn off the 3000i following the instructions on page 21 of this guide.

**CAUTION**



After you turn off the projector, allow at least one minute to elapse before you disconnect the 3000i's power cord from the power outlet. Don't touch or replace the projector lamp (which will be very hot) for at least an hour.

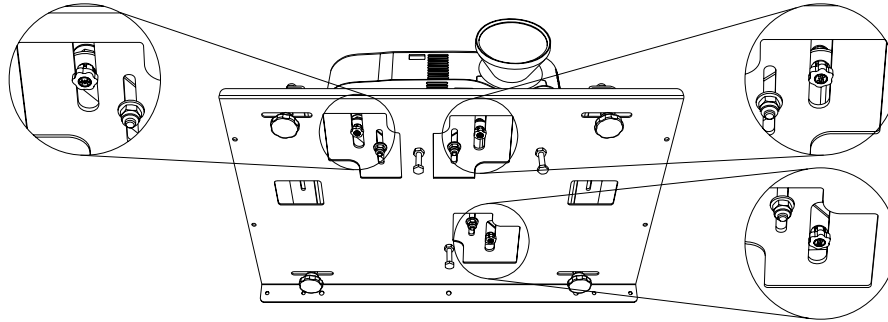
2. At the rear of the cabinet, loosen the two captive thumbscrews at the top of the rear access panel.



3. Rotate the top of the rear access panel toward you and then pull it up, releasing it from the cabinet. Put the rear access panel in a safe place.
4. Disconnect all of the cables from the projector, including the power cable.

**NOTE:** The projector cables are labeled so that you can restore these connections.

5. Loosen the three fasteners that attach the projector to the mounting plate using a flathead screwdriver (not supplied).



**NOTE:** Don't change the position of any other screws, bolts or knobs.

6. Lift the projector off the mounting plate and remove it from the cabinet.
7. Carefully place the projector on a flat surface.

**NOTE:** If you've removed the projector in order to replace the lamp, see the NEC VT595 user's manual for further information.

**WARNING**



*Don't touch or replace the projector lamp (which will be very hot) for at least an hour after turning off the projector.*

**TIP**



Prior to reinstalling the projector, clean the small mirror in the cabinet and the projector's lens. To clean the lens, carefully wipe with lens paper. To clean the small mirror, spray a cloth with standard, alcohol-free glass cleaner and gently wipe clean.

**NOTE:** To install the projector, follow the above instructions in reverse.

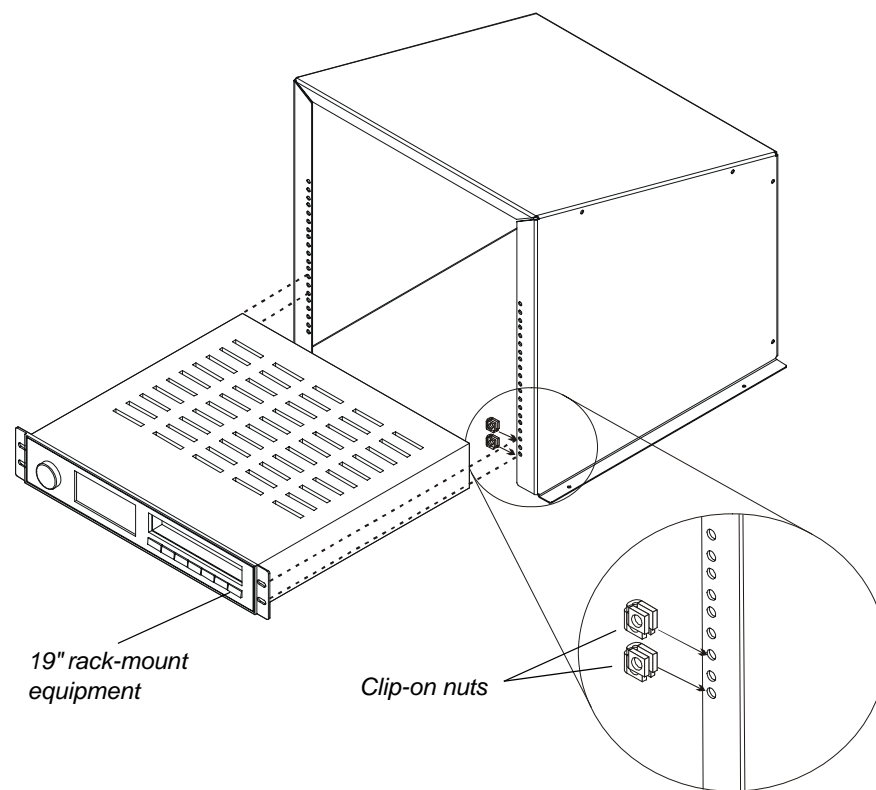
## Appendix B: Connecting Rack-Mount Equipment to the Projector Platform

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Use the supplied clip-on nuts to secure the rack-mount equipment to the sides of the projector platform, just below the projector itself. The projector platform can accommodate rack-mount equipment with a width of 19" (48.3 cm).

### To connect rack-mount equipment to the projector platform

1. Attach the clip-on nuts from the accessory kit to the sides of the projector platform.
2. Connect the rack-mount equipment to the clip-on nuts using 10-32 x 1/2" fasteners (not supplied).





# Waste Electrical and Electronic Equipment Regulations

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Waste Electrical and Electronic Equipment (WEEE) 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.





# Customer Support

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## Training

Do you need training on your SMART product? Visit <http://www.smarttech.com/trainingcenter> for free training materials and information on our training services.

## Contacting SMART Technical Support

SMART's Technical Support team welcomes your call. However, you may first want to contact your local reseller if you experience any difficulty with your 3000i, as they may be able to solve the problem without delay.

All SMART products include free telephone, fax and e-mail support.

|                   |  |
|-------------------|--|
| <b>Telephone:</b> | 1.866.518.6791 (toll-free in Canada/U.S.) or<br>+1.403.228.5940 (all other countries)<br><br>(Available 7 a.m. – 6 p.m. Mountain time from Monday to Friday) |
| <b>Fax:</b>       | +1.403.802.1256  |
| <b>E-mail:</b>    | support@smarttech.com  |
| <b>Website:</b>   | www.smarttech.com/support  |

When you phone Technical Support, it will be helpful if you have access to your 3000i during the call. The support representative may ask you for the following information:

- the serial number of the unit
- the version of the software that's causing the problem and the version of your computer's operating system (if applicable)

## General Inquiries

|                          |  |
|--------------------------|--|
| <b>Main Switchboard:</b> | 1.888.42.SMART (toll-free in Canada/U.S.) or<br>+1.403.245.0333 (all other countries)      |
| <b>Fax:</b>              | +1.403.228.2500  |
| <b>E-mail:</b>           | info@smarttech.com   |
| <b>Address:</b>          | SMART Technologies Inc.<br>1207 – 11 Avenue SW, Suite 300<br>Calgary, AB T3C 0M5<br>CANADA |

## 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**

A User Registration card was included with your 3000i. To help us serve you, fill in and mail this card to SMART Technologies Inc. or register online at [www.smarttech.com/registration](http://www.smarttech.com/registration).

## **Sending Feedback**

You can help us improve our technical documentation by e-mailing your comments to [Documentation@smarttech.com](mailto:Documentation@smarttech.com).

## **Obtaining More Information on SMART Products**

Visit [www.smarttech.com/support](http://www.smarttech.com/support) to:

- download PDF versions of our user guides, installation instructions and more
- read technical bulletins, FAQs and tips
- troubleshoot a problem
- explore our resource centers to learn about conferencing and room control systems

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