### Specifications

**SMART Board™ Interactive Whiteboard System**  
Model SBD685i3

#### Physical Specifications

**SMART Board™ 685 Interactive Whiteboard**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>77 1/2&quot; W × 50 5/8&quot; H × 5 1/8&quot; D</td>
</tr>
<tr>
<td></td>
<td>(196.9 cm × 128.6 cm × 13 cm)</td>
</tr>
<tr>
<td><strong>Active Screen Area</strong></td>
<td>74&quot; W × 46 1/8&quot; H</td>
</tr>
<tr>
<td>(maximum interactive,</td>
<td>(188 cm × 117.2 cm)</td>
</tr>
<tr>
<td>projected image)</td>
<td>87 1/8&quot; (221.3 cm) diagonal,</td>
</tr>
<tr>
<td></td>
<td>16:10 aspect ratio</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&quot; W × 86 1/4&quot; H × 5 1/2&quot; D</td>
</tr>
<tr>
<td></td>
<td>(137.2 cm × 219.1 cm × 14 cm)</td>
</tr>
<tr>
<td><strong>Shipping Weight</strong></td>
<td>72 lb. (32.7 kg)</td>
</tr>
</tbody>
</table>

**UF55w Projector System**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Size</strong></td>
<td>18 1/2&quot; W × 15 1/2&quot; H × 50 1/4&quot; D</td>
</tr>
<tr>
<td></td>
<td>(47 cm × 39.4 cm × 127.6 cm)</td>
</tr>
<tr>
<td><strong>Remote Control</strong></td>
<td>1 5/8&quot; W × 3 3/8&quot; H × 1/4&quot; D</td>
</tr>
<tr>
<td></td>
<td>(4 cm × 8.6 cm × 0.7 cm)</td>
</tr>
<tr>
<td><strong>Extended Control Panel</strong></td>
<td>11&quot; W × 7 5/8&quot; H × 2 3/8&quot; D</td>
</tr>
<tr>
<td></td>
<td>(27.9 cm × 19.4 cm × 6 cm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>33 lb. 14 oz. (15.4 kg)</td>
</tr>
<tr>
<td><strong>Shipping Size</strong></td>
<td>39 3/4&quot; W × 9 1/2&quot; H × 16&quot; D</td>
</tr>
<tr>
<td></td>
<td>(100.9 cm × 24.1 cm × 41.2 cm)</td>
</tr>
<tr>
<td><strong>Projector Box</strong></td>
<td>18 1/2&quot; W × 15 1/8&quot; H × 8 1/4&quot; D</td>
</tr>
<tr>
<td></td>
<td>(47 cm × 38.5 cm × 21 cm)</td>
</tr>
<tr>
<td><strong>Shipping Weight</strong></td>
<td>41 lb. 3 oz. (18.7 kg)</td>
</tr>
</tbody>
</table>

All dimensions +/- 1/8" (0.3 cm). All weights +/- 2 lb. (0.9 kg).
Standard Features

**Software**
Includes SMART Notebook™ collaborative learning software. See the SMART Notebook software specifications for a complete list of system requirements. Software upgrades are available from www2.smarttech.com/st/en-US/Support/SBS/.

**Environmental Compliance**
China EIP, EU WEEE and EU RoHS

**Regulatory Certification**
CSA (U.S./Canada), CB, CE, FCC, VCCI and C-Tick

**Warranty**
The projector and extended control panel (ECP) have a three-year limited equipment warranty. The UF55w projector lamp has a 500 hour/90 day warranty. Your interactive whiteboard has a two-year limited equipment warranty or a five-year limited equipment warranty upon registration. See included warranty documents for details.

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

Interactive Whiteboard Features

**Dual Touch/Dual Write**
Enables two users to work simultaneously in SMART Notebook software

**Pen Tray**
Optical sensors in the pen tray detect when you lift one or two pens, or the eraser, from the tray. LEDs indicate the active tools.

**Pens and Eraser**
Black, red, green and blue pen tray 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 cleans easily with whiteboard cleaner.

**Digitizing Technology**
Resistive technology

**Frame Finish**
Dark gray (approximates Pantone® Charcoal Gray 18-0601 TPX) and Ultrasonic Chrome (approximates metallic Pantone 877C)

**Wall-Mount Bracket**
Includes two 32" (81.3 cm) wide brackets, ten screws and ten drywall anchors to support your wall-mounted interactive whiteboard

**Projector Mounting Template**
This template ensures simple installation and accurate alignment between the UF55w projector and your SMART Board SBD685 interactive whiteboard.

**Installation Instructions**
Don’t use the installation instructions included in your SMART Board interactive whiteboard box when installing your SMART Board SBD685i3 interactive whiteboard system. The installation instructions for your SMART Board SBD685i3 interactive whiteboard system are included with the UF55w projector.

**Theft Prevention**
Features a pen tray locking feature and a Kensington® security slot on the pen tray
## UF55w Projector System Features

<table>
<thead>
<tr>
<th><strong>System Components</strong></th>
<th>UF55w projector, boom mount with a limit strap (including a controlled-collapse feature), ECP, remote control and all necessary input cables from the ECP to the projector</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Image Adjustment</strong></td>
<td>The mounting boom includes three mechanical adjustments for aligning the projector image with your interactive whiteboard. The projector also has a focus lever and a digital on-screen menu for brightness, contrast and other image-related attributes.</td>
</tr>
<tr>
<td><strong>Display Type</strong></td>
<td>WXGA 1280 × 800 projector</td>
</tr>
<tr>
<td><strong>Display Technology</strong></td>
<td>The projection engine uses DLP® technology by Texas Instruments™, providing BrilliantColor™ performance and quality Gamma 2.2 correction with Bright Classroom, Dark Classroom, sRGB and User modes.</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>Estimated at 2000 lumens (typical) at a CCT of 6500 K by the IEC method</td>
</tr>
<tr>
<td><strong>Lamp Life</strong></td>
<td>3000 hours (Standard 200 W mode) or 4000 hours (Economy 160 W mode)</td>
</tr>
<tr>
<td><strong>Aspect Ratio</strong></td>
<td>Support for 16:9, 16:10 and 4:5 ratios</td>
</tr>
<tr>
<td><strong>Contrast Ratio</strong></td>
<td>2000:1</td>
</tr>
<tr>
<td><strong>Video System Compatibility</strong></td>
<td>NTSC, NTSC 4.43, PAL, PAL-N, PAL-M and SECAM</td>
</tr>
<tr>
<td><strong>Video Interface Compatibility</strong></td>
<td>Composite, S-video, and VESA RGB, with additional interface support for Component YPbPr and Component YCbCR inputs with the proper adapters (not included)</td>
</tr>
<tr>
<td><strong>Video Format Compatibility</strong></td>
<td>Native 16:10 aspect ratio XGA projector resolution. With scaling, supports VGA, SVGA, SXGA, QuadVGA, SXGA+ and UXGA formats.</td>
</tr>
<tr>
<td><strong>Synchronization</strong></td>
<td>Auto image synchronization (auto tracking, frequency, position adjustment, source detect and phase detect)</td>
</tr>
<tr>
<td><strong>Mounting Hardware</strong></td>
<td>Includes hardware for mounting the UF55w projector and the ECP to framed and solid walls. Includes a safety tether and limit strap.</td>
</tr>
</tbody>
</table>
| **Input/Output Connections** | Two HD DB15F connectors – RGB video input from your computer and/or ECP via VGA connectors  
  HD DB15F connector – video output pass-through of Video Input 1 signal  
  4-pin mini-DIN connector – S-video input  
  One pair of audio jacks (RCA, stereo) – reserved for use with S-video  
  Composite video connector – RCA-style video input  
  One pair of audio jacks (RCA, stereo) – reserved for use with composite video  
  3.5 mm stereo jack – audio input from your computer  
  3.5 mm stereo jack – audio output to connect speakers  
  DB9M – serial (RS-232) for power to and communication with the ECP  
  RJ-45 – network connection for SNMP management and control, and for sending e-mail alerts |
Projector Fan
- Standard speed – 0 to 6000’ (0 m to 1829 m): 41°F to 95°F (5°C to 35°C)
- High speed – 6000’ to 6800’ (1829 m to 2073 m): 41°F to 86°F (5°C to 30°C)

Projector Noise
36 dBA (high fan speed) or 31dBA (standard fan speed), measured using JIS method

Power Requirements
100V AC to 240V AC, at 50 Hz to 60 Hz

Power Cable
Includes a 14’ 9” (4.5 m) power cable

External Control
The RS-232 connector is configured to accept control codes from your computer or a room control system.

Power Consumption
385 W (Standard mode) to 504 W maximum. 5 W in Standby mode.

Remote Control
Provides an alternative method of controlling the UF55w projector settings

Theft Protection
The UF55w projector system features an optional padlocked ring to safeguard the adjustment knob. The projector won’t function if it's separated from the ECP and can’t be operated without the remote control. A Kensington security lock slot is provided to affix the system to a wall as a visual and physical theft deterrent.

ECP Features

Input/Output Connections
- HD DB15F connector – RGB video from your computer (supports component video CAV, YPbPr or YUV)
- HD DB15F connector – RGB video to the projector
- DB9F – serial (RS-232) computer or room control connection
- DB25M – provides input signals and control signals to the projector
- 4-pin mini-DIN connector – S-video input
- One pair of audio jacks (RCA, stereo) – reserved for S-video
- Composite video connector – RCA-style video input
- One pair of audio jacks (RCA, stereo) – reserved for composite video
- 3.5 mm stereo jack – computer audio input

Power Button
Turns the projector on and off

Input Selection Buttons
Provide control for the following input types:
- S-video and associated audio (RCA jacks)
- Composite video and associated audio (RCA jacks)
- Computer 2 VGA input and associated 3.5 mm audio stereo jack
Storage and Operating Specifications

**Storage**
- Maximum storage temperature: 122°F (50°C)
- Minimum storage temperature: -40°F (-40°C)

**Operation**
- Using standard fan speed, 41°F to 95°F (5°C to 35°C) from sea level to an altitude up to 6000' (0 m to 1829 m)
- Using high fan speed, 41°F to 86°F (5°C to 30°C) from 6000' to 6800' (1829 m to 2073 m)
- In Service mode, 41°F to 86°F (5°C to 30°C) from 6800' to 9800' (2073 m to 2987 m)

SMART Order Numbers

SBD685i3 87 1/8" (221.3 cm) diagonal dual-touch SMART Board 685 interactive whiteboard with a UF55w projector
20-01032-20 Replacement projector lamp

Optional Accessories

**NOTE**
The RS-232 to USB conversion module and WC6 wireless Bluetooth® connection option aren’t available for this model of SMART Board interactive whiteboard.

RPEN-ER Replacement set of four pen tray pens (black, red, green and blue) and a rectangular eraser
RPEN Replacement set of four pen tray pens (black, red, green and blue)
SBA USB audio system for SMART Board SBD600i interactive whiteboard systems
Physical Dimensions

Right Side View

Front View

ECP Right Side View

ECP Front View

Projector Mounting Bracket

5 1/8" (13 cm)

7 1/2" (19.4 cm)

18 1/2" (47 cm)

10 3/4" (27.3 cm)

74" (188 cm)

3 1/4" (8.3 cm)

15" (38.1 cm)

85" (215.9 cm)

7 5/8" (19.4 cm)

2 3/8" (6 cm)

7 1/2" (19.4 cm)

11" (27.9 cm)

2 3/8" (6 cm)

7 1/2" (19.4 cm)

11" (27.9 cm)

2 3/8" (6 cm)

7 1/2" (19.4 cm)

11" (27.9 cm)

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