Specifications

SMART Board® interactive whiteboard system
Model SBM685i6

Overview
Your SMART Board® M685i6 interactive whiteboard system combines the use of a SMART Board M685 interactive whiteboard and a 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 SBM685i6 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

**Dimensions**

SMART Board M685 interactive whiteboard

Weight

23.1kg (51lb)

Dispatch dimensions

208.3cm W × 134.6cm H × 11.4cm D

(82" × 53" × 4 1/2")

Dispatch weight

31.3kg (69 lb)

**SMART UF70w projector**

Weight (projector only)

7.6kg (16lb 11oz)

Weight (projector and boom)

12.9kg (28lb 6oz)

Dispatch dimensions

50.8cm W × 39.4cm H × 61cm D

(20" × 15 1/2" × 24")

**Accessory box**

Dispatch dimensions

83.8cm W × 10.2cm H × 17.8cm D

(33" × 4" × 7")

Dispatch weight

2.4kg (5lb 3oz)

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1 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>Brightness (standard)</td>
<td>3000 lumens in 230 W mode at a CCT of 6500 K by the IEC method</td>
</tr>
<tr>
<td>Brightness (economy)</td>
<td>2250 lumens in 190 W mode at a CCT of 6500 K by the IEC method</td>
</tr>
<tr>
<td>Native resolution</td>
<td>WXGA 1280 × 800</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:10 with support for 16:9, 4:3 and 5:4 ratio with scaling</td>
</tr>
<tr>
<td>Throw ratio</td>
<td>Short throw 0.35:1 ratio</td>
</tr>
<tr>
<td>Throw distance</td>
<td>65.5 cm (25 3/4&quot;)</td>
</tr>
<tr>
<td>Display technology</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>Lamp life</td>
<td>3000 hours in Standard 230 W mode. 4000 hours in Economy 190 W mode.</td>
</tr>
<tr>
<td>Integrated loud speaker</td>
<td>9 W RMS</td>
</tr>
<tr>
<td>Projector noise</td>
<td>32 dBA (standard fan speed) or 37 dBA (high speed fan speed)</td>
</tr>
<tr>
<td>Contrast ratio (typical)</td>
<td>2900:1</td>
</tr>
<tr>
<td>Video system compatibility</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>Video interface compatibility</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>Horizontal frequency</td>
<td>15 kHz–72 kHz</td>
</tr>
<tr>
<td>Vertical frequency</td>
<td>15 Hz–75 Hz</td>
</tr>
<tr>
<td>Clock frequency</td>
<td>165 MHz</td>
</tr>
<tr>
<td>External management</td>
<td>Infrared remote control, RS-232 control port, internal webpage, Crestron® RoomView® management via Ethernet.</td>
</tr>
</tbody>
</table>

### Theft protection

- Projector system padlock ring

### Included cables and hardware

- 4.5m (14’ 9") power cable
- Infrared remote control measuring 4.1cm W x 8.6cm H x 0.6cm D (1 5/8" × 3 3/8" × 1/4")
- 5m (16’) USB cable
- Projector wiring harness

### Interactive whiteboard

#### Multitouch capabilities

Support for two simultaneous touches enables up to two users to interact with the interactive whiteboard by using the pens included or other objects, or by using their fingers to write and to perform gestures.

#### Digitising technology

Four-camera DVIT® (Digital Vision Touch) technology
### SPECIFICATIONS
SMART Board interactive whiteboard – Model SBM685i6

**Pen tray**
The pen tray connects to the interactive whiteboard. Use the colour select buttons to change digital ink colours. The on-screen keyboard, the right-click and the orientate features are also accessible with pen tray buttons. Basic projector controls are accessible from the pen tray, including power, volume control and input select.

**Pen**
Includes two pens

**Power requirements**
1.8m (6’) power cable  
Power consumption is less than 7 W (100V to 240V AC, 50/60 Hz, 5V DC 2.0A).

**Computer connection**
5m (16’) USB 2.0 cable

### 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)
- RJ45 Ethernet connector
- 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)
- 3.5mm microphone

**Pen tray connectors**
- DB15-M connects harness cable to projector
- 4-pin room control system via SB8-CTRL adapter cable
- USB A connects to interactive whiteboard
- USB B (×2) connects to primary and secondary computers (desktop/laptop labels)
- USB A for USB drive
- RCA analogue audio and composite video (red, white and yellow)

### Computer requirements

**SBM685i6**
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 and browse to the latest SMART Notebook software release notes applicable to your operating system.

### Storage and operating requirements

<table>
<thead>
<tr>
<th>Power requirements and consumption</th>
<th>100V–240V AC at 50 Hz–60 Hz</th>
</tr>
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<tbody>
<tr>
<td><strong>Full mode</strong></td>
<td>360 W</td>
</tr>
<tr>
<td><strong>Economy mode</strong></td>
<td>360 W</td>
</tr>
<tr>
<td><strong>Standby mode</strong></td>
<td>0.5 W</td>
</tr>
</tbody>
</table>

### Operating temperature

<table>
<thead>
<tr>
<th>Power requirements and consumption</th>
<th></th>
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<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td><strong>Interactive whiteboard</strong></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>
<tr>
<td><strong>Projector</strong></td>
<td>Standard speed: 5°C to 35°C (41°F to 95°F) from 0m to 1800m (0' to 6000')</td>
</tr>
<tr>
<td></td>
<td>High speed: 5°C to 30°C (41°F to 86°F) from 1800m to 2100m (6000' to 6800')</td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
<td>-20°C (-4°F) to 50°C (122°F)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>Up to 80% storage relative humidity, non-condensing.</td>
</tr>
<tr>
<td></td>
<td>Up to 80% operating relative humidity, non-condensing.</td>
</tr>
</tbody>
</table>

### Certification and compliance

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

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

### Warranty

<table>
<thead>
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<th>Component</th>
<th>Warranty Details</th>
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<tr>
<td>Interactive whiteboard</td>
<td>Two-year limited equipment warranty</td>
</tr>
<tr>
<td>Projector</td>
<td>Two-year limited equipment warranty</td>
</tr>
<tr>
<td>Projector lamp</td>
<td>1000-hour/one-year warranty</td>
</tr>
</tbody>
</table>

### Purchasing information

#### Order numbers
- **SBM685i6**: 221cm (87") diagonal SMART Board M685 interactive whiteboard with a SMART UF70w projector system. Includes a SMART Notebook software installation DVD.
- **1020991**: Replacement lamp module for SMART UF70 / UF70w projectors
- **1013576**: Projector mounting kit (see smarttech.com/kb/160505)
- **1020342**: SMART Board interactive whiteboard hardware kit (see smarttech.com/kb/170475)

#### 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)
- **EWY1-SBM**: SMART Board M600 series interactive whiteboard one-year warranty extension (available at time of projector purchase only)
- **EWY3-SBM**: SMART Board M600 series interactive whiteboard three-year warranty extension (available at time of projector purchase only)

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