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Specifications

SMART Board® 6086S interactive display with iQ

Model SBID-6286S

Overview



The SMART Board® 6086S interactive display with iQ and SMART Learning Suite is the hub of your classroom.

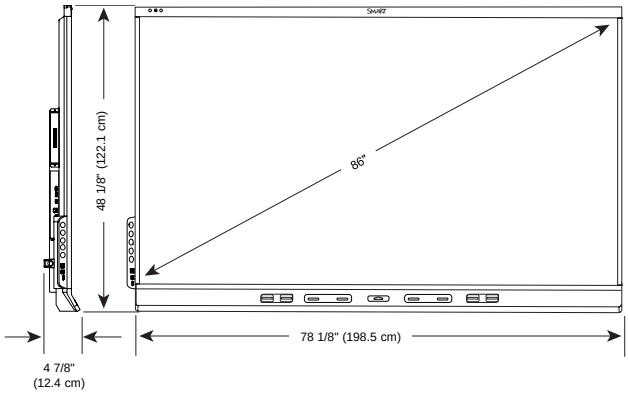
The 4K Ultra HD LED interactive display provides optimal image clarity and wide viewing angles. SMART's exclusive and proprietary ToolSense™ technology allows a wide range of accessories to cater to different subject matter, learning styles, and student needs. Unique Simultaneous Tool Differentiation allows multiple users to write simultaneously with a pen, move objects with a finger, and erase digital ink with a palm—all without switching tools, providing uninterrupted collaboration. The display's advanced HyPr Touch™ with InGlass™ touch technology provides a natural, intuitive writing and touch experience with high accuracy and low latency.

Temperature and humidity sensors help administrators provide the optimal environmental conditions for effective learning. The display's iQ embedded computing experience offers one-touch access to collaboration tools, including a digital whiteboard, a web browser, and wireless screen sharing.

See smarttech.com for more information.

Dimensions and weights[1]

Dimensions



Weight

192 lb. (87 kg)

Shipping dimensions (including pallet)[2]

86" × 57" × 10 3/8"
(218.6 cm × 144.7 cm × 26.4 cm)

Shipping weight

261 lb. (118.5 kg)

As an ENERGY STAR® certified signage display, the SMART Board 6086S interactive display meets strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and Department of Energy.

[1]All dimensions ± 1/8" (0.3 cm). All weights ± 2 lb. (0.9 kg).

[2]Product ships upright

Highlights

HyPr Touch with InGlass	HyPr Touch with InGlass advanced optical technology ensures highly accurate writing and drawing
ToolSense	ToolSense proprietary tool technology supports virtually unlimited pen and tool recognition
Environmental sensors	Integrated temperature and humidity sensors provide real-time measurement of the display's environmental conditions. Data is available via an included SMART app.
Ambient light sensor	Screen automatically dims or brightens, ensuring comfortable viewing in all lighting conditions

Hardware

Interaction

Touch technology	HyPr Touch with InGlass
Multitouch capabilities	Up to 20 simultaneous interaction points[3]
Object Awareness™	Behavior adjusts automatically to the tool or object you're using, whether it's a pen, finger, eraser, or palm
Simultaneous Tool Differentiation	Multiple users can touch the display and use pens and erasers at the same time for a natural, fully collaborative experience
Pen ID™	Multiple users can write independently and simultaneously, using different colored ink
ToolSense	Support for virtually unlimited pen and tool recognition
Silktouch™	Ultra-smooth finish that allows you to use the display for hours without finger burn

Display

Type	LCD with LED back light
Aspect ratio	16:9
Optimal resolution (HDMI inputs)	4K UHD (3840 × 2160) at 60 Hz
Brightness (maximum)	350 cd/m^2
Pixel dimensions	0.429 mm × 0.429 mm
Viewing angle	178°
Response time	8 ms
Ambient light sensor	Yes
Proximity sensor	Yes
Infrared sensor	Yes

[3]Chrome OS™ is limited to 10 simultaneous touches, including gestures. Automatic pen recognition, plus palm, pen, and eraser differentiation are available in supported applications.

Room temperature and humidity sensors	Yes
100BASE-T Ethernet	Two external ports for a 4-port Fast Ethernet switched network that connects the interactive display to a network and an external device, such as a computer
Wi-Fi	IEEE 802.11A/B/G/N/Ac with 2 × 2 MIMO (both 2.4 and 5 GHz bands) supporting WEP, WPA, WPA2 PSK and 802.1X EAP authentication protocols
Bluetooth®	Bluetooth 4.2 dual mode (backwards compatible with Bluetooth 2.1 + EDR)
Audio	Two 20 W integrated front-facing speakers
Noise level	<32 dBA
Included cables and accessories	1 Country-specific power cable 1 USB cable 2 Pens (red and black) 2 Eraser 1 Remote control 2 AAA batteries for the remote control 1 WM-SBID-200 wall mount
Mounting holes	For a standard VESA 600 mm × 400 mm mounting plate Lower mounting holes 11" (28 cm) from the bottom of the interactive display
Mounting bracket depth	Minimum depth of 1 1/2" (3.7 cm) for all components on the back of the interactive display for airflow
Accessory holes	M4 mounting points located at the top, bottom, left, and right for SMART approved accessories

iQ technology

iQ experience	iQ experience embedded in the display provides better performance without the need to install a separate appliance
Included apps and features	Customizable Home screen Whiteboard SMART Notebook Player Browser Screen Share File and app libraries Writing and drawing over any input Freeze screen and screen shade Automatic software updates

Supported languages

Chinese (simplified)
Chinese (traditional)
Czech
Danish
Dutch
English
Estonian
Finnish
French
German
Greek
Hungarian
Italian
Japanese
Korean
Latvian
Lithuanian
Norwegian
Polish
Portuguese
Romanian
Russian
Slovak
Slovenian
Spanish
Swedish
Ukrainian
Vietnamese
Welsh

Software

Included software

iQ Android-based embedded computing
SMART Ink® and SMART Product Drivers
SMART Notebook® basic version
Bonus one-year subscription to SMART Learning Suite (including SMART Notebook software)
Subscription to SMART Remote Management for the length of warranty

Connectors

Convenience panel

1	HDMI® 2.0 in with HDCP 1.4 and HDCP 2.2 support
2	USB 3.0 Type-A (for media)
1	USB 3.0 Type-B (for touch)

Connector panel

1	Accessory slot (for OPS devices)
1	USB 3.0 Type-A (for media)
1	USB 2.0 Type-A (for service use only)
3	USB 3.0 Type-B (for touch)
2	HDMI 2.0 in with HDCP 1.4 and HDCP 2.2 support
1	HDMI 2.0 out
1	VGA in
1	Stereo 3.5 mm in
1	Stereo 3.5 mm out
1	S/PDIF out
2	RJ45
1	RS-232 in
1	RS-232 out

Back of display

1	AC power in
1	AC power out

Installation requirements

Interactive display	See the *SMART Board 6000S and 6000S Pro series interactive displays installation and maintenance guide* (smarttech.com/kb/171414) **IMPORTANT** The display needs an internet connection for downloading and installing important updates. Ask the network administrator to configure the network correctly for the iQ experience. For more information about network configuration, see Connecting a SMART display with the iQ experience to a network.
Room computers and guest laptops	
General requirements	See SMART Notebook software release notes
4K UHD	Video card that can support 3840 × 2160 resolution at 60 Hz See Minimum requirements for Ultra High Definition or 4K on your interactive flat panel
Mini-computers	
General requirements	See SMART Notebook software release notes
Dimensions	Smaller than 4 3/4" × 4 3/4" × 1 1/4" (12 cm × 12 cm × 3.3 cm)
Weight	Less than 10 lb. (4.5 kg)
Mounting	VESA 75 mm × 75 mm or 100 mm × 100 mm mounting pattern (two mounting points: left and right)

Cable requirements

HDMI	Maximum length: 23' (7 m) **NOTES** • A certified Premium High Speed HDMI Cable is required for a display resolution of 3840 × 2160 at more than 30 Hz (such as 50 or 60 Hz). • The performance of cables longer than 23' (7 m) is highly dependent on the cable's quality.
USB 2.0	USB 2.0 certified Hi-Speed (480 Mbps) support Maximum length: 16' (5 m)
USB 3.0	USB 3.0 certified SuperSpeed (5 Gbps) support Maximum length: 9' (3 m) **NOTES** • SMART supports only installations that use directly connected video and USB cables, AC-powered extenders, or USB extenders purchased from SMART. • You might be able to use higher-grade cables that are longer than specified. If you have problems with such a cable or an extender of any type, test the connection with a shorter cable before contacting SMART Support.

Important	Using cables that exceed these maximum lengths can produce unexpected results, such as degraded picture quality or USB connectivity. Refer to *Installation best practices for SMART products* (smarttech.com/kb/171035) for comprehensive information about cables and extensions for SMART hardware products.

Storage and operating requirements

Power requirements	100V to 240V AC, 50 Hz to 60 Hz
Power consumption at 77°F (25°C)	
Standby mode	<0.5 W
Normal operating	172 W
Operating temperature	41–95°F (5–35°C)
Storage temperature	-4–140°F (-20–60°C)
Humidity	5–80% relative humidity, non-condensing

Regulatory Certifications (Model ID: IDS686-1)

U.S. / Canada	FCC, ISED, UL, CONEG Packaging, California Prop 65, Conflict Minerals
EU / EEA / EFTA	CE, RoHS Directive, Battery Directive, Packaging Directive, WEEE Directive, REACH Regulation, POP Regulation, Radio Equipment Directive, Low Voltage Directive, CB
EAEU	EAC
Australia / New Zealand	RCM

Purchasing information

Order number	
SBID-6286S	SMART Board 6086S interactive display with iQ and SMART Learning Suite
Optional accessories	
TS-4PEN-MC	ToolSense multicolor 4-pen bundle (orange, purple, green, blue) with magnetic penwell
Other	See smarttech.com/accessories

Warranty information

SMART Assure warranty	Includes advanced hardware replacement and access to onsite support. Terms and conditions vary by region. Contact your local reseller or distributor for information and visit smarttech.com/warranty.

smarttech.com/support
smarttech.com/contactsupport

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