# Specifications

# SMART Board™ interactive whiteboard system

## Model 680iv

### Physical specifications

**SMART Board™ 680 interactive whiteboard**

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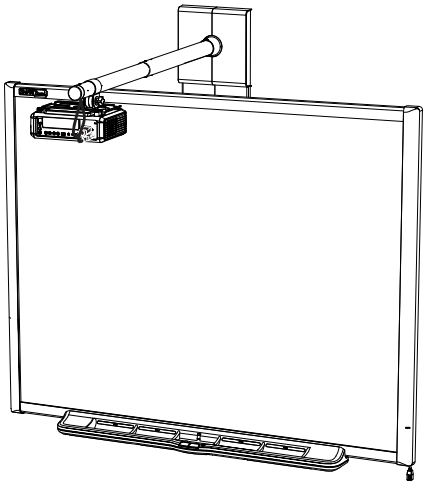
| Size | 65 1/4" W × 49 1/2" H × 5 1/8" D<br>(165.7 cm × 125.7 cm × 13 cm) |
| Active screen area (maximum interactive projected image) | 61 5/8" W × 46 1/8" H<br>(156.5 cm × 117.2 cm)<br>77" (195.6 cm) diagonal |
| Weight | 30 lb. (13.6 kg) |
| Shipping size | 73 1/2" W × 54" H × 5 1/2" D<br>(186.7 cm × 137.2 cm × 14 cm) |
| Shipping weight | 45 lb. (20.5 kg) |



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

**SMART V25 projector system**

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| Projector | 18 1/2" W × 15 1/2" H × 51 1/4" D (47 cm × 39.4 cm × 130.2 cm) |
| Remote control | 1 5/8" W × 3 3/8" H × 1/4" D (4 cm × 8.6 cm × 0.7 cm) |
| Weight | 14 lb. 8 oz. (6.7 kg) |
| Shipping size | Mounting kit box<br>28 1/2" W × 18" H × 6 5/8" D (72.5 cm × 45.5 cm × 17 cm)<br>Projector box<br>17 3/4" W × 12 7/8" H × 6 3/8" D (45 cm × 32.6 cm × 16.1 cm) |
| Shipping weight | 20 lb. 8 oz. (9.3 kg) |

## Standard features

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| **System requirements** | Windows® operating systems and Linux® operating systems. See the SMART Notebook™ collaborative learning software release notes for Windows operating systems (smarttech.com/kb/126571), or Linux operating systems (smarttech.com/kb/146487) for a complete list of system requirements. |
| **Software** | The DVD includes SMART Notebook software and SMART Product Drivers. Software upgrades are available from smarttech.com/software. |
| **Environmental compliance** | Batteries, China EIP, EU RoHS, EU WEEE, Packaging and US CPSIA |
| **Regulatory certification** | |
| Interactive whiteboard system | CE, C-Tick, FCC, GOST-R |
| Interactive whiteboard | cCSAus |
| Projector | CB, cULus, CCC, KC, NOM, PSB, PSE, TUV-GS, VCCI |
| **Warranty** | The projector and projector lamp have a two-year limited equipment 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. |
| **Power consumption** | 301 W in Standard mode and less than 1 W in Standby mode, in accordance with EuP regulations |
| **Cables** | Includes a 16' (5 m) USB cable and a country-specific power cable |

## Interactive whiteboard features

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| **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 |

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| **Projector mounting template** | Ensures simple installation and accurate alignment between your projector and your interactive whiteboard |
| **Frame finish** | PANTONE® Charcoal Gray 18-0601 TPX and Silver Cool Gray 877C |
| **Wall-mount bracket** | Includes a 32" (81.3 cm) wide bracket, five screws and five drywall anchors to support your wall-mounted interactive whiteboard |
| **Installation instructions** | The installation instructions included in your SMART Board 680iv interactive whiteboard system are included in the projector boom box. Additional documentation is available from smarttech.com/support. |

**IMPORTANT**

Do not use the installation instructions included in the interactive whiteboard box when installing your SMART Board 680iv interactive whiteboard system.

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

## SMART V25 projector system features

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| **System components** | SMART V25 projector, remote control and boom mount with a safety tether |
| **Image adjustment** | The boom mount includes mechanical adjustments for aligning the projector image with your interactive whiteboard. The projector also has a focus ring and a digital on-screen menu for brightness, contrast and other image attributes. |
| **Display type** | Native XGA 1024 × 768 projector |
| **Display technology** | 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. |
| **3D technology** | 3D-ready projector using DLP Link™ technology |
| **Brightness** | Estimated at 2000 lumens (typical) at a CCT of 6500 K by the IEC method |
| **Lamp life** | 4500 hours (Standard 190 W mode) or 6000 hours (Economy 160 W mode) |
| **Aspect ratio** | Native 4:3 aspect ratio, with support for 16:9, 16:10 and 5:4 aspect ratios |
| **Contrast ratio** | 1600:1 |
| **Video system compatibility** | NTSC, NTSC 4.43, PAL, PAL-M, PAL-N, SECAM |

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| **Video interface compatibility** | Composite, S-video, and VESA® RGB, with additional interface support for Component YPbPr and Component YCbCR inputs with the proper adapters (not included) | |
| **Video format compatibility** | Native 4:3 aspect ratio XGA resolution. Supports VGA, SVGA, SXGA, Quad VGA, SXGA+ and UXGA formats with scaling. | |
| **Synchronization** | Auto image synchronization (auto tracking, frequency, position adjustment, source detect and phase detect) | |
| **Input/output connections** | HD DB15F connector | RGB video input from the computer |
| | 4-pin mini-DIN connector | S-video input |
| | Pair of audio jacks (RCA, stereo) | reserved for use with S-video |
| | Composite video connector | RCA-style video input |
| | Pair of audio jacks (RCA, stereo) | reserved for use with composite video |
| | 3.5 mm stereo jack | audio input from the computer |
| | 3.5 mm stereo jack | audio output to connect speakers |
| | RJ45 | network connection for SNMP management and control, and for sending e-mail alerts |
| | DB9F (RS-232) connector | input for control codes from external source |
| **Projector noise** | 36 dBA (high fan speed) or 31 dBA (standard fan speed), measured using the JIS method | |
| **Power requirements** | 100V AC to 240V AC, at 50 Hz to 60 Hz | |
| **Power cable** | Includes a 14' 9" (4.5 m) country-specific power cable | |
| **Room control** | The DB9F (RS-232) connector is configured to accept control codes from your computer or a room control system. | |
| **Power consumption** | 240 W in High Brightness, 200 W in Economy mode and <1 W in Standby mode (without a network connection) | |
| **Remote control** | Provides an alternative method of controlling the projector settings | |
| **Theft protection** | The projector system features an optional padlocked ring to prevent theft.<br>A Kensington security lock slot is provided to secure the system to a wall as a visual and physical theft deterrent. | |

## Storage and operating specifications

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| **Storage** | -4°F to 158°F (-20°C to 70°C) at 5% to 90% relative humidity (non-condensing) |

**Operation**

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| Humidity | 5% to 85% relative humidity at 0' to 9800' (0 m to 3000 m) |
| Temperature | • 41°F to 95°F (5°C to 35°C) from 0' to 6000' (0 m to 1800 m)<br>• 41°F to 86°F (5°C to 30°C) from 6000' to 9800' (1800 m to 3000 m) |
| Fan mode | • Automatic from 0' to 6500' (0 m to 2000 m)<br>• Manually set to High using the service menu from 6500' to 9800' (2000 m to 3000 m) |

## SMART order numbers

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|---|---|
| **SB680iv** | SMART Board 680 interactive whiteboard with a SMART V25 projector |
| **SB680iv-A** | SMART Board 680 interactive whiteboard with a SMART V25 projector and 20 W audio system |
| **20-01500-20** | Replacement projector lamp |
| **RPEN** | Replacement set of four pen tray pens (black, red, green and blue) |
| **RPEN-ER** | Replacement set of four pen tray pens (black, red, green and blue) and a rectangular eraser |

## Optional accessories

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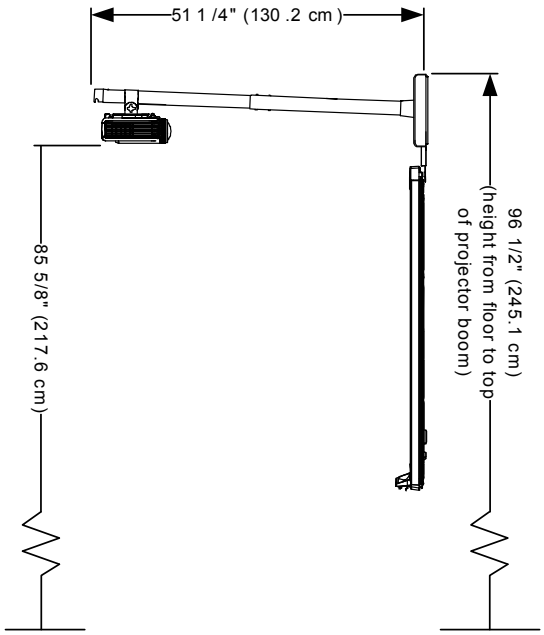
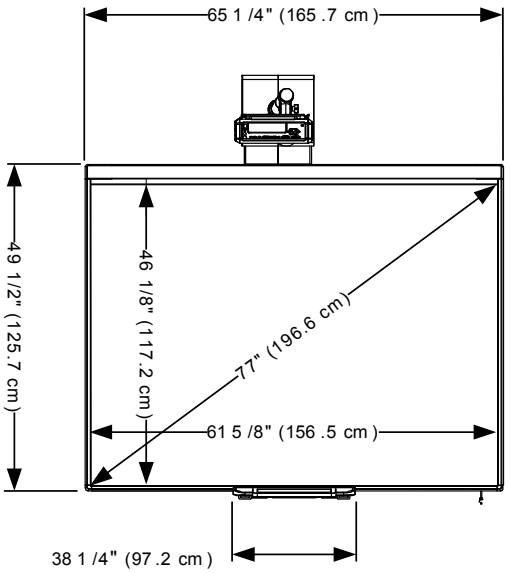
| **20-01623-20** | Mounting hardware kit for the SMART V25 projector |
| **SBA-V** | 20 W audio system for SMART Board 680iv interactive whiteboard systems |
| **HAWM-UX/UF** | SMART Height-Adjustable Wall Mount |
| **FS-UX** | Mobile height-adjustable floor stand solution for SMART Board interactive whiteboards. This product includes both the height-adjustable wall mount and the floorstand. |
| **AK-00122-20** | SMART V25 projector image stabilizer for the SMART Height-Adjustable Wall Mount |
| **USB-XT** | USB extender |
| **WC6D** | Wireless Bluetooth® connection for SMART Board 600 and D600 series interactive whiteboards |

## Physical dimensions

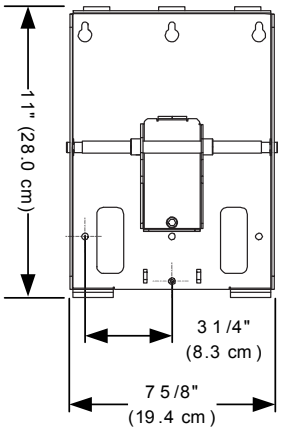
**Right side view**




**Front view**




**Projector mounting bracket**



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