SMART Board®
800
series interactive whiteboards

User guide

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This guide and other resources for SMART Board 800 series interactive whiteboards are available in the Support section of the SMART website (smarttech.com/support). Scan this QR code to view these resources on your mobile device.

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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This product and/or use thereof covered by one or more of the following U.S. patents: smarttech.com/patents. Other patents pending.

May 23, 2024

Important information

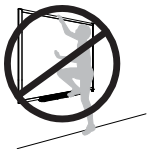
Before you install and use the SMART Board® 800 series interactive whiteboard, read and understand the safety warnings and precautions in this guide. These safety warnings and precautions describe the safe and correct operation of the interactive whiteboard and its accessories, helping you to prevent injuries and equipment damage. Ensure that the interactive whiteboard system is always being used correctly.

> **Note**
>
> In this document, the term "interactive whiteboard" refers to the interactive whiteboard and its accessories and options.

Safety warnings and cautions

Warning

- Ensure that any cables extending across the floor to the SMART product are properly fastened together and marked to avoid a trip hazard.
- To reduce the risk of fire or electric shock, do not expose the SMART product to rain or moisture.
- Refer to the safety warnings and precautions published by the projector manufacturer. Do not stare (or allow children to stare) directly into the projector's beam of light.
- Do not touch (or allow children to touch) the projector. It can become extremely hot during normal operation.
- Do not stand (or allow children to stand) on a chair to touch the surface of the SMART product. Instead, safely fix the product at the appropriate height on a wall or use a SMART height-adjustable floor stand.
- Do not climb (or allow children to climb) on a wall- or stand-supported SMART Board interactive whiteboard.



- Safely mounting the interactive whiteboard requires two people because it is too heavy for one person to safely maneuver. When you and your assistant lift the interactive whiteboard, support its weight at the bottom, avoiding the corner cameras, and balance the top with your other hands.
- The weight of the interactive whiteboard is approximately 52 lb. (23.7 kg) for the SMART Board 880 interactive whiteboard and 61 lb. (27.5 kg) for the SMART Board 885 interactive whiteboard. Check your local building codes to ensure that the wall can support this weight, and use appropriate mounting hardware for the type of wall.
- To prevent injury or product and property damage, use only the mounting hardware supplied with the SMART Board 800 series interactive whiteboard when you install the product on drywall. The mounting hardware provided with other interactive whiteboards may not be strong enough to support the weight of a SMART Board 800 series interactive whiteboard.
- Use two wall-mounting brackets to install SMART Board interactive whiteboards with a diagonal width of 87" (221 cm).
- For operating safety and to prevent damage to the interactive whiteboard, connect its USB connector, or SMART connection extenders, only to a computer that has a USB compliant interface and that bears the USB logo. In addition, the USB source computer must be compliant with CSA/UL/EN 60950 and bear the CE mark and CSA and/or UL mark(s) for CSA/UL 60950.
- To prevent injury or product damage as a result of tipping, mount the interactive whiteboard only on a floor stand that is certified for use with SMART Board 800 series interactive whiteboards, such as the SMART FS670 Mobile Floor Stand or SMART HAWM FS-UX Mobile Height-Adjustable Floor Stand. Do not modify the interactive whiteboard or the floor stand to make them compatible.
- Move a floor stand-supported SMART Board interactive whiteboard with care. Sudden stops, excessive force and uneven surfaces may cause the product to overturn.

⚠ **Caution**

- If you're replacing a SMART Board 500 or 600 series interactive whiteboard with the heavier SMART Board 800 series interactive whiteboard on drywall, you must remove the wall-mount bracket and mounting hardware, and then install all the mounting hardware and brackets supplied with the SMART Board 800 series interactive whiteboard instead.
- If you need to lean your interactive whiteboard against a wall, make sure that it remains in an upright position, resting on its pen tray brackets, which are designed to sustain the interactive whiteboard's weight. Do not rest the interactive whiteboard on its side, on the top of its frame or on the corners of the frame where the cameras are located.

- Do not add any extra weight or pressure to a wall-mounted interactive whiteboard or its pen tray. SMART designed the brackets to support only the weight of the interactive whiteboard and its accessories during normal use.
- There are no user-serviceable parts inside the pen tray.
- When transporting the SMART Board interactive whiteboard, repack it with the original packaging. This packaging was designed to provide the best possible protection against shock and vibration.
- Do not use compressed air to clean the cameras.
- Do not allow cleaner to flow onto the infrared (IR) reflective material at the edges of the interactive whiteboard frame, or into the pen tray slots.
- Do not set up and use the interactive whiteboard in an area with excessive levels of dust, humidity or smoke.
- If the SMART Board interactive whiteboard requires replacement parts, make sure that the service technician uses replacement parts specified by SMART Technologies.

Other precautions

If you own a SMART product other than a SMART Board 800 series interactive whiteboard, refer to the installation manual for that product for relevant warnings and maintenance instructions.

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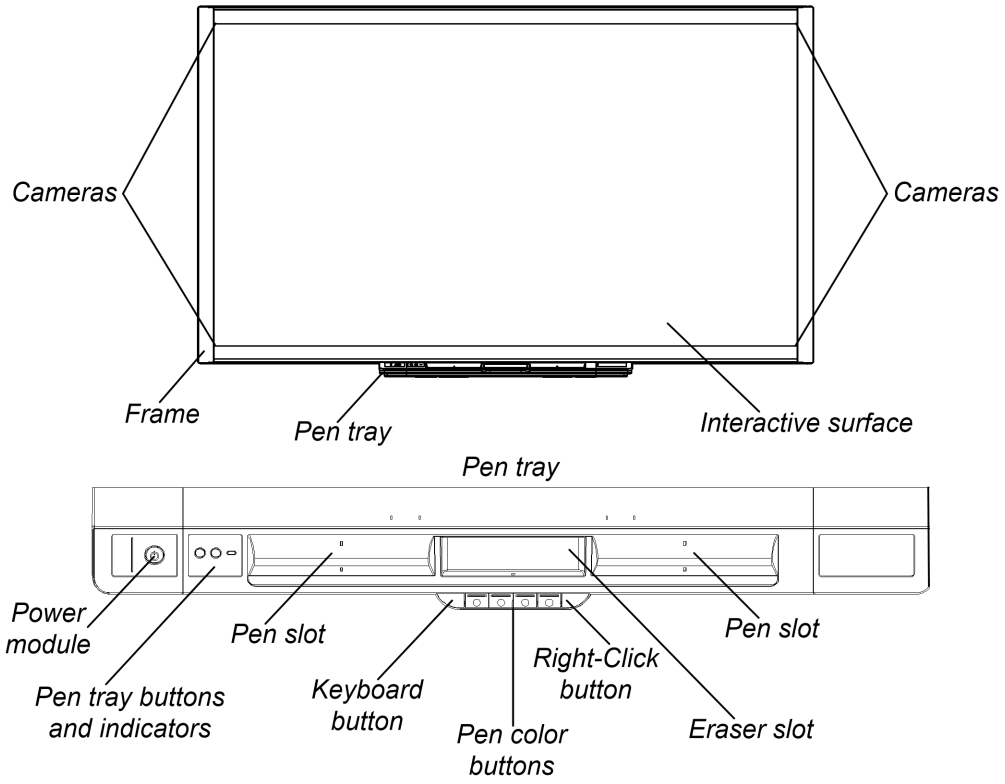
The SMART Board 800 series interactive whiteboard is the most advanced and intuitive touch sensitive, front projection interactive whiteboard in the world, featuring SMART's proprietary DViT® (Digital Vision Touch) technology. Its modular and expandable hardware and software architecture enables you to do everything you can do at your computer—open and close applications, meet with others, create or edit documents, visit websites, play and manipulate video clips and more—just by touching the interactive surface.

When you use SMART software, you can also write over any application in digital ink using a pen tray pen or your finger, and then save these notes for future reference and distribution.

Identifying the components of the SMART Board 800 series interactive whiteboard

Use the following illustration to familiarize yourself with the parts of the interactive whiteboard.



Notes

- Your interactive whiteboard's pen tray might look different than the one illustrated above. The is because the left and right sides of the pen tray are modular.
- The modular options for the left side of the pen tray include the basic power module (illustrated above), the Extended Control Panel (ECP), and the Appliance Control Panel (ACP).
- The module options for the right side of the pen tray include the blank cover (illustrated above), a CAT 5 USB extender module, and a wireless connection module.

Highlights

Software

To use all the interactive whiteboard's features, ensure that you have the latest version of SMART software and SMART Product Drivers installed on your computer. You can download the latest software from smarttech.com/downloads.

Dual sketch capabilities

Two people can each pick up a pen and draw on the interactive surface at the same time, providing a higher degree of interactivity.

SMART Ink

The SMART Ink™ feature smoothes out the appearance of the digital ink, which improves the legibility of your handwriting as you write over applications, websites and videos. The ink becomes an object that you can move and manipulate.

Touch and gestures

You can perform mouse functions with your finger, and write and erase digital ink with a pen tray pen or the eraser. The object awareness feature enables you to pick up a pen, and then write, select or erase without replacing the pen.

Pen tray

The SMART Board 800 series interactive whiteboard features a modular pen tray with an intuitive new design. As well as two pens and an eraser, pen tray buttons activate the pen's color, the on-screen keyboard, right-click, Orientation and Help functions.

Optional Extended Control Panel (ECP), Appliance Control Panel (ACP), CAT 5 USB extender, and wireless connection modules are also available.

Durable surface and dry erase

The hard-coated surface is scratch resistant, optimized for projection, compatible with dry-erase markers and easily cleaned.

Wall-mount bracket

Wall mount brackets enable you to install the SMART Board interactive whiteboard simply and securely.

Cables

Connect the SMART Board interactive whiteboard to your computer with the included, standard USB cable, and to a wall outlet with the included power supply and cords.

Security cable lock

Lock the interactive whiteboard with a security cable (not included) to help safeguard it from theft.

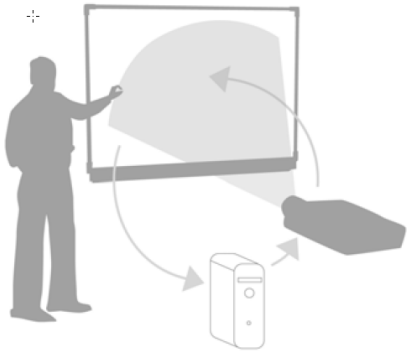
Understanding how the SMART Board interactive whiteboard works

The interactive whiteboard functions as an input device for a computer, just like a mouse, enabling you to work in any application on the computer from the interactive whiteboard.

When you touch the interactive whiteboard's surface, the four cameras located in the interactive whiteboard's corners detect the contact's horizontal and vertical (or x,y) coordinates. The computer interprets these coordinates and moves the pointer to the corresponding location on the interactive whiteboard's surface.

Other components

Using the interactive whiteboard requires two additional components: a computer and a digital projector.



These components work together as follows:

- The computer runs an application and sends the image to the projector.
- The projector casts the image onto the interactive whiteboard.
- The interactive whiteboard acts both as your computer's monitor and its input devices, that is, its mouse and keyboard, enabling you to control any application by touching the interactive surface.

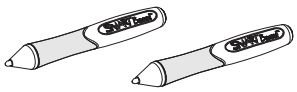
When you install SMART Product Drivers on the computer, the touch of your finger on the interactive surface becomes a mouse click, enabling you to control the computer from the interactive whiteboard. When you use a pen from the pen tray, the system detects which tool you're using.
SMART Product Drivers then interacts with the computer's mouse driver to change the pointer to a colored pen, enabling you to write in digital ink on the desktop or any open application. When you use the eraser, you can erase the digital ink. You can even use your finger on the interactive whiteboard's surface without returning the pen tray tools—automatic object awareness determines the tool you're using on the interactive surface. You can also save your notes to a .notebook file, or directly into any Ink Aware application.

Included parts and accessories

The SMART Board 800 series interactive whiteboard includes the following accessories.

Pens

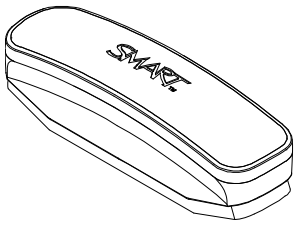
There are two pens included with the interactive whiteboard. Pick up a pen and press one of the four color buttons on the pen tray (black, red, green or blue) to change the color of digital ink you write with on the interactive whiteboard.



> **Tip**
>
> To learn how to distinguish SMART Board 800 series interactive whiteboard pens from other SMART product pens, see *SMART product pens comparison* (docs.smarttech.com/kb/171230).

Eraser

The eraser is rectangular like a traditional chalkboard eraser.

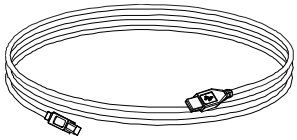


Wall-mounting kit

The 32" (81.3 cm) wall-mount bracket comes with five screws and toggle bolts, enabling you to wall-mount the interactive whiteboard simply and securely. SMART Board 885 interactive whiteboards come with two wall-mounting kits.

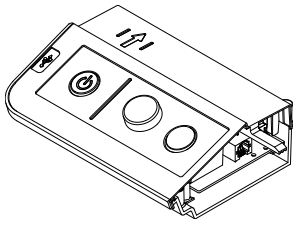
USB cable

A 16' 5" (5 m) USB cable enables you to connect your SMART Board 800 series interactive whiteboard to a USB receptacle on your computer.



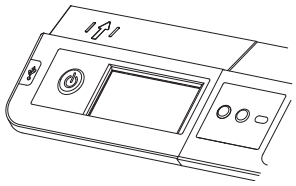
Extended Control Panel (ECP)

If your interactive whiteboard is bundled with a SMART or Epson for SMART projector as part of a projector system, the Extended Control Panel (ECP) attaches to the left side of the interactive whiteboard pen tray. The ECP features controls for power, source selection and volume adjustment, as well as a USB A receptacle for USB drives.



Appliance Control Panel (ACP)

If your interactive whiteboard is bundled with a SMART projector and appliance as part of a projector system, the Application Control Panel (ACP) attaches to the left side of the interactive whiteboard pen tray. The ACP features a power button and LCD control screen.



Power supply

The SMART Board 800 series interactive whiteboard receives power from a wall outlet through the included country-specific power supply and cables.

> **Note**
>
> If your interactive whiteboard is bundled with a SMART projector as part of a projector system, power for the interactive whiteboard is provided by the SMART projector through a separate power supply.

Optional accessories

You can add a variety of optional accessories to the SMART Board 800 series interactive whiteboard to best meet your specific needs, including a CAT 5 USB extender module or a wireless connection module.

You can purchase these items when you order an interactive whiteboard, or later from your authorized SMART reseller (smarttech.com/us/Where). For more information about accessories, go to smarttech.com/accessories.

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Environmental requirements

Before installing the interactive whiteboard, review the following environmental requirements.

Environmental requirement	Parameter
Operating temperature	41°F to 95°F (5°C to 35°C)
Storage temperature	-40°F to 120°F (-40°C to 50°C)
Humidity	5% to 80% relative humidity, non-condensing
Water and fluid resistance	• Intended for indoor use only. Doesn't meet any salt-spray or water ingress requirements. • Don't pour or spray liquids directly onto the interactive whiteboard or any of its sub-components. These liquids might get into areas where they could damage sensitive electronic components. Refer to *Keeping the writing surface clean* on page 44 for detailed instructions on cleaning the interactive whiteboard.
Dust	• Moderate dust. Intended for use in office and classroom environments. Not for industrial use where heavy dust and pollutants can cause malfunctions or impaired operation. • Designed for pollution degree 1 (P1) as per EN61558-1, which is defined as "No pollution or only dry non-conductive pollution."
Conducted and radiated emissions	EN55022/CISPR 22, Class A

Installing the SMART Board interactive whiteboard

Follow the procedure outlined in the installation document included in the interactive whiteboard's box to install the interactive whiteboard. If you purchased a floor stand, wall-mount or an interactive whiteboard system that includes a projector or other components, refer to the installation documents included with these components. The optimal mounting height is 77" (196 cm) from the floor to the center of the installation brackets. However, consider the general height of your user community when you choose a location for wall-mounting the interactive whiteboard. If you mount the interactive whiteboard too low, it might force tall people to bend over uncomfortably. If it's too high, other people might need to reach up too far. Also remember to leave enough room on either side of the interactive whiteboard so that you can stand beside it.

Warning

- Safely mounting the interactive whiteboard requires two people. It is too heavy for one person to safely maneuver. When you and your assistant lift the interactive whiteboard, support its weight at the bottom, avoiding the corner cameras, and balance the top with your other hands.
- The weight of the interactive whiteboard is approximately 52 lb. (23.7 kg) for the 880 model and 61 lb. (27.5 kg) for the 885 model. Check your local building codes to ensure that the wall can support this weight, and use appropriate mounting hardware for the wall type.

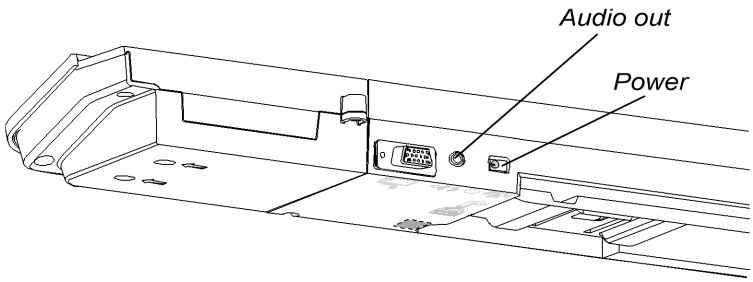
Caution

- If you need to lean the interactive whiteboard against a wall before you mount it, make sure it remains in an upright position, resting on the pen tray brackets, which can sustain the weight of the interactive whiteboard.
- Do not rest the interactive whiteboard on its side or on the top of the frame, or on the corners where the cameras are located.

Installation tips

- Ensure the bottom of the pen tray is unobstructed at all times, because you will need to access it if the interactive whiteboard requires service.
- Install the interactive whiteboard on a flat, plumb wall.
- If you're installing the interactive whiteboard on drywall, use all the toggle bolts supplied. Because one of the mounting bracket holes aligns with a wall stud, use appropriate hardware in that hole instead of a toggle bolt.

- Ensure that the power supply cable is connected to the correct receptacle in the pen tray, as shown below.

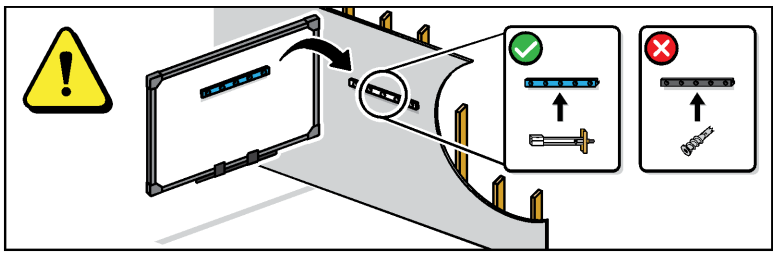


Replacing an existing interactive whiteboard on drywall

If you're replacing a SMART Board 500 or 600 series interactive whiteboard with the heavier SMART Board 800 series on drywall, you must remove the wall-mount bracket and mounting hardware, and then install all the mounting hardware and brackets supplied with the SMART Board 800 series interactive whiteboard instead.

Caution

To help ensure that the interactive whiteboard is mounted correctly, make sure the color of the wall-mount hanger on the back of the interactive whiteboard and the color of the wall-mount bracket are the same.



Securing the pen tray to the interactive whiteboard

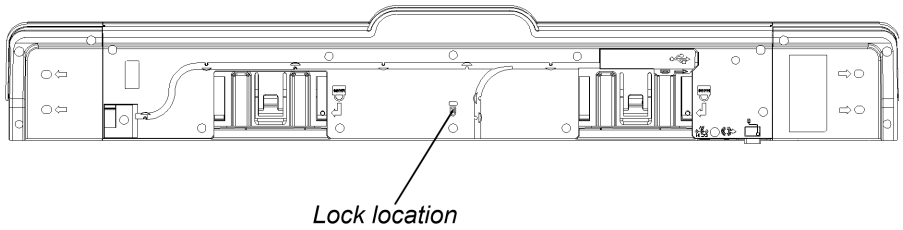
Because the pen tray is detachable, you might want to safeguard it—and the interactive whiteboard—by anchoring it with a security cable (not included). Underneath the pen tray, you'll find a lock slot that accommodates a security cable, such as a Kensington® lock.

Important

Securing the pen tray can provide theft deterrence for the interactive whiteboard because the screws that secure the interactive whiteboard to the wall are located directly behind the pen tray and cannot be removed without first detaching the pen tray. In effect, when you secure the pen tray, you also secure the interactive whiteboard if the security cable is tight.

To secure the pen tray to the interactive whiteboard

1. Loop the security cable behind the pen tray brackets before you secure them to the wall.
2. Thread the lock end of the cable through the loop end of the cable.
3. Verify that the cable is tight enough that you can't remove the pen tray while the lock is in place, and then install the pen tray.
4. Insert the prong end of the security cable into the lock slot, and then complete the pen tray installation by locking it.

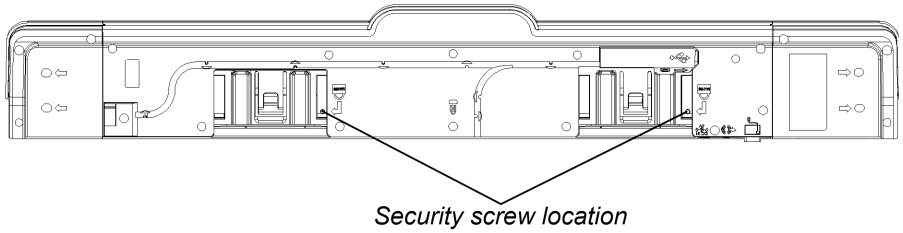


Securing the pen tray to the brackets

Because you can remove the pen tray without tools, you might want to securely attach it to its brackets.

To secure the pen tray to the brackets

Insert two No. 8/M4 screws (not included) into the holes indicated by a lock symbol on the bottom of the pen tray.



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After installing the interactive whiteboard, connect a computer to it. The interactive whiteboard will be touch sensitive after you install SMART Product Drivers on the connected computer.

You can also connect a guest laptop.

Connecting the interactive whiteboard to the computer

The interactive whiteboard has a USB 2.0 peripheral interface that runs at speeds of up to 12 Mbps. The unit works with full-speed USB 2.0- and USB 1.1-compliant interfaces.

Connect the interactive whiteboard and the computer using the included 16' 5" (5 m) USB cable.

How you connect the interactive whiteboard to the computer depends on how the interactive whiteboard is configured:

- If a basic power module is attached to the left side of the pen tray, connect the USB cable from the computer to the USB Type-B receptacle on the bottom of the pen tray.
- If an Extended Control Panel (ECP) or Appliance Control Panel (ACP) is attached to the left side of the pen tray, connect the USB cable from the computer to one of the USB Type-B receptacles on the ECP or ACP. The ECP or ACP then connects to the USB Type-B receptacle on the bottom of the pen tray.
- If a CAT 5 USB extender or wireless connection module is attached to the right side of the pen tray, use that module to connect the computer to the interactive whiteboard.

> **Warning**
>
> For operating safety and to prevent damage to the interactive whiteboard, connect its USB connector, or SMART connection extenders, only to a computer that has a USB compliant interface and that bears the USB logo. In addition, the USB source computer must be compliant with CSA/UL/EN 60950 and bear the CE mark and CSA and/or UL marks for CSA/UL 60950.

Consult the installation document included with the product for instructions on how to install, connect and secure the interactive whiteboard.

After the interactive whiteboard is installed and connected to your computer, you can install SMART Product Drivers.

Installing SMART Product Drivers

After you install SMART Product Drivers on the computer, the SMART Board interactive whiteboard's surface will respond to the touch of your finger or a pen tray pen. SMART Product Drivers includes the tools you need to control computer applications with your finger or a pen, and to write over them in digital ink.

> **Note**
>
> If you don't install SMART Product Drivers, interactive whiteboard tools such as the pens and the eraser don't work, but you can move the mouse pointer and perform mouse functions by touching the interactive surface.

To install SMART Product Drivers

1. Download the `SMART Product Drivers.exe` (Windows® computers) or `SMART Product Drivers.dmg` (Mac computers) file to the computer from the disc or link included with the interactive whiteboard or from smarttech.com/downloads.

   > **Note**
   >
   > In most cases, SMART Product Drivers is downloaded and installed automatically when you install SMART Notebook® or SMART Meeting Pro® software.

2. If necessary, turn on the projector to see the projected computer image on the interactive whiteboard.
3. Locate the installation program and follow the on-screen instructions to complete the installation.

   SMART System Menu opens automatically.

4. If SMART System Menu doesn't open:
   - On a Windows 7 computer, select **Start > All Programs > SMART Technologies > SMART System Menu**.

     On a Windows 8 computer, go to the *Apps* screen, and then scroll to and select **SMART Technologies > SMART System Menu**.

     On a Windows 10 computer, select **Start > All apps**, and then scroll to and select **SMART Technologies > SMART System Menu**.
   - If you have a Mac computer, open **Mac HD**, and then select **Applications > SMART Product Drivers > SMART Board Tools.app**.

   The Ready light in the interactive whiteboard's pen tray turns from flashing green to solid green and the SMART Board icon appears in the Windows notification area or Mac Dock, indicating that the interactive whiteboard is communicating successfully with SMART Product Drivers.

You can now pick up a pen from the pen tray and write over the desktop or any projected application, and use all the other features of the SMART software. For more information on using SMART software, press the SMART Board icon, and then select **Help**.

Configuring the computer settings

For optimal configuration, use the following settings for the computer connected to the interactive whiteboard.

Setting	Details
Recommended settings	Configure the computer's power management settings to turn off the monitor after one hour of inactivity and to put the hard disks 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). The computer will stop sending a video signal to the projector after a period of idle time, which may trigger the projector to go into standby mode. Similarly, you can put the projector in standby mode by following the manufacturer's instructions included with the projector. To change the settings, see the instructions included with your computer's operating system.

Setting	Details
Matching the computer's resolution to the projector's resolution	Ensure that the resolution settings for the projector and computer match. If the computer's resolution doesn't match the projector's native resolution, the image won't appear correctly or will be distorted. Determine the projector's native resolution, indicated in the projector's user's guide, and then set the computer's resolution to match. You can change the computer's resolution in Windows Control Panel or in the Mac System Preferences. If you need further help changing the computer's resolution, see the instructions included with your computer's operating system. See *Getting the Best Image Quality on Your SMART Board Interactive Whiteboard* (docs.smarttech.com/kb/127199) for more information. You might also 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 then adjust this rate up or down until you determine the ideal refresh rate. For more information on changing the computer's refresh rate, see the instructions included with your computer's operating system.

Calibrating and orienting the interactive whiteboard

Perform the brief calibration and user orientation procedures (page 22) to ensure the interactive whiteboard interprets the location of your touch accurately.

Connecting a guest laptop

If you want to connect a guest laptop without installing SMART Product Drivers on it, disconnect the USB cable from the resident computer, and then connect it to the laptop. You'll immediately have touch control of the interactive whiteboard, but won't be able to use digital ink. You'll also need to connect a video cable between the laptop and projector.

> **Note**
>
> With a laptop connected, the Ready light on your interactive whiteboard flashes until you install SMART Product Drivers. This is normal. See *Power buttons and indicators* on page 27 for more information about Ready light states.

You must also install SMART Product Drivers (refer to page 19) on your laptop if you want to use all the features of the interactive whiteboard.

Chapter 4 **Calibrating and orienting the interactive whiteboard**

Calibrating the interactive whiteboard 22
Orienting the interactive whiteboard 23

Perform the brief calibration and user orientation procedures to ensure the interactive whiteboard interprets the location of your touch accurately.

Calibrating the interactive whiteboard

Digital cameras in the corners of the interactive whiteboard track the position of the pens, eraser and your finger on the interactive surface, and then send the information to the SMART software. SMART software interprets this information as mouse clicks, digital ink or ink removal in the appropriate location.

The first time you connect the interactive whiteboard, you should see a pop-up bubble telling you to calibrate the interactive whiteboard. If you don't, press the **Help** button on the pen tray to start the calibration process as described below. This process ensures that the cameras accurately track your finger and the pens on the interactive surface.

> **Important**
>
> - If you have not used the interactive whiteboard before, you must perform a calibration. If the system detects incorrect calibration parameters, a warning bubble may also appear recommending that you perform a calibration.
> - Make sure the projected image fully spans the interactive surface.

To calibrate the interactive whiteboard

1. Click the SMART Board icon in the Windows notification area or Mac Dock, and then click SMART Settings.
2. Select **SMART Hardware Settings**.
3. If you have more than one SMART product connected, select the appropriate interactive whiteboard.

4. Click **Advanced Settings**, and then click **Calibrate**.

   The *Calibration* window opens. This can take a few moments while the system sets up.

5. Use the tip of a pen tray pen to press the red targets as they appear. Move the tip to the center of each target until the target turns green, and then lift the pen. When you remove the pen, the target moves to the next calibration point.

   > **Note**
   >
   > You can re-calibrate a target by pressing the left arrow key on the keyboard, or the **Keyboard** or **Right-click** buttons on the pen tray.

6. Continue until you have pressed all the targets.

   When you've pressed all the targets, a message appears saying that the calibration was successful, and then the orientation screen appears.

Orienting the interactive whiteboard

After you install SMART Product Drivers on the computer and calibrate the interactive whiteboard, an orientation screen appears. The 4-point orientation process ensures that the calibration coordinates are accurately associated with the relative location of the projected image on the interactive surface.

Orient the interactive whiteboard if the projector or interactive whiteboard has moved since you last used it, or whenever the mouse pointer isn't properly aligned with your finger or a pen tray pen when you touch the interactive whiteboard's surface.

To orient the interactive whiteboard

1. Press the **Orientation** button on the pen tray (see *Power buttons and indicators* on page 27).

   The orientation screen appears.

2. Pick up a pen from the pen tray.

3. Beginning at the upper-left corner of the screen, touch the center of the target firmly with the tip of the pen. When you remove the pen, the target moves to the next orientation point. Try not to flick the pen when you lift it from the interactive surface, and make sure that you lift it from the screen at a 90° angle.

> **Note**
>
> Although you can use your finger to orient your interactive whiteboard, a fine-point tool such as a pen tray pen provides greater precision when touching the targets. The more precisely you touch the targets, the more accurately your finger or pen tray pen appears on the interactive screen.

Good orientation point

Poor orientation point

(The pen touches the center of the target.)

4. Repeat step 3 until you complete the orientation process.

   The orientation screen closes.

> **Note**
>
> You can re-orient a target by pressing the left arrow key on your keyboard, or the **Keyboard** or **Right-click** buttons on the pen tray.

Chapter 5 **Using and maintaining the interactive whiteboard**

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Getting started

Once you install the SMART Board interactive whiteboard and software and complete the calibration and orientation, you can use the interactive whiteboard to write, erase and move objects, open applications, use Ink Aware programs and save your notes on the computer.

Turning the interactive whiteboard on and off

How you turn on the interactive whiteboard, computer, and projector depends on how the interactive whiteboard is configured:

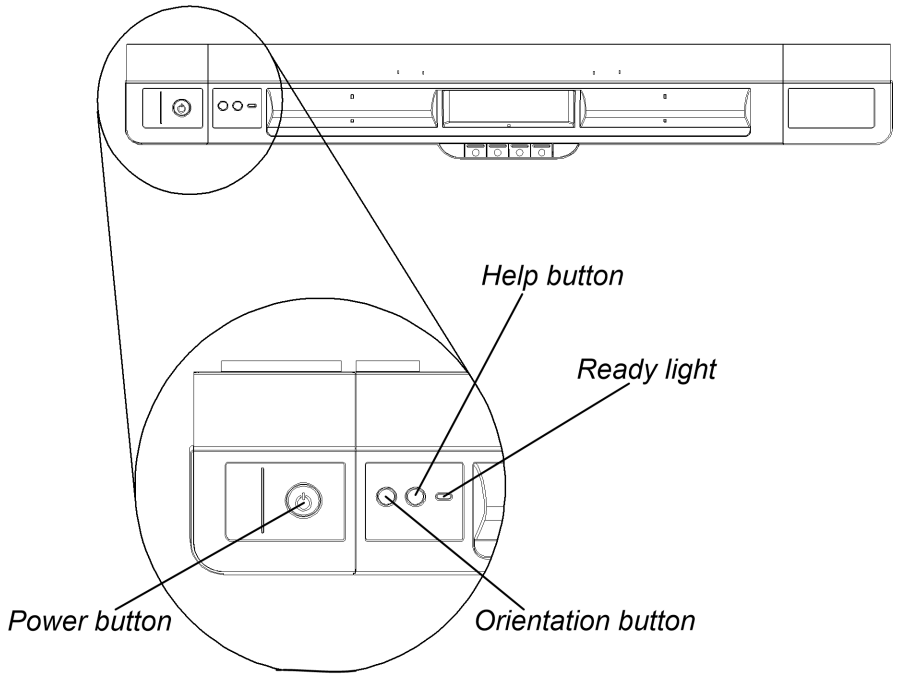
- If a basic power control module is attached to the left side of the pen tray (because the interactive whiteboard is not part of a projector system), turn on the computer, turn on the projector, and then press the **Power** button on the basic power control module to turn on the interactive whiteboard.
- If an Extended Control Panel (ECP) is attached to the left side of the pen tray (because the interactive whiteboard is part of a projector system), turn on the computer and then press the **Power** button on the ECP to turn on the projector and the interactive whiteboard.
- If an Appliance Control Panel (ACP) is attached to the left side of the pen tray (because the interactive whiteboard is part of a projector system with an appliance), turn on the computer and then press the **Power** button on the ECP to turn on the projector, the interactive whiteboard, and the appliance.

Each time you turn on the interactive whiteboard, the pen color buttons cycle twice, and then the light comes on only for the ink color you select.

When your computer is on and the Power button is off, the interactive whiteboard is in Standby mode. Press the **Power** button to wake up the interactive whiteboard. When you finish, press the **Power** button again to return it to Standby mode.

Power buttons and indicators

The left side of the pen tray has Power, Orientation and Help buttons, as well as the Ready light.



Note

The above diagram shows the basic power module:

- For information on the additional features of the Extended Control Panel (ECP), see *Using the Extended Control Panel (ECP)* on the next page.
- For information on the additional features of the Application Control Panel (ACP), see *Using the Application Control Module (ACM)* on page 30

Component	Description
Power button	Press this button to put your interactive whiteboard into Standby mode when it isn't in use, or to restore full power to it when you need to use it. Ensure that the interactive whiteboard is connected to your computer and to a wall power outlet.
Orientation button	Press this button to start the orientation process. Orienting your interactive whiteboard ensures that the mouse pointer or digital ink appears directly below your finger or pen tray tool when you touch the interactive surface. Refer to page 23 for information on performing an orientation procedure.

Component	Description
Help button	Press this button to access on-screen Help options, including links to online Help files, troubleshooting options and contact information for SMART Support.
Ready light	This light indicates the status of the interactive whiteboard's controller module. The Ready light is solid green when the system is working properly.

The following table shows the Ready light's normal states.

Ready light state	Description
Solid red	Your interactive whiteboard is receiving power from the power cable, but isn't communicating with a computer.
Flashing green	Your interactive whiteboard is receiving power and is communicating successfully with your computer's USB HID driver. SMART Product Drivers isn't installed. **Note** In HID mode, interactive whiteboard tools such as the pens and the eraser don't work, but you can move the mouse pointer and perform mouse functions by touching the interactive surface. The Right-click button on the pen tray might work, depending on the version of operating system you're using. Neither the Keyboard nor the Help button work in HID mode.
Solid green	Your interactive whiteboard is receiving power and is communicating successfully with SMART Product Drivers.
Flashing amber	The controller module is in a service mode or the firmware is being updated.

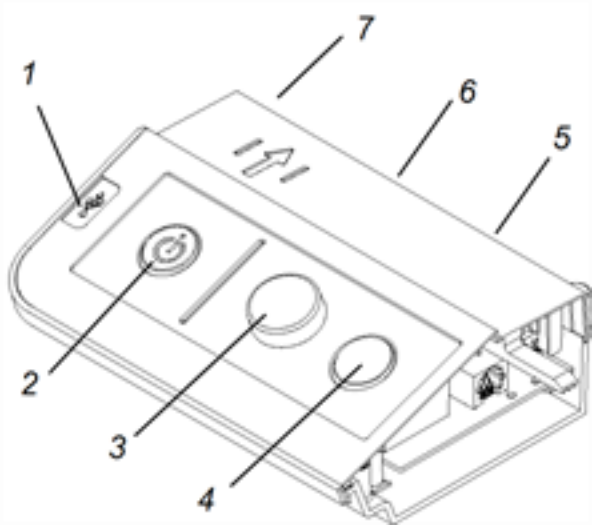
Using the Extended Control Panel (ECP)

If your interactive whiteboard is bundled with a SMART or Epson for SMART projector as part of a projector system, the Extended Control Panel (ECP) attaches to the left side of the interactive whiteboard pen tray. The ECP gives you control of the interactive whiteboard's basic operations. Press the **Power** button on the ECP to put the projector into Standby mode or to turn it on. Press the ECP's **Input** button to switch sources on the projector.

Important

Do not disconnect cables from the ECP to connect peripheral devices because you could disconnect controls for the interactive whiteboard.

The following diagram and table describe the components of the ECP.



Number	Function
Left side	
1	USB A receptacle (for USB drives) **Note** USB drives that you connect to this receptacle are accessible only to the room computer (the computer connected to the USB1 receptacle).
Front	
2	Interactive whiteboard and projector Power ⏻ button and status indicator light
3	Projector volume control
4	Projector input selection
Back	
5	Two mini USB B receptacles (connect to room computer and laptop)
6	11-pin connector (connects to projector integration cable harness)
7	4-pin connector (for optional room control)

Note

Use an 800 series control cable (Part No. SBX8-CTRL) to convert the 4-pin connector to a DB9F RS-232 connector for use with a third-party room control system. You can purchase an SBX8 series control cable from your local SMART reseller.

Using the Application Control Module (ACM)

If your interactive whiteboard is bundled with a SMART projector and appliance as part of a projector system, the Application Control Panel (ACP) attaches to the left side of the interactive whiteboard pen tray. The ACP gives you control of the basic operations of your interactive whiteboard system. Press the **Power** ⏻ button on the ACP to start the interactive whiteboard system. The button flashes green until the interactive whiteboard system is on. Use the LCD touch screen on the ACP to turn the interactive whiteboard system off and on, control volume, switch inputs and applications, control projector and LCD settings, and access system and status information. You can also set your system to low power mode by selecting **Turn Off** on the LCD touch screen.

Important

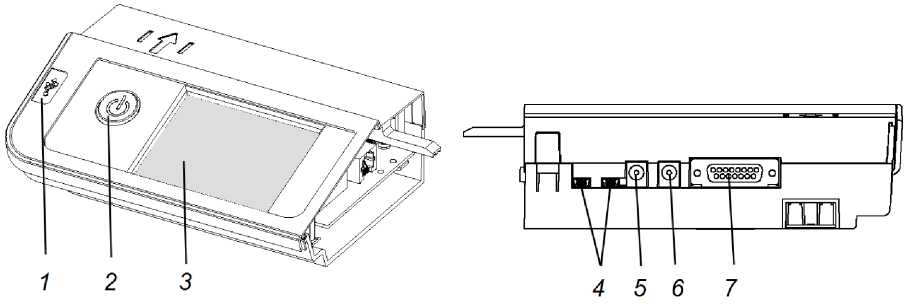
Do not disconnect cables from the ACP to connect peripheral devices because you could disconnect controls for the interactive whiteboard.

Note

Low power mode reduces the power consumption of your interactive whiteboard system when it's in Shutdown mode.

To set the projector system to Low power mode, access the low power mode options through the LCD touch screen's system settings.

The following diagrams and table describe the components of the ACP.



Number	Function
1	USB A receptacle (for USB drives)
2	Power ⏻ button (for appliance only)
3	LCD touch screen
4	Mini USB B receptacles (x2) (connect to appliance and laptop)
5	2.0 mm male barrel connector to appliance (DC-out)

Number	Function
6	2.5 mm male barrel connector to power supply (DC-in)
7	15-pin connector (connects to ACP harness cable)

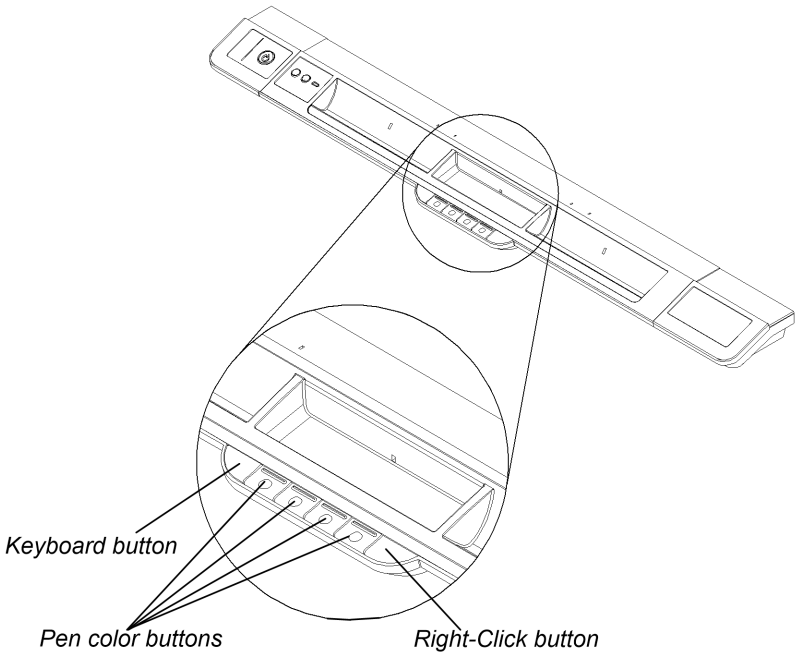
Using the pen tray

In addition to providing a convenient place to hold the pens and the eraser, the pen tray on the SMART Board 800 series interactive whiteboard has several controls, sensors and indicators.

Pen tray buttons

In the center of the pen tray, there are six buttons. The middle four change the color of digital ink for the two pen tools. The buttons on either side of the pen color buttons default to the on-screen keyboard (left button) and right-click (right button) functions.

You can customize the pen, eraser and button settings. For example, you can change line transparency, color and style; you can change the width of the eraser; and you can change the Keyboard and Right-Click button settings so that they perform another action.



> **Note**
>
> Pressing the **Keyboard** and **Right-Click** buttons simultaneously starts the orientation.

Customizing the pen tray buttons

You can use the SMART control panel to customize the SMART hardware settings, including the pen, eraser and button settings.

To customize the button settings

1. Press the SMART Board icon in the Windows notification area or Mac Dock, and then select **SMART Settings**.

   SMART Settings opens.

2. Press **SMART Hardware Settings** and select the SMART Board interactive whiteboard.
3. Press **Pen and Button Settings** from the drop-down list, and then select the button you want to customize.
4. Follow the on-screen instructions.

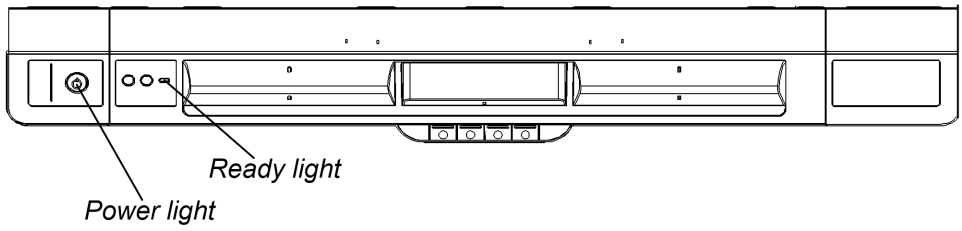
For more information about customizing the settings, open the online Help by pressing the **Help** button on the pen tray, selecting **Help Center**, and then selecting **SMART Hardware Settings**.

Using the Ready light

The Ready light is on the pen tray's left side beside the Help button. It indicates the status of the controller module.

> **Note**
>
> The following illustration shows the pen tray for the SB880 and SB885 model interactive whiteboards. The SB880E and SB885E models feature an Extended Control Panel in place of the power module.
>
> See › *Using the Extended Control Panel (ECP)* on page 28

The Ready light is solid green when the system is working properly.



The following table shows the Ready light's normal states.

If the Ready light is...	The interactive whiteboard...	Actions
Off	Isn't receiving power or is in Standby mode.	• Press the **Power** button on the pen tray to bring the interactive whiteboard out of Standby mode. • Ensure that the interactive whiteboard is connected to a wall outlet.
Solid green	Is receiving power and is communicating successfully with SMART Product Drivers	N/A
Solid red	Is receiving power from the power cable but isn't communicating successfully with the computer.	• Ensure that the power cable is connected properly to the interactive whiteboard. • Ensure that the interactive whiteboard is connected properly to the computer using a USB cable. • Ensure that the computer is on.
Flashing green	• Is in HID mode. It's receiving power and is communicating successfully with the computer's USB HID driver. • SMART Product Drivers isn't installed.	This is normal mouse mode and you might not want to use tools such as the pens and the eraser. You can move the mouse pointer and perform mouse functions by touching the interactive surface. The Right-Click button on the pen tray might work, depending on the operating system you're using. Neither the Keyboard nor the Help button work in HID mode. • To use the tools, install SMART Product Drivers. • To use all the features of the interactive whiteboard, install SMART software (smarttech.com/software).
Flashing amber	Is in a Service mode or its firmware is being updated.	Wait until the download finishes. After the download is complete, the Ready light turns solid green.

Using SMART Ink

If SMART Ink is installed on the connected computer, the dynamic (floating) toolbar for SMART Ink appears on the screen. You can use this toolbar to change the pen's color, thickness or other properties temporarily, or use some of SMART Ink's tools such as screen capture, spotlight, screen shade, and so on.

To learn more about using SMART Ink and its toolbar, visit the SMART Ink support page. Here are a few quick links to get you started:

- Turning SMART Ink on or off
- Open the toolbar
- Close the toolbar (keep SMART Ink on, but hide the floating toolbar)
- Using presentation tools, such as Spotlight, Magnifier, and Screen Shade

Writing, selecting, and erasing using object awareness

The SMART Board 800 series interactive whiteboard features object awareness, which means you can pick up a pen and write, select or erase without replacing the pen. SMART software interprets your intent when you press the interactive surface, based on both the type of tool you're using and the size of the contact area.

- If you touch the interactive surface with the pen, SMART software identifies its reflective surface, and you write or draw in digital ink on the screen.
- If you touch the interactive surface with your finger, you perform a left click.
- If you touch the interactive surface with an eraser, your palm or the side of your hand, SMART software identifies a large contact area, and you erase digital ink from the screen.

> **Important**
>
> To prevent the interactive whiteboard from interpreting a pen as finger, do not cover the Pen ID feature above the pen's nib.

Using Lockable Pen mode

If you want every touch on the interactive whiteboard surface to register as a specific tool—such as a pen, eraser, or Select tool—activate that tool and then, hold down a pen color button on the pen tray until its light flashes (about three seconds). The interactive whiteboard locks into that mode.

Example

If you want every touch to create red ink, press the red pen tray button until the red light flashes (about three seconds). Then every time you touch the board with your fingers, a pen or an eraser, you create red ink.

Note

The selected pen tray light blinks to indicate you're in Lockable Pen mode. To unlock the pen, press any pen tray color button.

Using gestures

Touch gestures enable you to use pre-determined commands without using the keyboard or mouse. With a series of touches on the interactive whiteboard screen, you can navigate pages, change the look of an object, erase digital ink and more.

Before you use gestures, you must enable the interactive whiteboard to recognize them. If you don't enable gestures, only single-finger gestures are enabled.

Notes

- Gestures are enabled by default on Windows 7 or later operating systems and OS X 10.6 or later operating system software.
- If gestures aren't working as expected on your Windows computer, try the following (consult the documentation for your computer's operating system for details about completing these actions):
  - In the Windows Control Panel, select **Pen and Touch** and disable the Windows Flick and Single-Finger Pan gestures to improve the performance of other gestures. For more information, see the Microsoft website.
  - From the Windows Control Panel, select **Administrative Tools > Services** and ensure that the Tablet PC Input Service is running and starts automatically.
  - In the Windows Device manager, select **Human Interface Devices**. If SMART Virtual Tablet PC driver (one of the SMART Product Drivers) isn't visible, remove SMART Product Drivers and then install them again.
- Depending on the operating system and the specific application you're using, some gestures might not work or could perform differently than described (see docs.smarttech.com/kb/144789).

Single-finger gestures

When you install SMART software, you can perform some gestures using one finger, including selecting objects and double-clicking.

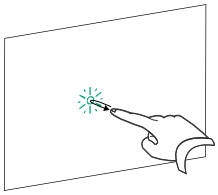
You can also enable "flicks" on Windows 7 later or operating systems. To perform a flick, press the screen, and then drag quickly in one direction before releasing your finger. Flicks perform different actions depending on the direction of the flick, and you can customize flicks to perform different functions.

For more information about flicks, see the Microsoft website.

Single-finger gestures include the following:

Selecting and deselecting an object (clicking)

Quickly press and release the interactive surface to select or deselect an object or option. This performs a standard mouse click.



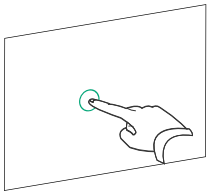
> **Note**
>
> This gesture starts programs if the operating system is set to start applications with a single click.

Displaying menu options (right-clicking or control-clicking)

Press and hold the screen with your finger.

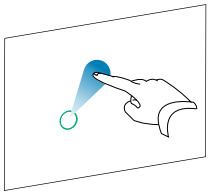
In SMART Notebook software, SMART Meeting Pro software, Windows and Microsoft Office programs, the right-click menu appears.

In Mac operating system software, menu options appear.



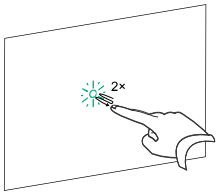
Dragging an object, scroll bar or window

Press and hold an object or scroll bar on the screen. Keep your finger on the screen and slowly move the object or scroll bar. When you reach the position you want, release your finger.



Double-clicking

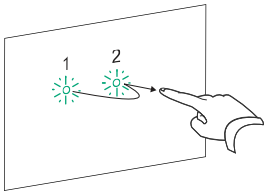
Quickly press and release the interactive surface twice in the same spot. This performs a standard double-click.



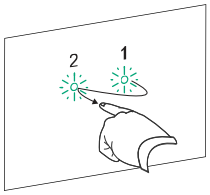
> **Note**
>
> This gesture starts programs if the operating system is set to start applications on a double click.

Displaying the next and previous page

To display the next page, press the screen and then quickly press again directly to the right of that point.



To display the previous page, press the screen and then quickly press again directly to the left of that point.



Multi-finger gestures

You can perform some gestures using two or more fingers, including scaling, scrolling and manipulating objects. Multi-finger gestures include the following:

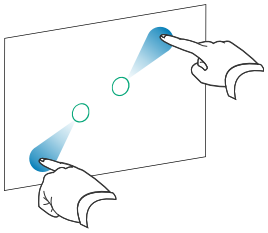
Displaying menu options (right-clicking or control-clicking)

Using two fingers on the same hand, press and hold the screen with one finger and then to press the screen directly to the right of that point with a second finger.

Lift the first finger from the screen, and then select a menu item with any finger.

Enlarging an area or object

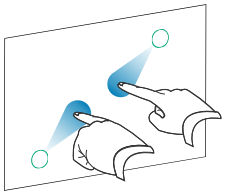
Use one finger on each hand to press in the center of the area or object, and then drag your fingers away from each other.



Reducing the scale of an object

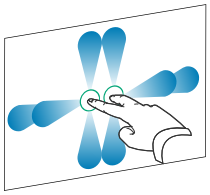
Use one finger on each hand to press the screen at opposite ends of the area or object, and then drag your fingers toward each other.

This gesture either scales a single object or the entire page, depending on the application.



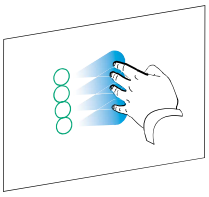
Scrolling horizontally or vertically

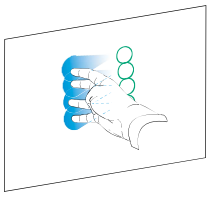
Using two fingers on the same hand, press and hold the screen. Keeping your fingers on the screen, move up, down, left or right on the page. Release your fingers when you're satisfied with the view.



Swiping to a different page

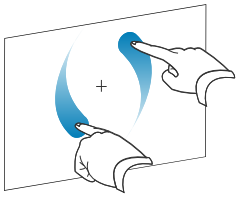
Press the screen with all four fingers on your hand, swipe your fingers to the right to display the previous page or to the left to display the next page, and then release your fingers.





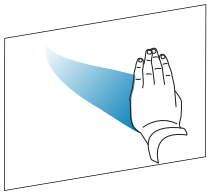
Rotating an object

Place one finger on either side of the object you want to rotate. Keep one finger stationary, and quickly move your second finger around the object. Release your fingers from the screen when you're satisfied with the angle.

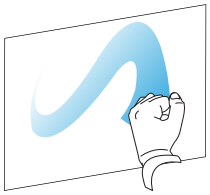


Erasing digital ink

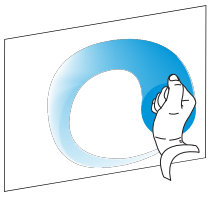
Using your flattened hand, palm, or fist, press the interactive surface and move your hand across the area you want to erase.



Use a scrubbing motion to erase entire areas of digital ink.



To erase a large area of ink, move your hand in a circle around the area you want to erase, and then swipe your hand across the middle of the circle.



Multitouch gestures

Two people can work together to draw, erase or interact with content anywhere on the interactive surface at the same time.

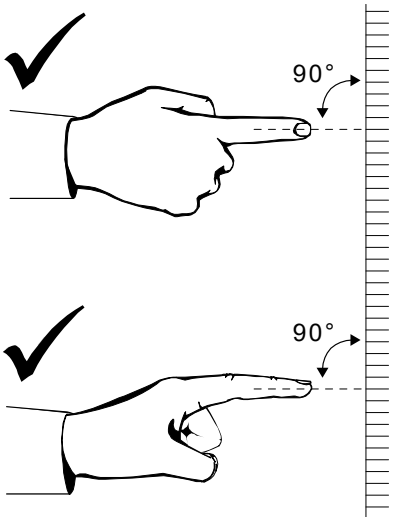
You can use multitouch hand and finger gestures to toss, rotate or zoom in or out on objects and interact within SMART software.

> **Note**
>
> Depending on the operating system and application you're using, some gestures may not work or may perform differently than described. Windows 7 operating system and OS X 10.6 operating system software are multitouch operating systems.

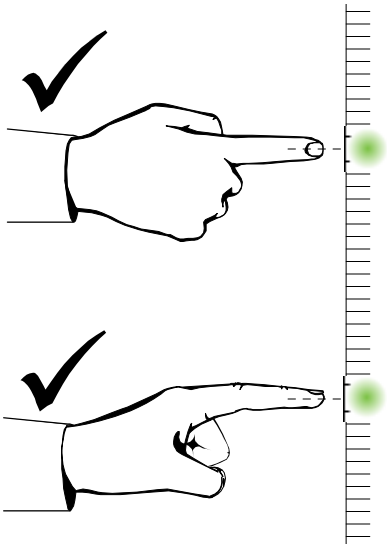
Best practices for gestures and tools

Follow these guidelines when you use gestures and tools with the interactive product.

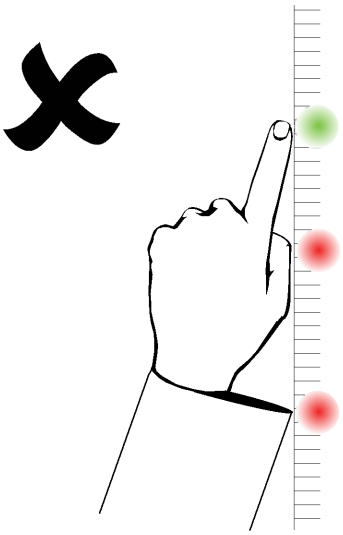
Hold your fingers perpendicular (90°) to the interactive surface at the contact point.



Keep your thumb and other fingers away from the interactive surface. They can generate unintentional commands.

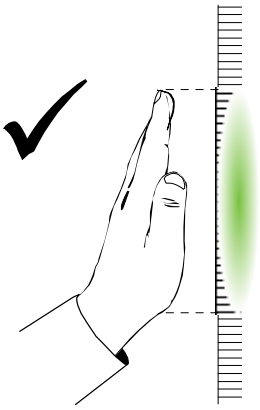


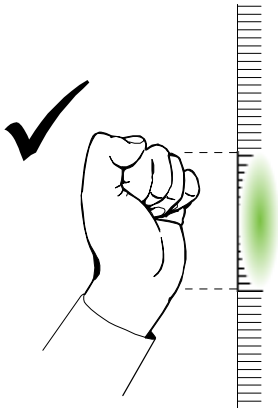
Keep your other hand, elbows and loose clothing away from the interactive surface. They can generate unintentional commands.



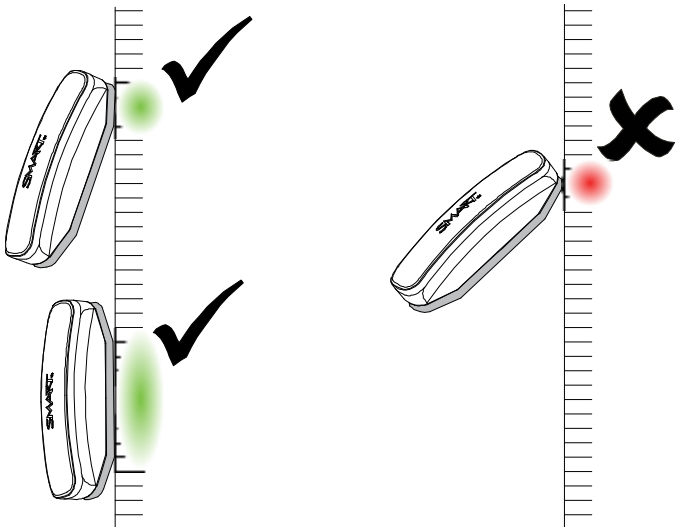
For "click" commands, quickly tap your finger on the interactive surface. Also, make sure you lift your finger far enough away from the interactive surface between presses so that your finger is out of the interactive whiteboard cameras' view.

For "erase" commands, use your palm or the bottom of your fist.





When using the pen tray's eraser, use the wide surface for large areas and the smaller, angled surface for smaller areas. Don't use the edge of the eraser because this could be interpreted incorrectly.



Chapter 6 **Maintaining your interactive whiteboard**

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- Safety tips for teachers 44
- Preventing damage to the interactive whiteboard 44
- Keeping the writing surface clean 44
- Cleaning the pen tray 45

Updating SMART software 45
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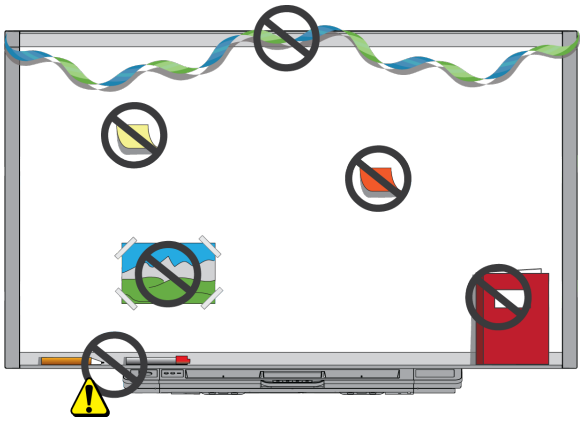
Removing the pen tray 46

Tips for trouble-free performance

- Connect the interactive whiteboard to a USB interface that's recognized by the operating system.
- Don't obstruct the cameras' view of the interactive whiteboard's surface or edges. For example, don't place magnets, stickers or adhesive tape on the interactive surface or rest any objects, including the pens, in the recess at the bottom of the interactive surface. This interferes with the corner cameras' ability to detect your finger or pen tray tools.



Safety tips for teachers

- Tell students not to look directly at the light beam from the projector. Instead, encourage them to keep their backs to the projector when working at the interactive whiteboard. Before students turn to face the class, they should take a step sideways, out of the projector's beam.
- Make sure that you don't look directly into the projector's beam. Keep your back to the class when you write over a projected image. Step to the side of the interactive whiteboard before you turn to face the class.
- Tell students not to touch the projector because it can become extremely hot during normal operation.
- Don't use a chair to increase a student's reach. If your students can't reach the top of the interactive whiteboard, you might need to remount a wall-mounted unit at a lower position.

Preventing damage to the interactive whiteboard

Although the SMART Board interactive whiteboard's surface is very durable, take the following precautions to prevent damage to the interactive surface and other components.

- Don't set up and use the interactive whiteboard in an area with high levels of dust, humidity or smoke.
- Don't use sharp or pointed objects, such as ballpoint pens or pointers, as writing tools.
- Replace the pen nib when the nib wears out.
- Don't use low-odor dry-erase markers because they can be very difficult to erase. Use standard (high-odor) dry-erase markers that show a warning to use them only in well-ventilated areas.
- Don't use adhesive tape on the interactive surface.
- Don't use abrasive erasers or harsh chemicals to clean your product.
- Don't use compressed air to clean the interactive whiteboard's cameras. The force of the air could damage them.

Keeping the writing surface clean

With proper care, the SMART Board interactive whiteboard will provide years of trouble-free service. Follow these tips to keep the interactive whiteboard's surface clean:

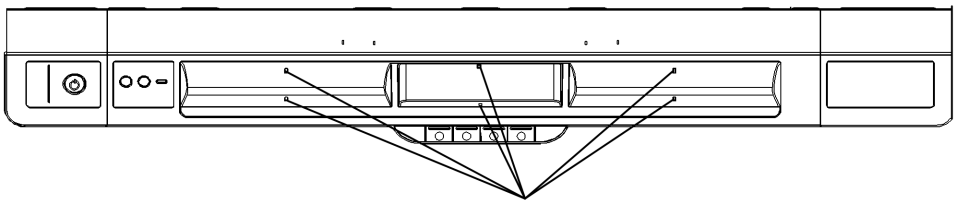
- Don't spray cleaner directly onto the interactive whiteboard's surface. Instead, spray a light amount of cleaner on a cloth and then gently wipe the interactive surface.
- Clean your interactive whiteboard at least every six months.
- Don't allow excess cleaner to flow onto the frame's reflective surfaces or into the pen tray slots.

- The digital cameras located in the corners of the frame are protected from dust and dirt by windows. In extremely dusty environments, spray an alcohol-free household glass cleaner, such as Windex® cleaner, on a cotton swab and rub it gently on the windows. Don't use compressed air to clean the cameras.

  > **Important**
  >
  > - Turn the interactive whiteboard off before you clean it so that you do not scramble the desktop icons or inadvertently activate applications when you wipe the interactive surface.
  > - To view dirt or streaks more easily, set the projector to standby (lamp off) mode.

Cleaning the pen tray

If the infrared sensors in the sides of the pen tools' slots become obstructed by dirt, moisten a cotton swab with an alcohol-free household glass cleaner, such as Windex, and then carefully clean the infrared transmitter and receiver.



Infrared sensors

Updating SMART software

To update SMART software, go to the SMART software download page or use SMART Product Update (SPU).

To check for software updates

1. Click the SMART software icon in the Windows notification area or the Mac Dock, and then select **Check for Updates and Activation**.

   The *SMART Product Update* dialog box appears listing the SMART software products installed on your computer.

   > **Note**
   >
   > If you don't see the *Check for Updates and Activation* option, contact the network administrator.

2. Click the **Update** button beside the software you want to update.

   The SMART software updates automatically.

Transporting the interactive whiteboard

Save the original SMART Board 800 series interactive whiteboard packaging so that it's available if you need to transport the interactive whiteboard. When required, repack it with as much of the original packaging as possible. This packaging was designed to provide the best possible protection against shock and vibration. If the original packaging is no longer available, you can purchase the same packaging directly from your authorized SMART reseller (smarttech.com/where).

If you prefer to use your own packaging materials, make sure you adequately protect the interactive whiteboard. Ship the interactive whiteboard in an upright position to deter shippers from placing heavy objects on it.

Removing the pen tray

It might be necessary to remove the pen tray when you transport or service the interactive whiteboard.

⚠ Caution

There are no user-serviceable parts inside the pen tray. Do not disassemble the pen tray. If dust or small items become wedged in the spaces around the buttons and prevent them from being pressed or causing constant button contact, remove the obstruction carefully.

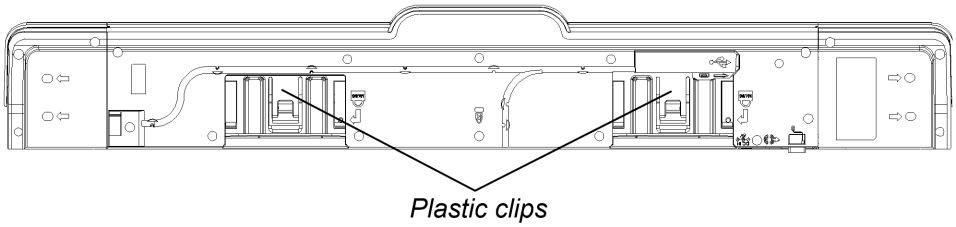
Note

Electrostatic discharge (ESD) protection isn't required when performing the following procedure.

To remove the pen tray

1. Turn off the interactive whiteboard and disconnect the cables from the pen tray by disconnecting the power cable from the wall outlet and the USB cable from the computer.
2. Remove the pens and the eraser from the pen tray.
3. Reach under the pen tray and disconnect the USB cable.
4. If you secured the pen tray to its brackets using two security screws, remove the screws and set them aside.
5. If you secured the pen tray using a Kensington lock or similar device, unlock and remove the lock.

6. Reach under the pen tray and pull down on the two large plastic clips. Because the ends of these clips project slightly downwards, they're easy to locate.



7. While applying downward pressure to the clips, gently slide the pen tray toward you until you can access the cables attached to the back of the pen tray.
8. Carefully disconnect these cables before completely removing the pen tray from the two L-shaped metal brackets.

To reinstall the pen tray, simply reverse these steps. When you replace the pen tray on its supports, you'll hear a click when it slides into place.

Chapter 7 **Troubleshooting**

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Tips and resources for troubleshooting

You can use these tips and resources when troubleshooting the interactive whiteboard.

Adjusting the projected image

Alignment errors occur when the projected image isn't perpendicular to the screen. Alignment errors can occur when you mount the interactive whiteboard on an uneven surface or a wall that has obstructions, or if you position the projector too far from the vertical or horizontal center of the interactive whiteboard.

If the projector isn't installed in a fixed location, you can correct many image problems by shifting your projector or adjusting its alignment settings and zoom lens.

If you are using a SMART projector, refer to the interactive whiteboard system's user's guide. If you're using an Epson® projector, consult the projector's documentation.

Note

Adjust the image size and shape while projecting a full-screen image such as your projector's splash screen, unless the splash screen image is much smaller than the computer's projected image. Before you adjust the projected image, set the computer's resolution and refresh rate (see *Configuring the computer settings* on page 20).

Resetting the interactive whiteboard

If the interactive whiteboard behaves erratically or becomes unresponsive, possibly because of an electrostatic discharge, a power interruption or some other event, you might be able to restore normal operation by resetting the interactive whiteboard. This turns the power off and back on, restarting all the interactive whiteboard's components.

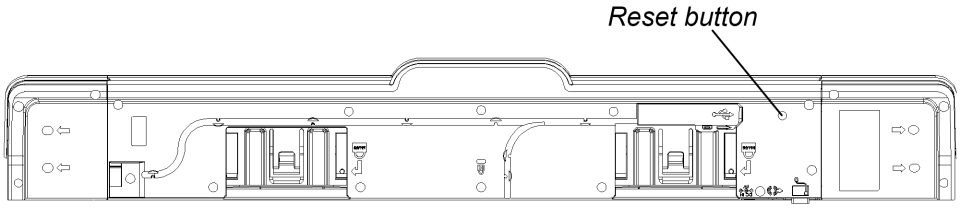
To reset the interactive whiteboard

Disconnect the power cable from the back of the pen tray and reconnect it after a few seconds.

OR

Press the **Reset** button briefly (less than three seconds) on the bottom of the pen tray.

All the pen tray indicator lights flash sequentially twice and the interactive whiteboard resets.



Important

If you accidentally press the Reset button for longer than three seconds, the interactive whiteboard goes into a service mode and the pen tray flashes amber. To get the interactive whiteboard out of the service mode, disconnect the power cable from the back of the pen tray and reconnect it afte a few seconds.

Note

The Reset button is recessed so that it can't be triggered accidentally. Use a long, narrow object, such as a ball-point pen, to press this button.

Using the connection wizard

SMART Settings includes a connection wizard for troubleshooting problems with the connection between the computer and interactive whiteboard.

For example, you may need to configure a serial port manually in the following situations:

- The computer's operating system doesn't support plug and play.
- The *Found New Hardware* wizard doesn't appear.
- You connected the interactive whiteboard to a power source after you started your computer.
- The Ready light remains red after you start SMART Board Tools.

To troubleshoot connections

1. Click the SMART Board icon in the notification area (Windows) or menu bar (Mac) and select **SMART Settings**.

   > **Note**
   >
   > If your computer isn't currently connected to an interactive whiteboard, the SMART Board icon includes an X in the lower-right corner.

2. Click **Connection Wizard**.

   The *SMART Connection Wizard* appears.

3. Follow the on-screen instructions.

Using SMART Diagnostics

If you touch the interactive whiteboard's surface and nothing happens, there is no digital ink, or the ink appears in some locations and not in others, use SMART Board Diagnostics to help identify and resolve these issues.

> **Important**
>
> Do not change diagnostic settings unless asked to do so by SMART Support.

Checking the camera views

If nothing happens when you touch the interactive whiteboard surface, ensure that nothing is obscuring any of the cameras' views.

To check camera views

1. Press the SMART software icon in the Windows notification area or Mac Dock, and then press **Control Panel**.

   The SMART control panel opens.

2. Select **About Software and Product Support > Tools > Diagnostics**.

   The *SMART Board Diagnostics* screen opens.

3. Select **View > SBX800/SBID8070i Bar**.

   The *SBX800/SBID8070i* bar appears.

4. Click **View**.

   The camera view window appears.

   > **Note**
   >
   > The bottom-left camera is *Camera 0*, the top-left camera is *Camera 1*, the top-right camera is *Camera 2* and the bottom-right camera is *Camera 3*.

5. Click **Update** to show what each of the four cameras sees. This can take several moments.

   Each bar represents a picture from a camera, and the number beside the bar tells you which camera took the corresponding picture. This image shows normal camera views.

6. If one of the cameras' views remains black, the camera is obstructed or can't locate the reflective surface on the interactive whiteboard inner frame. This image is an example of a camera view obscured by a pen or other object.

   Check the camera lens and ensure that nothing is obstructing the view and that nothing is affixed to the interactive surface.

7. Click **Save Image** and then save the file with your choice of file name and location.

   > **Tip**
   >
   > It's a good idea to save the file to the SMART Technologies folder. You can save the image with the log file for future reference or to email to a technical support representative.

Checking the interactive whiteboard's calibration

If no digital ink appears or appears only in certain areas when you write on the interactive whiteboard, the interactive whiteboard could be incorrectly calibrated. You can test the calibration using SMART Board Diagnostics Tracker utility.

To check the interactive whiteboard's calibration

1. Press the SMART software icon in the Windows notification area or Mac Dock, and then press **Control Panel**.

   The SMART control panel opens.

2. Select **About Software and Product Support > Tools > Diagnostics**.

   The *SMART Board Diagnostics* screen opens.

3. Select **View > SBX800/SBID8070i Bar**.

   The *SBX800/SBID8070i* bar appears.

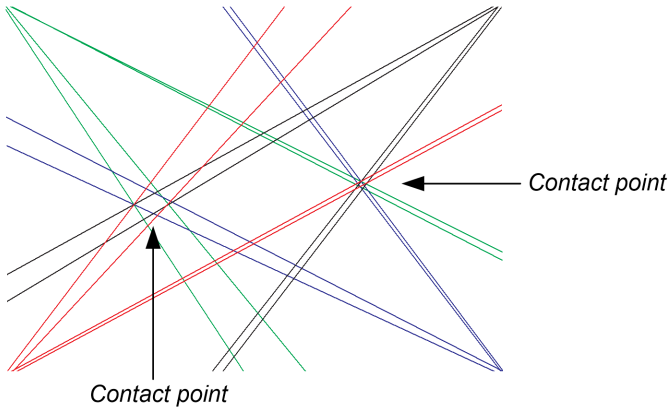
4. Click **Tracker**.

   The screen becomes white.

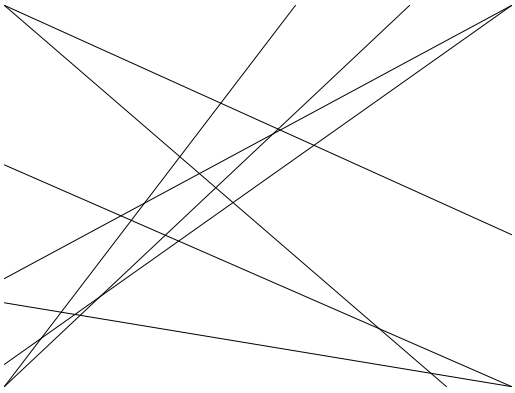
5. Touch the interactive screen with a pen, finger or eraser.

6. Verify that the tracking rays overlap.

   This image shows two contact points: a finger and an eraser.



7. If the rays don't overlap, and the rays change from colored to black, calibrate the cameras (see page 22).



Notes

- If one or more of the lines don't move or don't appear, a camera is obstructed or isn't working properly.
- If intermittent black lines appear, a second object, such as your sleeve, is touching the screen while you write.

Troubleshooting the interactive whiteboard and related SMART products

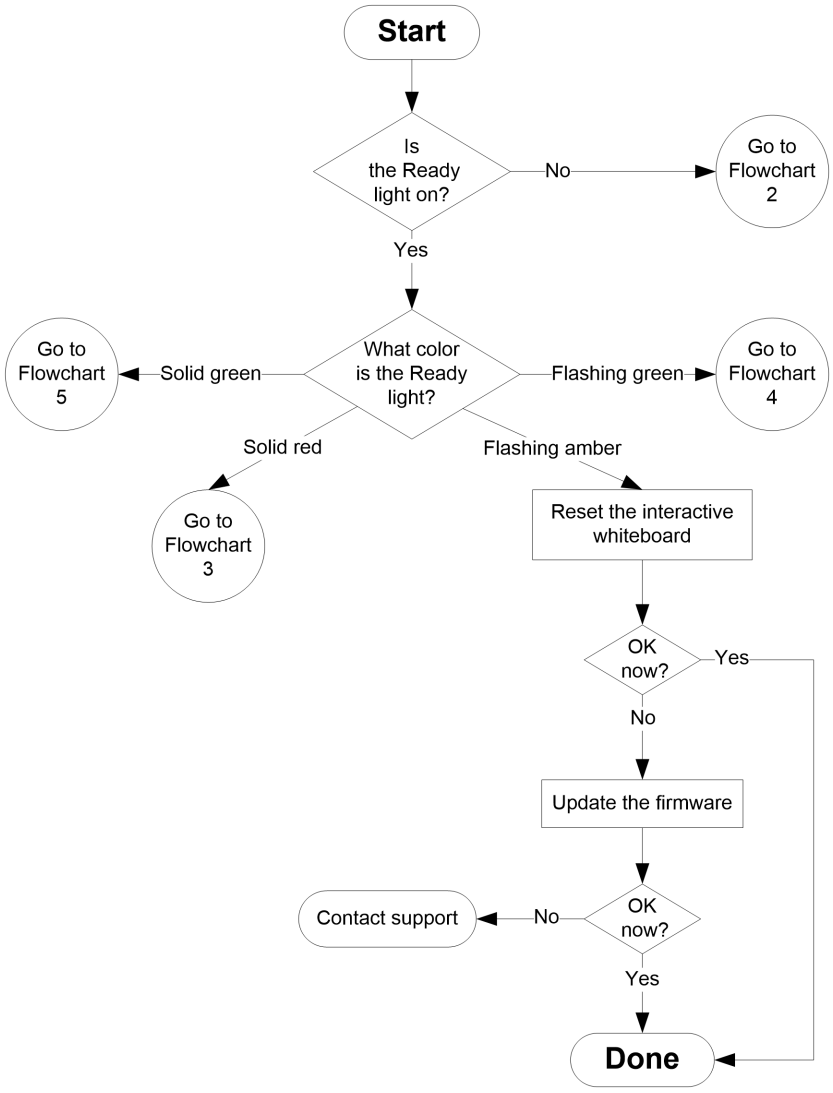
The Support section of the SMART website includes information about resolving a variety of common problems with the interactive whiteboard and related SMART products.

See › support.smarttech.com/docs/sb800troubleshooting

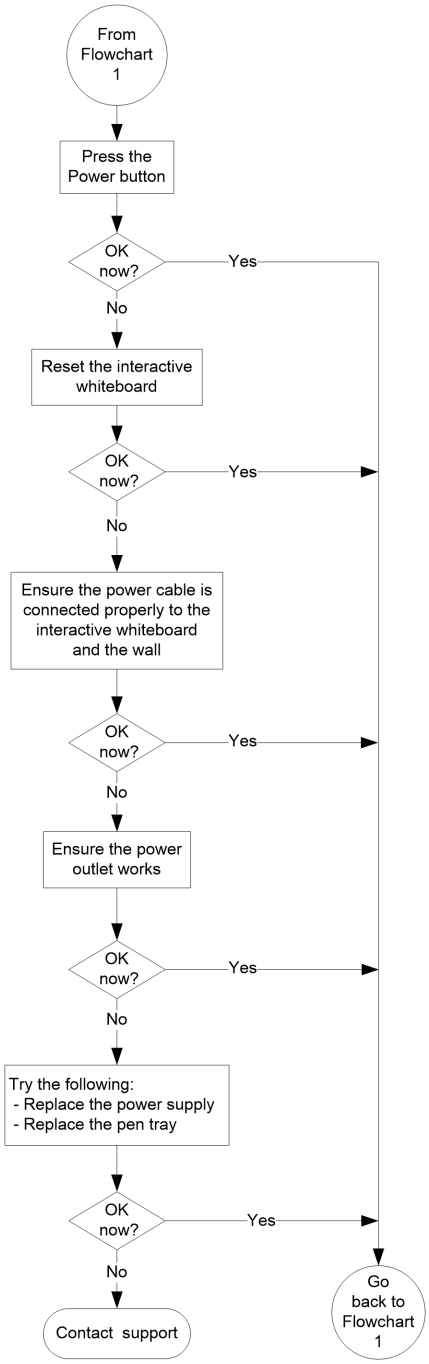
Troubleshooting using the Ready light

You can troubleshoot the interactive whiteboard using the Ready light, together with other observable symptoms and behaviors. Before you start troubleshooting, see *Using the Ready light* on page 32 to locate the Ready light, and then familiarize yourself with its states during normal operation. The following flowchart directs you to the next stage in the troubleshooting process.

Flowchart 1: Getting started



Flowchart 2: The Ready light is off

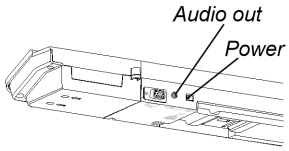


When the Ready light is off, the interactive whiteboard isn't receiving power.

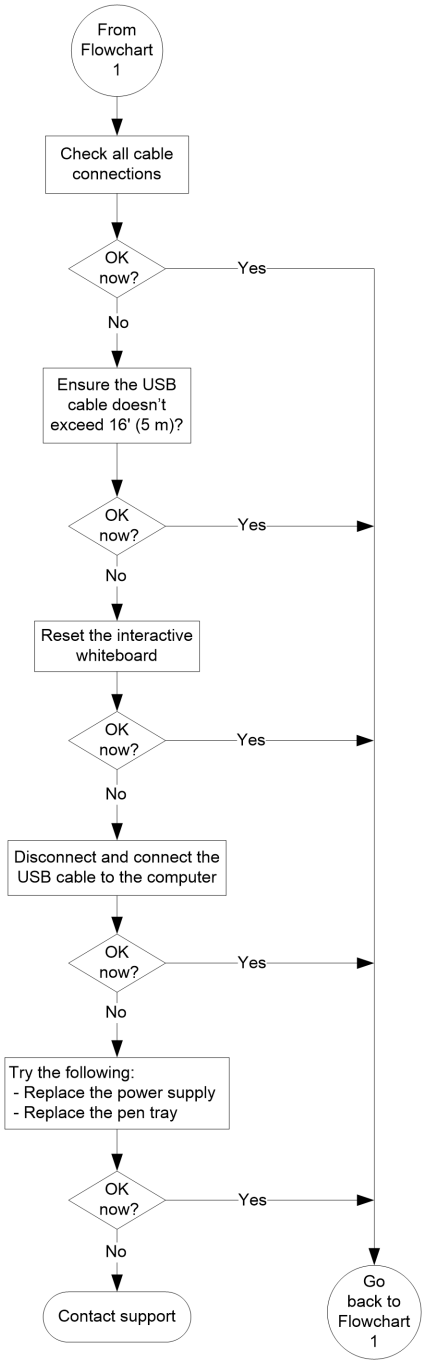
Press the **Reset** button on the bottom of the pen tray to reset the interactive whiteboard. Alternatively, disconnect the power cable at the wall outlet and connect it again.

When you reset the interactive whiteboard, all the pen tray lights flash sequentially twice, indicating successful communication with the SC14 controller. If they flash continuously, reset the interactive whiteboard again. If this doesn't solve the issue, you might need to replace the pen tray.

Check that the power cable is connected to the correct receptacle. The audio and power receptacles are located beside each other on the back of the pen tray.



Flowchart 3: The Ready light is solid red



A red Ready light indicates that the interactive whiteboard is receiving power but isn't communicating successfully with the computer. In most cases, pen tray lights don't turn on and the screen doesn't respond to touch.

The interactive whiteboard is connected to the computer with a USB cable, and to the wall outlet with a power cable. You can access these cables by reaching underneath the pen tray.

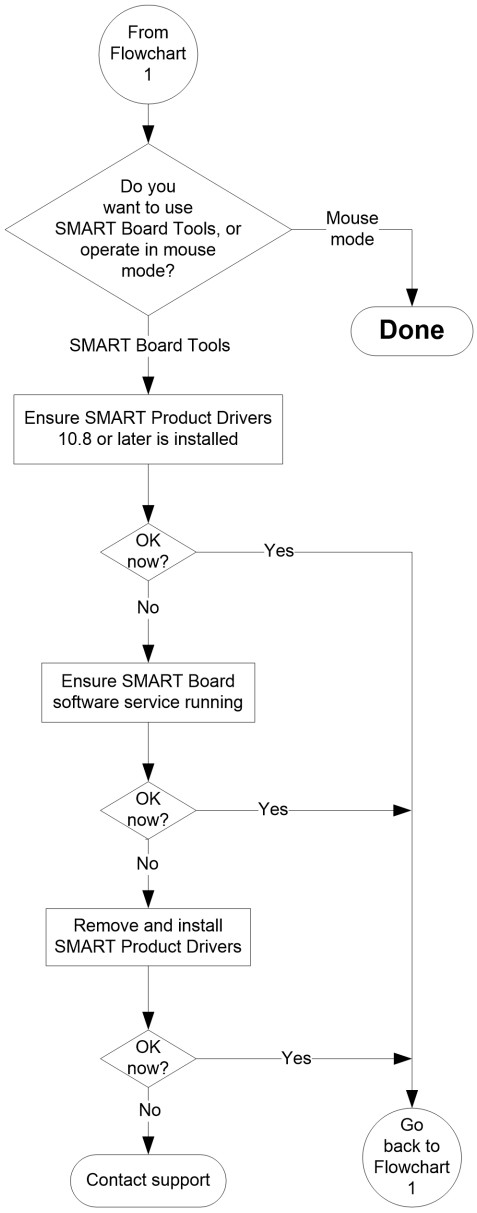
The USB cable must not exceed 16' (5 m).

Press the **Reset** button on the bottom of the pen tray to reset the interactive whiteboard. Alternatively, disconnect the power cable at the wall outlet, and connect it again.

Flowchart 4: The Ready light is flashing green

This is the normal mouse mode state when SMART Product Drivers isn't installed on the computer. This mode can be useful for occasional or guest users who don't require the use of SMART Board Tools or pen tray functions.

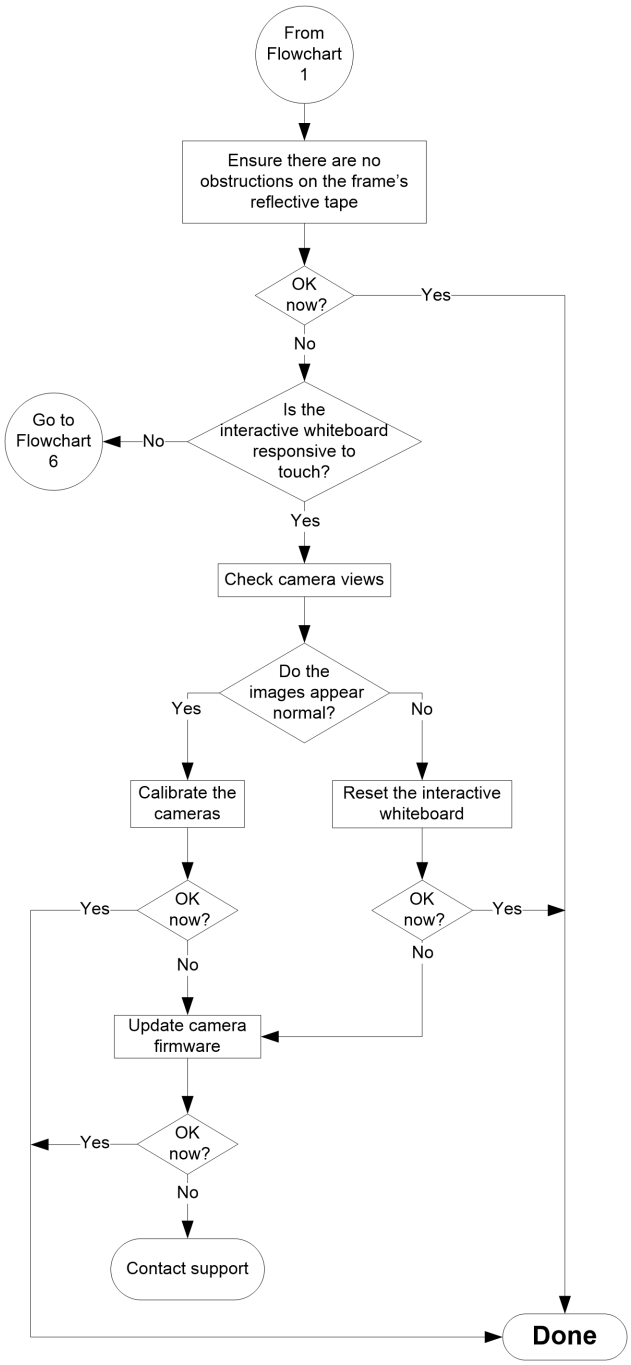
Before you can use SMART Board Tools or the pen tray pens and eraser, SMART Product Drivers must be installed and running. If the SMART software icon doesn't appear in the Windows notification area or Mac Dock, you must start SMART Product Drivers.



To use all the features of the SMART Board 800 series interactive whiteboard, go to smarttech.com/downloads to download SMART software and install it on your computer.

To determine whether the SMART Board software service is running, open the SMART control panel and check the message that appears at the bottom. Start SMART Board software service.

Flowchart 5: The Ready light is solid green but pen tray tools behave unexpectedly



A solid green Ready light indicates that the interactive whiteboard is working properly. However, if the pen tray tools don't work as expected, use this flowchart to troubleshoot the interactive whiteboard.

If another user has reassigned the pen, eraser or button functions, the tools might not work as expected. You can return them to normal operation using the SMART control panel to change SMART hardware settings.

Use camera views to examine the images reflected to the cameras from the inner edge of the frame and to determine which cameras are faulty.

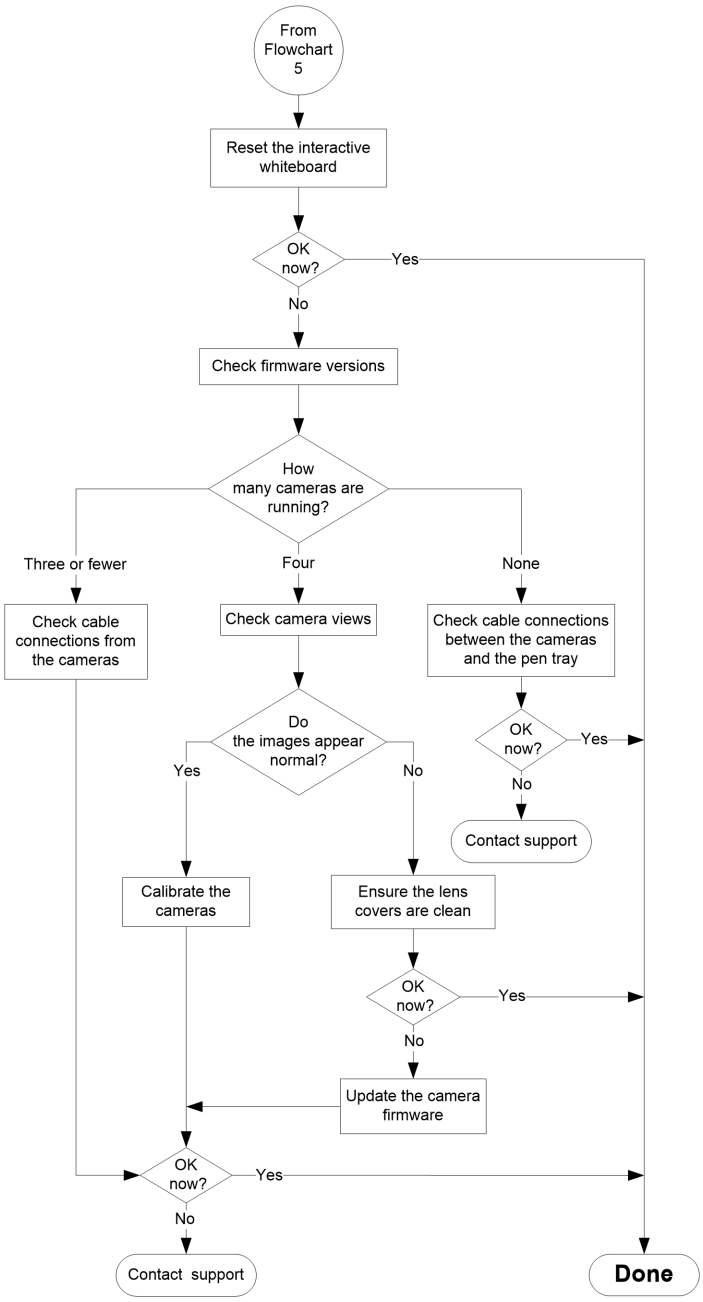
See › *Checking the camera views* on page 50

Press the **Reset** button on the bottom of the pen tray to reset the interactive whiteboard. Alternatively, disconnect the power cable at the wall outlet and connect it again.

Calibrate the cameras to ensure that they accurately track your fingers and the pens.

To update the firmware, run the SMART Firmware Update application.

Flowchart 6: The Ready light is solid green but the interactive whiteboard isn't responsive



Press the **Reset** button on the bottom of the pen tray to reset the interactive whiteboard. Alternatively, disconnect the power cable at the wall outlet, and connect it again.

To check firmware versions, go to SMART Board Diagnostics and then select **View > SBX800/SBID8070i Bar > Version > Update**. A table appears listing the firmware version currently running in each camera. If a camera isn't operating, you'll see zeros.

Use camera views to examine the images reflected to the cameras from the inner edge of the frame and to determine which cameras are faulty.

See › *Checking the camera views* on page 50

Calibrate the cameras to ensure that they accurately track your fingers and the pens.

See › *Calibrating the interactive whiteboard* on page 22

To update the firmware, run the SMART Firmware Update application.

Getting support and finding the serial number

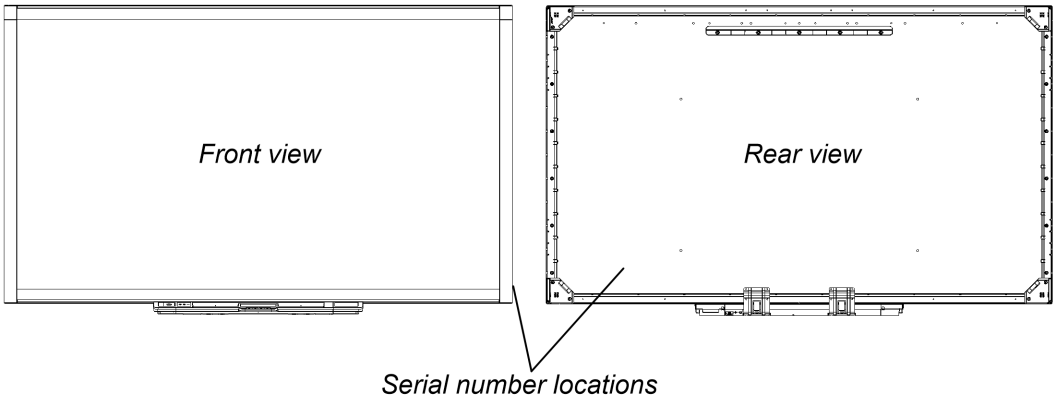
SMART Support welcomes your call. However, if you experience difficulty with the SMART Board interactive whiteboard, you might want to contact your local reseller first. Your reseller can often resolve the issue without delay.

You can find a list of parts and service parts diagrams for the interactive whiteboard or interactive whiteboard system on the SMART support website (smarttech.com/support). To order parts, contact your local reseller (smarttech.com/where).

Before contacting SMART Support, make note of the SMART Board interactive whiteboard's serial number. If you printed this manual, you can make note of the serial number in the inside cover of this manual.

To determine the interactive whiteboard's serial number

You can find the serial number in two places: on the back of the SMART Board interactive whiteboard, and on the bottom right-hand edge of the interactive whiteboard's frame (the side).



The serial number on the SMART Board interactive whiteboard always begins with the letters SBX, followed by the interactive whiteboard's model number, for example, SBX880-xx-xxxxxx. The serial number can include numbers, letters and hyphens.

> **Note**
>
> Make sure you include all the numbers, letters and hyphens in the serial number when contacting technical support.

Certification and compliance

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 and Battery regulations (WEEE and Battery Directives)

Electrical and electronic equipment and batteries contain substances that can be harmful to the environment and to human health. The crossed-out wheeled bin symbol indicates that products should be disposed of in the appropriate recycling stream and not as regular waste.

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