SMART Board® interactive whiteboard system
Model SB685i6

Overview

Your SMART Board® 685i6 interactive whiteboard system combines the use of a SMART Board 600 series interactive whiteboard and a the SMART UF70w projector along with other accessories and optional equipment.

The SMART UF70w projector provides an ultra-bright high resolution image on a short boom delivering high definition, high performance interactivity that is virtually shadow-free and glare-free. You can do everything you can do at your computer—open and close applications, meet with others, create new documents or edit existing ones, visit websites, play and manipulate video clips and more—just by touching the interactive surface. The SB685 series interactive whiteboard is a single user one touch system that provides unmatched durability and unceasing performance under any conditions.

The SB685i6 system supports video and audio from a variety of devices, including DVD and Blu-ray™ players, document cameras, and other high-definition sources, and is displayed on the interactive screen. All HDMI 1.4 inputs are HDCP compliant.

See smarttech.com for more information on this product.
**Dimensions and weights**

**SMART Board® SB685i6**

**Dimensions**

- **SMART Board 685 interactive whiteboard**
  - **Weight**
    - 19.1kg (42lb)
  - **Dispatch dimensions**
    - 137.2cm W x 219.1cm H x 14cm D
    - (54" x 86.1/4" x 5 1/2")
  - **Dispatch weight**
    - 28.6kg (63lb)

- **SMART UF70w projector**
  - **Weight (projector only)**
    - 7.6kg (16 lb 11 oz)
  - **Weight (projector + boom)**
    - 12.9kg (28lb 6oz)
  - **Dispatch weight**
    - 16.2kg (35 lb 13oz)
  - **Projector dimensions**
    - 37.1cm W x 24.1cm H x 73cm D
    - (14 5/8" x 9.5" x 28 3/4"
  - **Dispatch dimensions**
    - 50.8cm W x 39.4cm H x 61cm D
    - (20" x 15 1/2" x 24")

- **Extended control panel (ECP)**
  - **Dimensions**
    - 15.2cm W x 6.6cm H x 5.8cm D
    - (6" x 2 5/8" x 2 1/4")
  - **Weight**
    - 2.1kg (4 lb 8oz)
  - **Dispatch dimensions**
    - 23.8cm W x 12.8cm H x 26.4cm D
    - (9.3" x 5" x 10 3/8")
  - **Remote control**
    - **Dimensions**
      - 4.1cm W x 8.6cm H x 0.6cm D
      - (1 5/8" x 3 3/8" x 1/4")

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*All dimensions ± 0.3cm (1/8”). All weights ± 0.9kg (2lb)*
## Hardware

### Projector

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brightness (standard)</strong></td>
<td>3000 lumens 230 W mode at a CCT of 6500 K by the IEC method</td>
</tr>
<tr>
<td><strong>Brightness (economy)</strong></td>
<td>2250 lumens 190 W mode. at a CCT of 6500 K by the IEC method</td>
</tr>
<tr>
<td><strong>Native resolution</strong></td>
<td>WXGA 1280 × 800</td>
</tr>
<tr>
<td><strong>Aspect ratio</strong></td>
<td>16:10 with support for 16:9, and 4:3 and 5:4 ratio with scaling</td>
</tr>
<tr>
<td><strong>Throw ratio</strong></td>
<td>Short throw 0.35:1 ratio</td>
</tr>
<tr>
<td><strong>Throw distance</strong></td>
<td>65.5cm (25.75&quot;)</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 Room, Dark Room, sRGB, User and SMART Presentation modes.</td>
</tr>
<tr>
<td><strong>Lamp life</strong></td>
<td>3000 hours in Standard 230 W mode. 4000 hours in Economy 190 W mode.</td>
</tr>
<tr>
<td><strong>Integrated loud speaker</strong></td>
<td>9 W rms</td>
</tr>
<tr>
<td><strong>Projector noise</strong></td>
<td>32 dBA standard fan speed and 37dBA high fan speed.</td>
</tr>
<tr>
<td><strong>Contrast ratio (typical)</strong></td>
<td>2900:1</td>
</tr>
<tr>
<td><strong>Video system compatibility</strong></td>
<td>HDTV (720p and 1080p) video system compatibility and HD Ready (HDMI technology and 720p) available, NTSC, NTSC 4:43, PAL, PAL-N, PAL-M and SECAM (480i/p and 576i/p)</td>
</tr>
<tr>
<td><strong>Video interface compatibility</strong></td>
<td>HDCP compliant HDMI, Composite, VESA® RGB with additional interface support for Component YPbPr and Component YCbCr inputs with the proper adapters (not included)</td>
</tr>
<tr>
<td><strong>Horizontal frequency</strong></td>
<td>15 kHz–72 kHz</td>
</tr>
<tr>
<td><strong>Vertical frequency</strong></td>
<td>15 Hz–75 Hz</td>
</tr>
<tr>
<td><strong>Clock frequency</strong></td>
<td>165 Mhz</td>
</tr>
<tr>
<td><strong>External management</strong></td>
<td>Infrared remote control, RS-232 control port, internal webpage, Crestron® RoomView® management via Ethernet</td>
</tr>
</tbody>
</table>

### Interactive whiteboard

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Touch resolution</strong></td>
<td>4000 × 4000</td>
</tr>
<tr>
<td><strong>Touch</strong></td>
<td>Robust single touch system</td>
</tr>
<tr>
<td><strong>Digitising technology</strong></td>
<td>Resistive technology</td>
</tr>
<tr>
<td><strong>Pen tray</strong></td>
<td>Optical sensors in the pen tray light to indicate the active tool.</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>Four ergonomic pens with comfort grip and rectangular eraser</td>
</tr>
<tr>
<td><strong>Extended Control Panel (ECP)</strong></td>
<td>SB685i6 - included with the system.</td>
</tr>
</tbody>
</table>
### Included cables and hardware SB685i6

- 4.5m (14' 9") power cable
- Infrared remote control
- 5m (16' 5") USB cable
- 4.1m (13' 5.5") 3.5 mm stereo audio cable
- Projector wiring harness

### Theft protection

- Projector system padlock ring
- SB600 system - Kensington security slot

### Connectors

#### Projector connectors

- 3.5mm phone jack audio input
- 3.5mm phone jack audio output
- DB15F RGB VGA video input (VGA In)
- DB15F RGB VGA video input (VGA Out)
- DB9F RS-232 control port
- HDMI 1.4 input
- Power (100V–240V AC at 50 Hz–60 Hz)
- USB-B port (for service use only)
- Cat 5- ethernet cable
- 7-pin mini-DIN for ECP data
- 4-pin mini-DIN 5V/2A output for ECP USB HUB/switch power
- RCA analogue audio and composite video (red, white and yellow)
- Microphone 3.5 mm

#### ECP connectors

- RJ11 6-wire SMART Hub™ SE collaboration platform
- DB15-M ECP harness cable to projector
- RCA (×3) Composite video and associated audio inputs
- USB A SMART Board 685 interactive whiteboard
- USB A (×3) USB drives or peripheral devices (not included)
- USB B Primary computer (desktop label)
- USB B Secondary computer (laptop label)

### Computer requirements

**SB685i-6**

Windows® operating system or Mac operating system software and SMART Notebook™ collaborative learning software installed. For a complete list of computer requirements, go to [Smarttech.com/downloads](https://Smarttech.com/downloads) and browse to the latest SMART Notebook software release notes applicable to your operating system.

### Storage and operating requirements

#### Power requirements and consumption

<table>
<thead>
<tr>
<th>Mode</th>
<th>Power consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full mode</td>
<td>360 W</td>
</tr>
<tr>
<td>ECO mode</td>
<td>360 W</td>
</tr>
<tr>
<td>Standby mode</td>
<td>0.5 W</td>
</tr>
</tbody>
</table>

#### Operating temperature

<table>
<thead>
<tr>
<th>Interactive whiteboard</th>
<th>Temperature and Altitude</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5°C to 35°C (41°F to 95°F) from 0m to 1800m (0' to 6000')</td>
</tr>
<tr>
<td></td>
<td>5°C to 30°C (41°F to 86°F) from 1800m to 3000m (6000' to 9800')</td>
</tr>
</tbody>
</table>
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### Projector
- Standard speed: 5°C to 35°C (41°F to 95°F) from 0m to 1800m (0' to 6000')
- High speed: 5°C to 30°C (41°F to 86°F) from 1800m to 210m (6000' to 6800')

### Storage temperature
- -20°C (-4°F) to 50°C (122°F)

### Humidity
- Up to 80% storage relative humidity, non-condensing
- Up to 80% operating relative humidity, non-condensing

### Certification and compliance

#### Regulatory certification
- CB, CCC, CE, C-Tick, FCC, KC, GOST-R, NOM, PSB, PSE, SASO, TUV-GS, UL/CSA (US/Canada) and VCCI

#### Environmental compliance
- **China**: EIP
- **European Union**: REACH, RoHS, WEEE, Battery, Packaging and ErP Standby
- **US**: Packaging and Conflict Minerals

### Warranty

#### Interactive whiteboard
- Two-year limited equipment warranty OR
- Five-year limited equipment warranty upon registration

#### Projector
- Two-year limited equipment warranty

#### Projector lamp
- 1000-hour/one-year warranty

#### ECP
- Two-year limited equipment warranty

### Purchasing information

#### Order numbers

- **SB685i6**: 221cm (87") diagonal SMART Board interactive whiteboard with a SMART UF70w projector system. Includes a SMART Notebook software installation DVD.
- **1020991**: Replacement lamp for SMART UF70 and UF70w projectors
- **1013576**: Projector hardware kit (see smarttech.com/kb/160505)

#### Optional extended warranty

- **(EWY1-UF70W)**: SMART UF70w projector one-year warranty extension (available at time of projector purchase only)
- **(EWY3-UF70W)**: SMART UF70w projector three-year warranty extension (available at time of projector purchase only)

#### Optional accessories
- See smarttech.com/accessories

smarttech.com/support
smarttech.com/contactsupport

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