Specifications

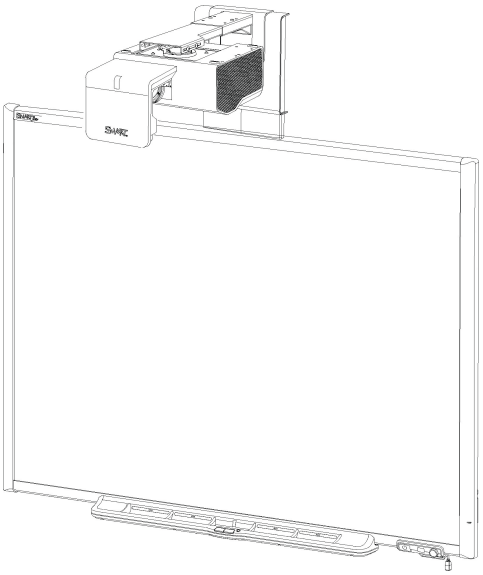
SMART Board™ interactive whiteboard system

Model 685i5

Physical specifications

SMART Board™ 685 interactive whiteboard

Size	77 1/2" W × 49 1/2" H × 5 1/8" D (196.9 cm × 125.7 cm × 13 cm)
Active screen area (maximum interactive projected image)	74" W × 46 1/8" H (188 cm × 117.2 cm) 87 1/8" (221.3 cm) diagonal 16:10 aspect ratio
Weight	42 lb. (19.1 kg)
Shipping size	54" W × 86 1/4" H × 5 1/2" D (137.2 cm × 219.1 cm × 14 cm)
Shipping weight	63 lb. (28.6 kg)



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

SMART UF75w projector

Projector	14" W × 15 1/2" H × 27" D (35.6 cm × 39.4 cm × 68.6 cm)
Remote control	1 5/8" W × 3 3/8" H × 1/4" D (4 cm × 8.6 cm × 0.7 cm)
Weight	17 lb. (7.7 kg)
Shipping size	20" W × 15 1/2 " H × 24" D (50.8 cm × 39.4 cm × 61 cm)
Shipping weight	32 lb. (14.5 kg)

Extended control panel (ECP)

Size	6" W × 2 5/8" H × 2 1/4" D (15.2 cm × 6.6 cm × 5.8 cm)
Shipping size	9 3/8" W × 5" H × 10 3/8" D (23.8 cm × 12.8 cm × 26.4 cm)
Shipping weight	4 lb. 8 oz. (2.1 kg)

Standard features

System requirements
Windows® operating systems or Mac operating system software as detailed in the SMART Notebook™ software for Windows and Mac computers release notes (smarttech.com/kb/158853) or Linux® operating systems as detailed in the SMART Notebook software for Linux computers release notes (smarttech.com/kb/146487).

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

Environmental compliance
China EIP, EU WEEE, US CPSIA, Covered Electronics Devices, Packaging, Batteries and EU RoHS

Regulatory certification

Interactive whiteboard	CE, CSA (U.S./Canada), C-Tick, and VCCI
Projector	CB (TUV), CCC, CE, C-Tick, FCC, GOST-R, KC, NOM, PSB, PSE, TUV-GS, UL (U.S./Canada) and VCCI

Warranty
The projector and ECP have a three-year limited equipment warranty. The SMART UF75w 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 685i5 interactive whiteboard system are included in the ECP box. Don't use the installation instructions included in the interactive whiteboard box when installing the interactive whiteboard system. Additional documentation is available from smarttech.com/support.

Power consumption
287.5 W average 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.

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 resistant, 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.)
Wall-mount brackets	Includes two 32" (81.3 cm) wide brackets, ten screws and ten drywall anchors to support your wall-mounted interactive whiteboard
Computer connection	16' (5 m) USB cable
Power requirements	Obtains power from the projector through the ECP cable.
Theft prevention	The pen tray has a locking feature and a Kensington® security slot.

SMART UF75w projector features

System components	SMART UF75w projector, wall mount, ECP, remote control and all input cables necessary to connect the ECP to the projector
Image adjustment	The wall mount includes mechanical adjustments for aligning the projector image with the interactive whiteboard. The projector also has a focus lever and an on-screen menu for adjusting brightness, contrast and other image-related attributes.
Display type	WXGA 1280 × 800
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 2500 lumens (typical) at a CCT of 6500 K by the IEC method
Lamp life	2500 hours in Standard 230 W mode. 4000 hours in Economy 190 W mode
Aspect ratio	16:10 with support for 16:9, 4:3 and 5:4 ratios with scaling
Contrast ratio	2900:1

Video system compatibility

NTSC, NTSC 4:43, PAL, PAL-N, PAL-M and SECAM

Video interface compatibility

HDCP compliant HDMI, Composite, S-video, VESA® RGB with additional interface support for Component YPbPr and Component YCbCr inputs with the proper adapters (not included)

Video format compatibility

The projector has a native 16:10 aspect ratio WXGA resolution and 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)

Mounting hardware

Includes hardware for mounting the projector to framed and solid walls. Also includes a safety tether.

Input/output connections

Connector	Connects to
Power	Main power source
4-pin power mini-DIN 5V/2A output	ECP harness cable
7-pin mini-DIN	ECP harness cable
DB9 RS-232	Optional room control system
DB15F RGB video input (VGA 1)	Default primary computer (not included)
DB15F RGB video input (VGA 2)	Default secondary computer harness cable
3.5 mm phone jack audio input (×2)	Primary and secondary computer audio inputs
DB15F RGB video output (VGA Out)	Optional secondary display (not included)
3.5 mm phone jack audio output	External audio system (not included)
RCA composite video input (and left and right RCA audio input)	Video source (not included) through ECP harness cable
4-pin mini-DIN S-video input (and left and right RCA audio input)	Video source (not included)
RJ45	Network (for web page management and SNMP access)
USB B	Computer (for service access only)
HDMI input	High-definition video source (not included)

Projector noise

36 dBA at high speed and 31 dBA at standard speed, measured using the JIS method

Power requirements

100V–240V AC at 50 Hz–60 Hz

Power cable

Includes a 14' 9" (4.5 m) power cable

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

Remote control Provides an alternative method of controlling the projector and adjusting the projector settings

Theft protection The projector system features an optional padlocked ring to prevent theft. The Kensington® security slot can affix the system to a wall as a visual and physical theft deterrent.

ECP features

Input/output connections

Connector	Connects to
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)

Volume control Controls volume

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 (default primary computer)
- VGA 2 (default secondary computer)
- Composite
- S-video
- HDMI

Storage and operating specifications

Storage

- Maximum storage temperature: 122°F (50°C) with up to 80% humidity, non-condensing
- Minimum storage temperature: -4°F (-20°C) with up to 80% humidity, non-condensing

Operation

- At standard fan speed: 41°F to 95°F (5°C to 35°C) from 0' to 6000' (0 m to 1800 m)
- At high fan speed: 41°F to 95°F (5°C to 35°C) from 6000' to 6800' (1800 m to 2100 m)
- In Service mode: 41°F to 95°F (5°C to 35°C) from 6800' to 9800' (2100 m to 3000 m)

SMART order numbers

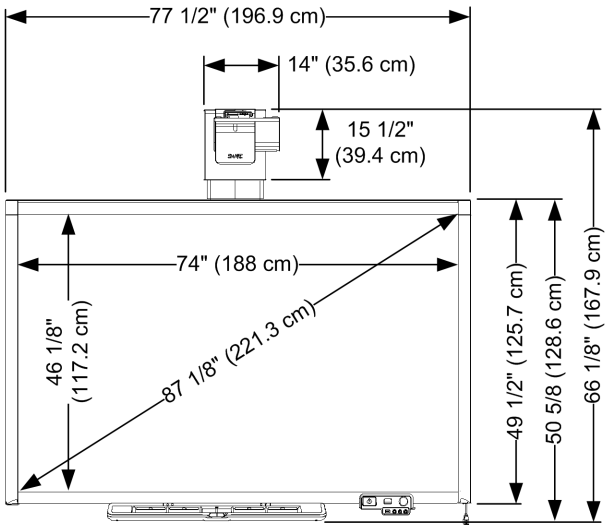
SB685i5	SMART Board 685 interactive whiteboard with a SMART UF75w projector
20-01501-20	Lamp module replacement kit for SMART UF75 and SMART UF75w projectors

Optional accessories

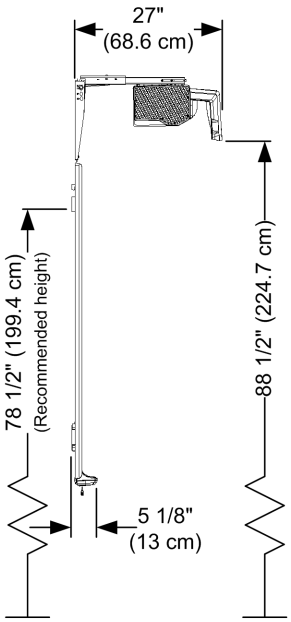
RPEN	Replacement set of four pen tray pens (black, red, green and blue)
RPEN-ER	Replacement set of four pen tray pens (black, red, green and blue) and a rectangular eraser
SBA-L	Projection Audio System for SMART Board 600 and 800 series interactive whiteboard systems
USB-XT	USB extender cable

Physical dimensions

Front view

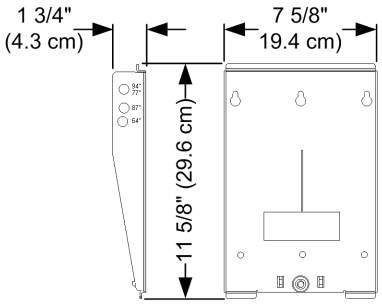


Left side view



Projector mounting bracket

Side view Front view



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