Specifications

SMART Board® 7086 Pro interactive display with iQ
Model SBID-7286P

Overview

The SMART Board® 7086 Pro interactive display with iQ is the hub of your meeting room. PC-free embedded computing provides one-touch access to collaborative tools, including a whiteboard, wireless screen sharing and a web browser. With minimal network integration, there’s no need for wires, cables or manual software and firmware updates.

The 86" 4K ultra-high-definition LED display provides optimal image clarity and wide viewing angles. With the Pen ID™ feature, you can assign different appearances to the four pens and write or draw over any application in digital ink.

Object Awareness™ allows you to perform mouse functions with your finger, write in digital ink with the pen, and erase with your palm or eraser—all without switching tools or modes. You can use a variety of gestures in applications, and four users can write or draw at the same time.

See smarttech.com for more information.

Dimensions and weights

Weight
205 lb. (91 kg)

Shipping dimensions (including pallet)
86 1/2" × 60" × 14"
(220 cm × 163 cm × 35.5 cm)

Shipping weight
258 lb. (117 kg)

Dimensions

As an ENERGY STAR® certified signage display, the SMART Board 7086 Pro interactive display meets strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and Department of Energy.

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

### Interaction

<table>
<thead>
<tr>
<th>Touch technology</th>
<th>HyPr Touch™ (Hybrid Precision Touch) proprietary hybrid system, which greatly improves upon its InGlass™ core by optimizing both touch and pen performance, resulting in virtually no lag and zero contact detect height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multitouch capabilities</td>
<td>Up to 16 simultaneous interaction points (combination of 10 finger touch points, four pen touch points and two eraser touch points)²</td>
</tr>
<tr>
<td>Object Awareness</td>
<td>Behavior adjusts automatically to the tool or object you’re using, whether it’s a pen, finger, eraser, or palm.</td>
</tr>
<tr>
<td>Pen ID</td>
<td>Four people can write independently and simultaneously, using different colored ink.</td>
</tr>
</tbody>
</table>

### Display

<table>
<thead>
<tr>
<th>Type</th>
<th>LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Optimal resolution (*&quot;HDMI 1&quot; input)</td>
<td>4K UHD (3840 × 2160) at 60 Hz</td>
</tr>
<tr>
<td>Horizontal frequency (typical)</td>
<td>135 kHz</td>
</tr>
<tr>
<td>Vertical frequency (typical)</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Contrast ratio (typical)</td>
<td>5000:1</td>
</tr>
<tr>
<td>Brightness (maximum)</td>
<td>360 cd/m²</td>
</tr>
<tr>
<td>Pixel dimensions</td>
<td>0.429 mm × 0.429 mm</td>
</tr>
<tr>
<td>Gamut</td>
<td>72% of NTSC</td>
</tr>
<tr>
<td>Viewing angle</td>
<td>178°</td>
</tr>
<tr>
<td>Response time (typical)</td>
<td>8 ms</td>
</tr>
</tbody>
</table>

### 100BASE-T Ethernet

Two external ports for a four-port Fast Ethernet switched network connecting the interactive display and the iQ appliance to an external network and an external device, such as a computer.

### Presence detection

Dual sensors that reduce startup time and power consumption during inactivity.

### Audio

10 W integrated speakers (×2)

### Noise level

<30 dBA

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²Only up to 10 touch points and no pen or eraser support on Chrome OS™ operating system
### Included cables and accessories
- iQ appliance
- Country-specific power cable
- USB cable
- Pen (×4)
- Eraser

### iQ appliance
- **Wi-Fi**: IEEE 802.11A/B/G/N/Ac with 2 × 2 MIMO (both 2.4 and 5 GHz bands)
- **Bluetooth®**: Bluetooth 4.0 dual mode (backwards compatible with Bluetooth 2.1 + EDR)
- **Capture options**: Establish a Bluetooth wireless connection with a supported mobile device (see below) by scanning the interactive display’s unique QR code

### Supported languages
- Dutch
- English
- French
- German
- Italian
- Korean
- Norwegian
- Russian
- Simplified Chinese
- Spanish
- Swedish
- Traditional Chinese
- Vietnamese

### Mounting holes
- For a standard VESA 600 mm × 400 mm mounting plate
- Lower mounting holes 17 1/8" (43.4 cm) from the bottom of the interactive display

### Mounting bracket depth
Minimum depth of 2" (5.1 cm) for all components on the back of the interactive display for airflow
Connectors

**Connector panel**
- OPS slot (for the iQ appliance)
- Stereo 3.5 mm out
- S/PDIF out
- "VGA" input connectors
  - Video: VGA in (1080p)
  - Audio: Stereo 3.5 mm in
  - Touch: USB Type-B
- "HDMI 1" input connectors
  - Video/audio: HDMI 2.0 in (4K UHD at 60 Hz)
  - Touch: USB Type-B
- "Display Port" input connectors
  - Video/audio: in (4K UHD at 30 Hz)
  - Touch: USB Type-B
- USB Type-A³
- RJ45 (×2)

**Convenience panel**
- "HDMI 2" input connectors
  - Video/audio: HDMI 1.4 in (4K UHD at 30 Hz)
  - Touch: USB Type-B
- USB Type-A (×2)

**Bottom**
- AC power in
- AC power out
- RS-232 in
- RS-232 out

**HDCP support**
- Version 1.4/2.2

Installation requirements

**Interactive display**
See the SMART Board 7000 and 7000 Pro series interactive displays installation and maintenance guide (smarttech.com/kb/171164)

**IMPORTANT**
The display needs an internet connection for downloading and installing important updates. Ask the network administrator to confirm that the network has been correctly configured for the iQ experience. For more information about network configuration, see Connecting a SMART display with the iQ experience to a network.

**SMART kapp® app**

**Apple devices**
- iOS 9 or later operating system software
- 50 MB of storage
- iPhone 4S or later
- Third-generation iPad or later
- First-generation iPad mini or later
- Fifth-generation iPod touch or later

³For service use only
### Android™ devices
- Android 4.4.4 (KitKat) or later operating system
- 50 MB of storage (internal or SD card)
- 1024 MB of RAM
- 720p or better screen resolution
- Bluetooth 2.1 + EDR
- 3 megapixel or better rear-facing camera (recommended)

### SMART kapp viewer
**Mobile**
- Safari for iOS 9 or later operating system software
- Chrome™ for Android 39.0.2171.93 or later

**Desktop**
- Internet Explorer® 10 or later
- Chrome 39.0.2171.95 or later
- Firefox® 34.0.5 or later
- Safari 8.0 or later

### Room computers and guest laptops
**General requirements**
- See SMART Meeting Pro software release notes

**4K UHD**
- Video card that can support 3840 x 2160 resolution at 60 Hz and that has 1 GB DDR memory
- See Minimum requirements for Ultra High Definition or 4K on your interactive flat panel

### Mini-computers
**General requirements**
- See SMART Meeting Pro software release notes

**Dimensions**
- Smaller than 10" x 10" x 2" (25.4 cm x 25.4 cm x 5.1 cm)

**Weight**
- Less than 10 lb. (4.5 kg)

**Mounting**
- VESA 75 mm x 75 mm or 100 mm x 100 mm mounting pattern

### Cable requirements

#### HDMI
- Maximum length: 23' (7 m)

**NOTES**
- Use only certified HDMI cables that have been tested to support the performance standard you require.
- The performance of cables longer than 23' (7 m) is highly dependent on the cable’s quality.

#### Display Port
- Display Port 1.2 compliant or better
- Maximum length: 23' (7 m)

#### USB 2.0
- USB 2.0 certified
- Hi-Speed (480 Mbps) support
- Maximum length: 16' (5 m)

**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

<table>
<thead>
<tr>
<th>Power requirements</th>
<th>100V to 240V AC, 50 Hz to 60 Hz</th>
</tr>
</thead>
</table>

**Interactive display and iQ appliance power consumption at 77°F (25°C)**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standby mode</td>
<td>&lt;8 W</td>
</tr>
<tr>
<td>Normal operating</td>
<td>165 W</td>
</tr>
</tbody>
</table>

**Standalone interactive display power consumption at 77°F (25°C)**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standby mode</td>
<td>&lt;2 W</td>
</tr>
<tr>
<td>Normal operating</td>
<td>159 W</td>
</tr>
</tbody>
</table>

**Operating temperature**

41–95°F (5–35°C)

**Storage temperature**

-4–140°F (-20–60°C)

**Humidity**

5–80% relative humidity, non-condensing

Certification and compliance

**Regulatory certification**

EU RED and LV Directives, ISED, cUL, FCC, UL, RCM, CITIC, TRA

**Environmental compliance**

**European Union**

REACH, RoHS, WEEE, Battery and Packaging

**U.S.**

CONEG Packaging, California Prop 65

Purchasing information

**Order number**

<table>
<thead>
<tr>
<th>SBID-7286P</th>
<th>Black-framed SMART Board 7086 Pro interactive display with iQ, one SMART Meeting Pro software room license and 10 SMART Meeting Pro software personal licenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBID-7286P-W</td>
<td>White-framed SMART Board 7086 Pro interactive display with iQ, one SMART Meeting Pro software room license and 10 SMART Meeting Pro software personal licenses</td>
</tr>
</tbody>
</table>

**Optional accessories**

See smarttech.com/accessories

**Warranty**

Three-year limited equipment warranty

**Extended warranty**

<table>
<thead>
<tr>
<th>EWY1-SBID-7286P</th>
<th>One-year warranty extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWY2-SBID-7286P</td>
<td>Two-year warranty extension</td>
</tr>
</tbody>
</table>