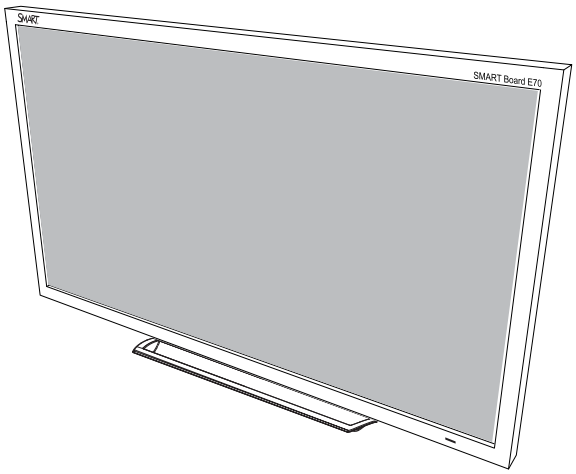

SMART Board® E70

Interactive flat panel

User's guide

SMART®

Product registration

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

Register online at smarttech.com/registration.

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

Serial number: _____

Date of purchase: _____

FCC warning

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

Trademark notice

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This product and/or use thereof covered by one or more of the following U.S. patents.

www.smarttech.com/patents

08/2013

Important information

WARNING

- Failure to follow the installation instructions shipped with your SMART product could result in personal injury and product damage which may not be covered by your warranty.
- Do not open or disassemble the SMART product. You risk electrical shock from the high voltage inside the casing. Opening the casing also voids your warranty.
- Do not stand (or allow children to stand) on a chair to touch the surface of your SMART product. Rather, mount the product at the appropriate height.
- To reduce the risk of fire or electric shock, do not expose your SMART product to rain or moisture.
- If your SMART product requires replacement parts, make sure the service technician uses replacement parts specified by SMART Technologies or parts with the same characteristics as the original.
- Ensure that any cables extending across the floor to your SMART product are properly bundled and marked to avoid a trip hazard.
- Use only extension cords and outlets into which this product's polarized plug can be fully inserted.
- Use the power cable provided with this product. If a power cable is not supplied with this product, please contact your supplier. Use only power cables that match the AC voltage of the power outlet and that comply with your country's safety standards.
- If the glass is broken, do not touch the liquid crystal. To prevent injury, handle glass fragments with care when disposing of them.
- Use only VESA®-approved mounting hardware.
- Do not insert objects inside the cabinet ventilation holes, because they could touch dangerous voltage points and cause electric shock, fire or product damage which may not be covered by your warranty.
- Do not place any heavy objects on the power cable. Damage to the cable could cause shock, fire or product damage which may not be covered by your warranty.

- Disconnect all power cables for your interactive flat panel from the wall outlet and seek assistance from qualified service personnel when any of the following occurs:
  - The power cable or plug is damaged
  - Liquid is spilled into the interactive flat panel
  - Objects fall into the interactive flat panel
  - The interactive flat panel is dropped
  - Structural damage such as cracking occurs
  - The interactive flat panel behaves unexpectedly when you follow operating instructions

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Chapter 1

About your interactive flat panel

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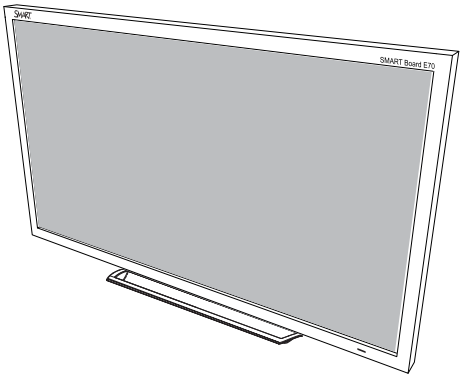
This chapter describes the features of your SMART Board® E70 interactive flat panel and provides information about product parts and accessories.

Feature highlights

Designed specifically for classrooms, the SMART Board E70 interactive flat panel combines a premium touch experience with the power of SMART Notebook™ collaborative learning software on a 70" display.



The high-definition, shadow-free 70" (177.8 cm) LED display features low friction coated glass that enables fingers to glide smoothly over the surface, facilitating a natural touch experience. The interactive flat panel also virtually eliminates glare and provides an optimal view from any angle in the classroom, delivering an unparalleled viewing and writing experience to offer the best value for classrooms. The multitouch interactive flat panel features freestyle multi-user interaction anywhere on the display with Windows® 7 or Windows 8 operating systems, enabling students to collaborate without limitations.

Included accessories

The following accessories are included with your interactive flat panel.

Pen

Two pens are included with your interactive flat panel.

Remote control

The remote control enables you to access the on-screen menus and to change the display and input settings.

Chapter 2

Installing your interactive flat panel

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WARNING

The weight of the interactive flat panel is 169.8 lb. (77 kg). Refer to local building codes to ensure your installation area can support this weight. For more information, see *SMART Board E70 interactive flat panel installation guide* (smarttech.com/kb/170533).

This chapter provides additional considerations and details for installing your interactive flat panel.

Choosing a mounting location

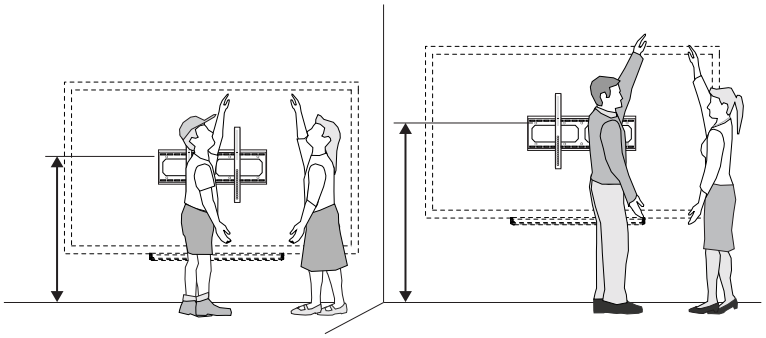
Consider the following when you select a location for the interactive flat panel:

- The wall must be strong enough to support the interactive flat panel and the mounting equipment. The interactive flat panel weighs 169.8 lb. (77 kg).
- Select a wall with a flat, regular surface and sufficient clearance to accommodate your interactive flat panel. For best presentation alignment, mount your interactive flat panel in a location that's central to your audience's viewing direction.
- Choose a location for your interactive flat panel that's far from bright light sources, such as windows and strong overhead lighting. Bright light sources can cause distracting shadows on your interactive flat panel and can cause glare.

For mobile or adjustable installation options, contact your authorized SMART reseller (smarttech.com/where).

Choosing a mounting height

Consider the general height of your user community when you choose the mounting height for the interactive flat panel.



Cable management

When connecting cables from the interactive flat panel to a computer and other peripheral devices, ensure the cables aren't a trip hazard. The use of channels and raceways safely hides cables. For accessories and options, contact your authorized SMART reseller.

IMPORTANT

Do not connect the power cable to a power outlet until you have connected all the other cables to the interactive flat panel.

Connecting your interactive flat panel

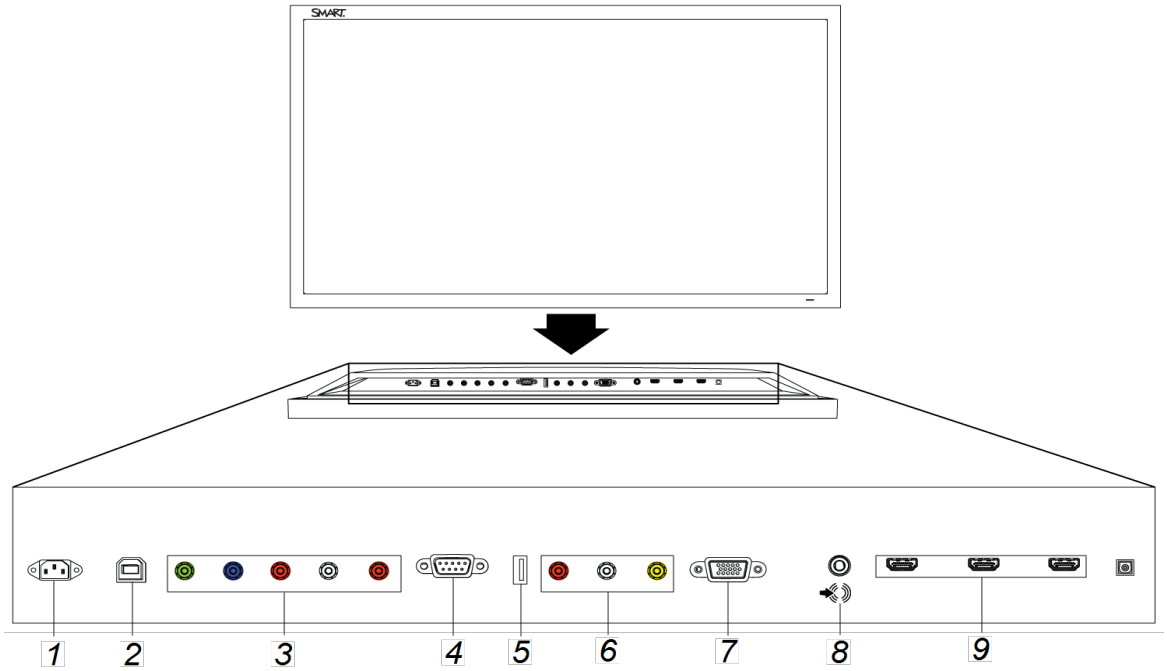
The connector panel is at the bottom of your interactive flat panel.

IMPORTANT

The VGA, RS-232, USB, 3.5 mm audio, component and composite cables should not exceed 9' (3 m).

NOTE

The power, VGA and USB cable are included with your interactive flat panel.



No.	Connector	Details
1	AC power	AC power pass-through
2	USB B receptacle	Computer to interactive flat panel touch interface
3	Video in	Component video receptacle
4	Room control in	RS-232 connector
5	USB A receptacle	Connect a USB drive and access the contents on it using the menu control panel or the remote control
6	Video in	Composite video receptacle
7	Video in	VGA
8	Audio in	Stereo 3.5 mm connector (from computer)
9	Video in	HDMI™

Chapter 3

Using your interactive flat panel

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- Picture settings 11
- Audio settings 11
- Setup settings 11
- Time settings 12

Multi Media mode 12
- Compatible file formats 12
  - Video 12
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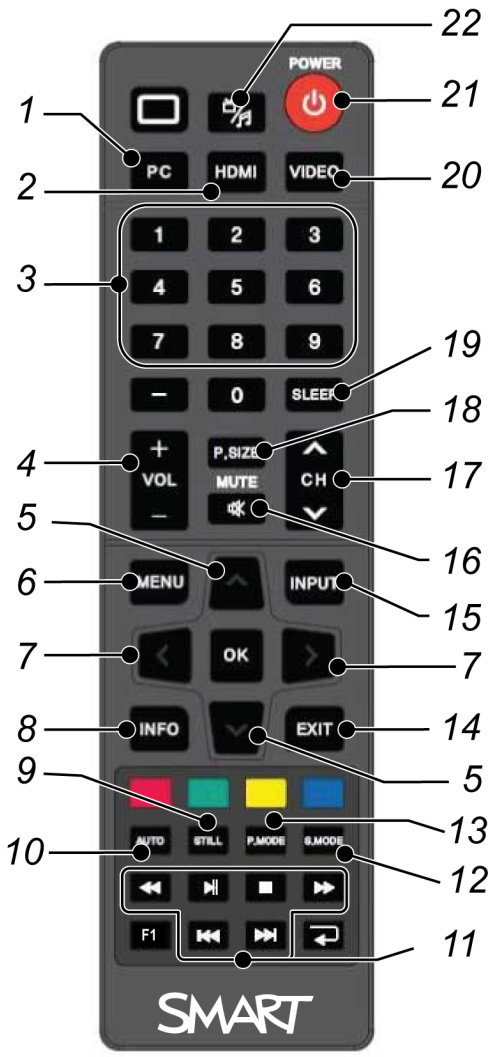
This chapter describes the basic operation and setup of your interactive flat panel.

Using the remote control

The infrared remote control enables you to turn on and turn off your interactive flat panel, to change the input source, to change the volume and more. You can also use the remote control to open the on-screen display menu and then change the interactive flat panel's settings.

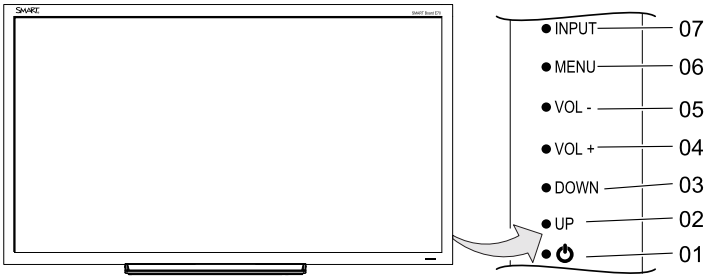


No.	Button	Details
1	PC	Selects the VGA input
2	HDMI	Select the HDMI input
3	[Number buttons]	Press buttons on the number pad to change channels
4	VOL +/-	Increase or decrease the audio output level
5	[Up and down buttons]	Select a menu option in the on-screen display menu
6	MENU	Display the on-screen display menu

No.	Button	Details
7	[Left and right buttons]	• Select an option in the on-screen display menu • Use the right button to increase a value • Use the left button to decrease a value
8	INFO	Display the current video source
9	STILL	Turn on or off the still picture mode
10	AUTO	Automatically adjusts the VGA video input
11	[Media buttons]	Use these while in Multi Media mode
12	S.MODE	Switch between stereo and mono sound
13	P.MODE	Switch between color modes
14	EXIT	Close the on-screen display menu
15	INPUT	Switch video inputs
16	MUTE	Mute audio inputs for your interactive flat panel
17	CH +/-	Change channels
18	P.SIZE	Select the video aspect ratio
19	SLEEP	Set the sleep timer
20	VIDEO	Select the RCA input
21	Power	Turn on or turns off the interactive flat panel
22	Multi Media button	Display the Multi Media mode

Menu control panel

The menu control panel enables you to access the on-screen display menu to adjust settings.



No.	Button	Details
1	Power	Turn on or turn off the interactive flat panel
2	UP	Move the highlighted area up to select items in the on-screen display menu
3	DOWN	Move the highlighted area down to select items in the on-screen display menu
4	VOL +	Move the highlighted area left to select items in the on-screen display menu, increase the audio output level and increase settings
5	VOL -	Move the highlighted area right to select items in the on-screen display menu, decrease the audio output level and decrease settings
6	MENU	Display the on-screen display menu
7	INPUT	Toggle between video inputs for your interactive flat panel

On-screen display menu

You can access the on-screen display (OSD) menu by pressing **MENU** on the menu control panel on the right side of the interactive flat panel or on the remote control. To exit the OSD menu, press **MENU** on the menu control panel on the right side of the interactive flat panel or **EXIT** on the remote control.

Picture settings

Menu item	Function
Picture Mode	Sets the picture mode to Custom, Standard, Mild or Vivid
Brightness	Adjusts the overall brightness of the image and background
Contrast	Adjusts the brightness of the image in relation to the background
Tint	Adjusts the tint of the screen
Color	Adjusts the color depth of the screen
Color Temp	Sets the color temperature to Normal, Warm or Cold

Audio settings

Menu item	Function
Surround	Turns on or off the surround sound
Sound Mode	Sets the audio mode to Music, Standard, User, News or Movie
Auto Volume	Turns on or off the automatic volume adjustment

Setup settings

Menu item	Function
Menu Language	Selects the language used by the OSD menu
Menu Trans.	Adjusts the transparency of the OSD menu
Screen Mode	Sets the image size to 16:9, 4:3, Zoom1 or Zoom2
Reset	Resets all Setup options
Software Update	**NOTE** Software update should be performed only by a system administrator. Please contact your authorized SMART reseller if you require further assistance.

Time settings

Menu item	Function
Time mode	Sets the time mode to automatic or manual
Time	Sets the time manually
Sleep Time	Sets the sleep timer
On Timer	Turns on the On Time function
On Time	Sets when the interactive flat panel turns on
Volume	Sets the volume when the interactive flat panel turns on
Off Timer	Turns on the Off Time function
Off Time	Sets when the interactive flat panel turns off

Multi Media mode

You can play video files, view images and listen to music stored on the USB drive. Use the remote control to pause, fast-forward and rewind videos.

Compatible file formats

The interactive flat panel can play the following file types.

Video

Category	Code
MPEG1	MPEG1
MPEG2	MPEG2

Category	Code
MPEG4	AVC
	MPEG-4 Visual
	DivX5
	DivX4
	DivX3
	XviD
	MS-MEG4 V3
	WMV3
MJPEG	M-JPEG

Audio

- AC-3
- AAC
- MP3
- PCM

Images

- JPEG
- BMP
- PNG
- GIF
- TIFF

To access content on the USB drive

1. Turn on the interactive flat panel
2. On the remote control press, the **Multi Media** button.
3. Connect a USB drive to the USB A receptacle on the bottom connector panel. See *Connecting your interactive flat panel* on page 4.
4. Use the remote control to select a file.
5. Press the **Play** button on the remote control to view the file.

Chapter 4

Troubleshooting your interactive flat panel

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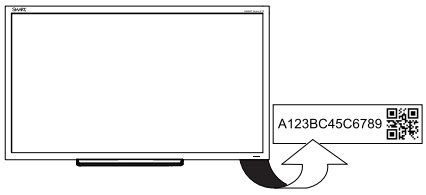
Resolving touch control issues 16

This chapter provides you with the information necessary to solve simple issues that occur with your interactive flat panel. If issues persist, or aren't covered in this chapter, contact SMART Support (smarttech.com/support) or your authorized SMART reseller (smarttech.com/where).

Locating the serial number

When you contact SMART Support, you might be asked to provide the interactive flat panel's serial number. The serial number is located under the front right bezel.



Resolving image issues

Problem	Causes	Solution
The interactive flat panel doesn't turn on.	The interactive flat panel isn't connected to a power source.	Connect your interactive flat panel to a power outlet.
	The interactive flat panel is in Sleep mode.	Press the Power button on the menu control panel or on the remote control.

Problem	Causes	Solution
When the video source is HDMI, the image and audio are low quality.	The cable between the HDMI source and the interactive flat panel could be loose.	Check all cable connections.
	The HDMI cable could be too long.	Ensure the HDMI cable doesn't exceed 9' (3 m).

Resolving touch control issues

Problem	Causes	Solution
Touch isn't working as expected.	The USB cable between the computer and the interactive flat panel could be loose.	Check all cable connections.
	Bright lights are interfering with the interactive flat panel.	Close blinds or shades or dim all halogen lights and LEDs.
	Your interactive flat panel isn't calibrated properly.	For more information, see smarttech.com/kb/170568 for computers running Windows 7 or Windows 8 operating system. **IMPORTANT** The E70 interactive flat panels are pre-calibrated and oriented at the factory. Calibration should be done only by an administrator.

Appendix A

Hardware environmental compliance

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

Waste Electrical and Electronic Equipment 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.

Batteries

Remote contains 2 AAA batteries. Recycle or dispose of batteries properly.

More information

See smarttech.com/compliance for more information.

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