## Specifications

### SMART Board™ 685ix interactive whiteboard system

#### Model 685ix

### Physical specifications

<table>
<thead>
<tr>
<th>SMART Board™ 685ix interactive whiteboard</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>77 1/2” W × 49 1/2” H × 5 1/8” D (196.9 cm × 125.7 cm × 13 cm)</td>
</tr>
<tr>
<td><strong>Active screen area</strong></td>
<td>74” W × 46 1/8” H (188 cm × 117.2 cm)</td>
</tr>
<tr>
<td>(maximum interactive projected image)</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>42 lb. (19.1 kg)</td>
</tr>
<tr>
<td><strong>Shipping size</strong></td>
<td>54” W × 86 1/4” H × 5 1/2” D (137.2 cm × 219.1 cm × 14 cm)</td>
</tr>
<tr>
<td><strong>Shipping weight</strong></td>
<td>63 lb. (28.6 kg)</td>
</tr>
</tbody>
</table>

### SMART UX60 projector

<table>
<thead>
<tr>
<th>SMART UX60 projector</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Projector size</strong></td>
<td>17 3/8” W × 10 1/2” H × 16 1/2” D (44.1 cm × 26.7 cm × 41.9 cm)</td>
</tr>
<tr>
<td><strong>Remote control</strong></td>
<td>1 5/8” W × 3 3/8” H × 1/4” D (4.1 cm × 8.6 cm × 0.6 cm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>22 lb. (10 kg)</td>
</tr>
<tr>
<td><strong>Shipping weight</strong></td>
<td>38 lb. 6 oz. (17.4 kg)</td>
</tr>
<tr>
<td><strong>Shipping size</strong></td>
<td>18 3/4” W × 18 1/8” H × 22 5/8” D (47.6 cm × 46 cm × 57.5 cm)</td>
</tr>
</tbody>
</table>

### Extended control panel (ECP)

<table>
<thead>
<tr>
<th>Extended control panel (ECP)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>6” W × 2 5/8” H × 2 1/4” D (15.2 cm × 6.6 cm × 5.8 cm)</td>
</tr>
<tr>
<td><strong>Shipping size</strong></td>
<td>9 3/8” W × 5” H × 10 3/8” D (23.8 cm × 1.3 cm × 26.3 cm)</td>
</tr>
</tbody>
</table>
Shipping weight 3 lb. + (1.4 kg)

Standard features

System requirements Windows® operating systems or Mac operating system software as detailed in the SMART Notebook™ collaborative learning software release notes (smarttech.com/kb/158853).

Software A software DVD is included with your interactive whiteboard: SMART Product Drivers and SMART Notebook software. Software upgrades are available from smarttech.com/software.

Environmental compliance China EIP, WEEE and EU RoHS

Regulatory certification UL (U.S./Canada), CB, CE, FCC, C-Tick and VCCI

Warranty The projector and ECP have a three-year limited equipment warranty. The SMART UX60 projector lamp has a 1000-hour/one-year warranty. Your interactive whiteboard has a two-year limited equipment warranty or a five-year limited equipment warranty upon registration. See warranty documents for details.

Installation instructions The installation instructions for your SMART Board 685ix interactive whiteboard system are included in the ECP box. Don’t use the installation instructions included in the interactive whiteboard box when installing the SMART Board 685ix interactive whiteboard system. Additional documentation is available from smarttech.com/support.

Power consumption 301 W in Standard mode and less than 1 W in Standby mode, in accordance with EuP regulations

Cables Includes the necessary cables to connect the projector to the ECP. However, you must supply the appropriate input cables for your devices.

Wire management bundle Enables you to connect secondary computers to the projector

Interactive whiteboard features

Pen tray Optical sensors in the pen tray detect when you lift a pen or the eraser from the tray. Indicator lights indicate the active tool.

Pens and eraser Black, red, green and blue pens and a rectangular eraser

Resolution Touch resolution is approximately 4000 × 4000.

Screen surface The hard-coated surface is tear proof, optimized for projection, compatible with dry-erase markers and easily cleaned with whiteboard cleaner.

Digitizing technology Resistive technology
Projector mounting template
Ensures simple installation and accurate alignment between your projector and your interactive whiteboard

Frame finish
Two-tone gray (Dark gray approximates PANTONE® Charcoal Gray 18-0601 TPX. Light gray approximates PANTONE Cool Gray 6C.)

Theft prevention
The pen tray has a locking feature and a Kensington® security slot.

SMART UX60 projector system features

System components
Ultra-short-throw SMART UX60 projector, mounting bracket, ECP, remote control, cleaning cloth and all necessary input cables from the ECP to the projector

Image adjustment
The adjustment module includes five mechanical adjustments for aligning the projector image with your interactive whiteboard. The projector also has a focus dial and a digital on-screen menu for brightness, contrast and other image attributes.

Display type
WXGA 1280 × 800 projector

Display technology
The projection engine uses single chip DLP® technology by Texas Instruments™, providing BrilliantColor™ performance, High Contrast and Gamma 2.1 correction with Bright Room, Dark Room, sRGB, User and SMART Presentation modes, and a six-segment color wheel.

Brightness
Estimated at 2000 lumens (typical) at a CCT of 6500 K by the IEC method

Lamp life
2500 hours (Standard 230 W mode) or 4000 hours (Economy 190 W mode)

Aspect ratio
Native 16:10 aspect ratio

Supports 16:9, 5:4 and 4:3 aspect ratios with source image scaling

Contrast ratio
2000:1

Video system compatibility
HDTV (720p and 1080i) video system compatibility and HD Ready (HDMI™ technology and 720p) available, NTSC, NTSC 4.43, PAL, PAL-N, PAL-M, SDTV (480i/p and 576i/p) and SECAM

Copy protection
HDCP compliant using the HDMI input connection

Video interface compatibility
VGA (RGB or Component), S-video, Composite video and HDMI

Synchronization
Auto image synchronization (auto tracking, frequency, position adjustment, source detect and phase detect)

Mounting hardware
Includes safety tether and hardware for mounting the SMART UX60 projector on framed, hollow and solid walls.
The template ensures simple installation and accurate alignment between the SMART UX60 projector and your SMART Board interactive whiteboard.

<table>
<thead>
<tr>
<th>Connector</th>
<th>Connect to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>Power supply</td>
</tr>
<tr>
<td>3-pin power mini-DIN 5V/1A output</td>
<td>[Not used]</td>
</tr>
<tr>
<td>4-pin power mini-DIN 5V/2A output</td>
<td>ECP harness cable</td>
</tr>
<tr>
<td>7-pin mini-DIN</td>
<td>ECP harness cable</td>
</tr>
<tr>
<td>DB9 RS-232F</td>
<td>ECP harness cable</td>
</tr>
<tr>
<td>3.5 mm phone jack audio input (×2)</td>
<td>Y cable</td>
</tr>
<tr>
<td>3.5 mm phone jack audio output</td>
<td>Speakers (not included)</td>
</tr>
<tr>
<td>RCA composite video input</td>
<td>Video source (not included)</td>
</tr>
<tr>
<td>(and left and right RCA audio input)</td>
<td>Video source (not included)</td>
</tr>
<tr>
<td>4-pin mini-DIN S-video input (and left and right RCA audio input)</td>
<td>Video source (not included)</td>
</tr>
<tr>
<td>HDMI input</td>
<td>High definition video source (not included)</td>
</tr>
<tr>
<td>RJ45</td>
<td>Network (for web page management and SNMP access)</td>
</tr>
<tr>
<td>USB B</td>
<td>Computer (for service access only)</td>
</tr>
</tbody>
</table>

- **Projector fan operating temperatures**
  - Standard speed – 0’ to 6000’ (0 m to 1800 m): 41°F to 95°F (5°C to 35°C)
  - High speed – 6000’ to 6800’ (1800 m to 2100 m): 41°F to 86°F (5°C to 30°C)

- **Projector noise**: 36 dBA (high fan speed) or 31 dBA (standard fan speed), measured using the JIS method

- **Power requirements**
  - 100V AC–240V AC, at 50 Hz–60 Hz

- **Power cable**: Includes a 14’ 9” (4.5 m) power cable

- **External control**: RJ45 connector for local area network (LAN) connections (cable not supplied) and RS-232 serial for room control systems

- **Remote control**: Provides the primary method of controlling projector settings

- **Theft protection**: The projector system features optional security screws on the projector plate to safeguard the adjustment knobs, and two optional padlocked rings to secure the system to the mounting bracket.

  A Kensington security slot is provided to secure the system to a wall as a visual and physical theft deterrent.
ECP features

<table>
<thead>
<tr>
<th>Connector</th>
<th>Connects to</th>
</tr>
</thead>
<tbody>
<tr>
<td>RJ11 6-wire</td>
<td>SMART Hub™ SE collaboration platform</td>
</tr>
<tr>
<td>USB A (×3)</td>
<td>USB drives or peripheral devices (not included)</td>
</tr>
<tr>
<td>RCA (×3)</td>
<td>Composite video and associated audio inputs</td>
</tr>
<tr>
<td>DB15-M</td>
<td>ECP harness cable</td>
</tr>
<tr>
<td>USB B</td>
<td>Primary computer</td>
</tr>
<tr>
<td>USB B</td>
<td>Secondary computer</td>
</tr>
<tr>
<td>USB A</td>
<td>SMART Board 685ix interactive whiteboard</td>
</tr>
</tbody>
</table>

Volume control

Controls sound range

Power button

Turns the interactive whiteboard and projector on and off

Input selection button

Select the projector video and audio inputs from the available sources:
- VGA 1 (primary computer)
- VGA 2 (secondary computer)
- Composite
- S-video
- HDMI

Storage and operating specifications

**Storage**
- Maximum storage temperature: 104°F (40°C)
- Minimum storage temperature: -4°F (-20°C)

**Operation**
41°F to 95°F (5°C to 35°C) from 0’ to 6000’ (0 m to 1800 m)
41°F to 86°F (5°C to 30°C) from 6000’ to 9800’ (1800 m to 3000 m)

SMART order numbers

685ix  SMART Board 685ix interactive whiteboard with a SMART UX60 projector
20-01175-20 Replacement SMART UX60 projector lamp
### Optional accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPEN-ER</td>
<td>Replacement set of four pen tray pens (black, red, green and blue) and a rectangular eraser</td>
</tr>
<tr>
<td>RPEN</td>
<td>Replacement set of four pen tray pens (black, red, green and blue)</td>
</tr>
<tr>
<td>SBA-L</td>
<td>Projection Audio System for the SMART Board 685ix interactive whiteboard system</td>
</tr>
</tbody>
</table>

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**NOTE**
The RS-232 to USB conversion module and WC6D wireless Bluetooth® connection option aren’t available for this model of SMART Board interactive whiteboard.
Physical dimensions

**Right side view**
- 16 1/2" (41.9 cm)
- 85" (215.9 cm)
- 78" (198.1 cm) (Recommended Height)
- 96" (243.8 cm)
- 5 1/8" (13 cm)

**Front view**
- 77 1/2" (196.9 cm)
- 17 3/8" (44.2 cm)
- 10 5/8" (26.9 cm)
- 3 3/8" (9.4 cm)
- 46 1/8" (117.2 cm)
- 74" (188.0 cm)

**ECP right side view**
- 1 1/8" (2.8 cm)
- 2 5/6" (6.6 cm)
- 2 1/4" (5.8 cm)

**ECP front view**
- 6" (15.2 cm)

**Projector mounting bracket**
- 8 7/8" (22.6 cm)
- 12" (30.5 cm)

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Support +1.403.228.5940 or Toll Free 1.866.518.6791 (U.S./Canada)

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