Specifications
SMART Board® MX275 interactive display with iQ
Model SBID-MX275

Overview
The SMART Board® MX series has all the essentials educators need for bringing the devices students love into any learning environment. This display is great value for schools that need an interactive display on a budget. The 75" 4K Ultra HD resolution display includes SMART Learning Suite and a standard three-year warranty.

The embedded iQ appliance offers one-touch access to SMART Learning Suite applications, including SMART Notebook® lessons and SMART lab™ activities. You can also access collaboration tools, including a digital whiteboard, a web browser, and wireless screen sharing.

Dimensions and weights

Dimensions

Weight
133 lb. (60 kg)

Active touch area
66 1/2" × 38" (168.8 cm × 96.6 cm)

Active image area
65" × 36 1/2" × 165 cm × 92.8 cm

Shipping dimensions (including pallet)
75" W × 50 1/4" H × 11 5/8" D
(190.5 cm × 127.7 cm × 29.5 cm)

Shipping weight
192 lb. (87 kg)

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

### Interaction

<table>
<thead>
<tr>
<th>Touch technology</th>
<th>IR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multitouch capabilities</td>
<td>Up to 10 simultaneous touch, writing, or erase points&lt;sup&gt;2,3&lt;/sup&gt;</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 or palm.</td>
</tr>
</tbody>
</table>

### Display

<table>
<thead>
<tr>
<th>Type</th>
<th>LED backlit LCD (A grade)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Resolution</td>
<td>4K UHD</td>
</tr>
<tr>
<td>Positioning accuracy</td>
<td>&lt;2 mm</td>
</tr>
<tr>
<td>Horizontal frequency (minimum)</td>
<td>31 Hz</td>
</tr>
<tr>
<td>Horizontal frequency (maximum)</td>
<td>140 kHz</td>
</tr>
<tr>
<td>Vertical frequency (minimum)</td>
<td>59 Hz</td>
</tr>
<tr>
<td>Vertical frequency (maximum)</td>
<td>70 Hz</td>
</tr>
<tr>
<td>Contrast ratio (typical)</td>
<td>1600:1</td>
</tr>
<tr>
<td>Brightness (maximum)</td>
<td>≥350 cd/m²</td>
</tr>
<tr>
<td>Refresh frequency</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Pixel clock (maximum)</td>
<td>600 MHz</td>
</tr>
<tr>
<td>Pixel dimensions</td>
<td>0.43 mm</td>
</tr>
<tr>
<td>Viewing angle</td>
<td>178°</td>
</tr>
<tr>
<td>Response time (typical)</td>
<td>8 ms</td>
</tr>
<tr>
<td>Ambient light sensor</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Audio

<table>
<thead>
<tr>
<th>Audio</th>
<th>10 W integrated speakers (&lt;2)</th>
</tr>
</thead>
</table>

### Wireless

<table>
<thead>
<tr>
<th>Wireless</th>
<th>802.11 Wi-Fi a/b/g/n/ac 2.4GHz and 5GHz</th>
</tr>
</thead>
</table>

<sup>2</sup>Requires SMART Product Drivers to be installed. Some applications might not support all touch points.

<sup>3</sup>Chrome OS is limited to 10 simultaneous touches. Pens and eraser are not supported.
### Included cables and accessories

- iQ appliance
- Country-specific power cable
- 16' 5" (5 m) USB cable
- Wall mount bracket kit
- Pen (×2)
- Antennas (×2)
- IR remote control

### iQ appliance

<table>
<thead>
<tr>
<th>Wireless technology</th>
<th>Bluetooth® dual mode (backwards compatible with Bluetooth 4.1 + EDR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capture options</td>
<td>Establish a Bluetooth connection with a supported mobile device (see below) by scanning the interactive display’s unique QR code</td>
</tr>
</tbody>
</table>

### Supported languages

- Dutch
- English
- French
- German
- Italian
- Korean
- Norwegian
- Russian
- Simplified Chinese
- Spanish
- Swedish
- Traditional Chinese
- Ukrainian
- Vietnamese

### Mounting holes

For a standard VESA® 600 mm × 400 mm mounting plate with M8 screws

**NOTE**

A wall mount is included with the display.

### Mounting bracket depth

Minimum clearance depth of 1 1/4" (3 cm) for all components on the back of the interactive display for airflow
Connectors

<table>
<thead>
<tr>
<th>Back Connector panel:</th>
<th>IQ appliance (AM40):</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI® in (with HDCP 2.2 support) (×2)</td>
<td>USB 3.0 Type-A (×2)</td>
</tr>
<tr>
<td>VGA in RJ45 (×2)</td>
<td>HDMI 1.4 (HDCP-compliant)</td>
</tr>
<tr>
<td>USB Type-B (for touch applications) (×1)</td>
<td></td>
</tr>
<tr>
<td>USB 2.0 Type-A (×2)</td>
<td></td>
</tr>
<tr>
<td>HDMI 1.4 out (HDCP-compliant)⁴</td>
<td></td>
</tr>
<tr>
<td>S/PDIF out (optical)</td>
<td></td>
</tr>
<tr>
<td>Stereo 3.5 mm in (for VGA in)</td>
<td></td>
</tr>
<tr>
<td>Stereo 3.5 mm out</td>
<td></td>
</tr>
<tr>
<td>OPS slot</td>
<td></td>
</tr>
<tr>
<td>RS-232 control</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Front</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI in (with HDCP 1.4 support)</td>
<td></td>
</tr>
<tr>
<td>USB Type-B (for touch applications)</td>
<td></td>
</tr>
<tr>
<td>USB Type-A (×2)</td>
<td></td>
</tr>
</tbody>
</table>

Applications

**Interactive display**
- Apps included in the iQ appliance
- One-year subscription to SMART Learning Suite

Installation requirements

**Interactive display**
- See the SMART Board MX series interactive displays installation and maintenance guide (smarttech.com/kb/171257)

**SMART Notebook® Player mobile app**
- iOS 10 or later operating system software

**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

- 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)

⁴HDCP is always enabled. Content is shown in 480p resolution if the external display doesn’t support HDCP.
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 the SMART Notebook software release notes

4K UHD
- Graphics card that supports 3840 × 2160 resolution at 30 Hz and that has 1 GB DDR 5 memory
  - See Minimum requirements for Ultra High Definition or 4K on your interactive flat panel

Mini-computers

General requirements
- See the SMART Notebook software release notes

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.

USB
- Maximum length: 16’ (5 m)

Important
- Using cables that are longer than these maximum lengths can produce unexpected results, such as degraded picture quality or USB connectivity. Refer to SMART installation standards (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

Interactive flat panel 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>6.5 W</td>
</tr>
<tr>
<td>Normal operating</td>
<td>244 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>≤0.3 W</td>
</tr>
</tbody>
</table>
Normal operating (out-of-box) 238 W

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 (Model ID: IDX75-1) UL (U.S./Canada), FCC, IC, CE, EAC, RCM, NRCS, SABS, CITC, TRA, CCC

Environmental compliance

European Union REACH, RoHS, Battery, WEEE and Packaging

U.S. CONEG Packaging, California Proposition 65 and Conflict Minerals

Purchasing information

Order number

SBID-MX275 SMART Board MX075 interactive display with iQ and one-year subscription of SMART Learning Suite

Optional accessories

Other See smarttech.com/accessories

Warranty

North America and rest of world (except UK) Three-year limited equipment warranty

UK Five-year limited equipment warranty

Extended warranty

EWY1-SBID-MX275 SBID-MX275 interactive display with iQ one-year warranty extension

EWY2-SBID-MX275 SBID-MX275 interactive display with iQ two-year warranty extension