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

![Diagram of the SMART Board® MX275 interactive display with iQ](image)

- **Dimensions**
  - 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)

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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 20 simultaneous touch, writing, or erase points[^2]^[^3]</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

| 10 W integrated speakers (×2) |

### Wireless

| 802.11 Wi-Fi a/b/g/n/ac 2.4GHz and 5GHz |

[^2]: Requires SMART Product Drivers to be installed. Some applications might not support all touch points.
[^3]: 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
- **Wireless technology**: Bluetooth® dual mode (backwards compatible with Bluetooth 4.2 + EDR)
- **Capture options**: Establish a Bluetooth connection with a supported mobile device (see below) by scanning the interactive display's unique QR code

### Supported languages
- Danish
- Dutch
- English
- Finnish
- French
- German
- Italian
- Korean
- Norwegian
- Portuguese
- 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</th>
<th>Connector panel:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HDMI® in (with HDCP 2.2 support) (×2)</td>
</tr>
<tr>
<td></td>
<td>VGA in</td>
</tr>
<tr>
<td></td>
<td>RJ45 (×2)</td>
</tr>
<tr>
<td></td>
<td>USB Type-B (for touch applications) (×1)</td>
</tr>
<tr>
<td></td>
<td>USB 2.0 Type-A (×2)</td>
</tr>
<tr>
<td></td>
<td>HDMI 1.4 out (HDCP-compliant)^4</td>
</tr>
<tr>
<td></td>
<td>S/PDIF out (optical)</td>
</tr>
<tr>
<td></td>
<td>Stereo 3.5 mm in (for VGA in)</td>
</tr>
<tr>
<td></td>
<td>Stereo 3.5 mm out</td>
</tr>
<tr>
<td></td>
<td>OPS slot</td>
</tr>
<tr>
<td></td>
<td>RS-232 control</td>
</tr>
</tbody>
</table>

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

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^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