Samsung The Wall All-In-One IAB 110 2K IAB Series LED display unit (LH012IABMHS/EN)

Samsung The Wall All-In-One IAB 110 2K - IAB Series LED display unit - digital signage - Tizen OS - 1920 x 1080 110" - Flip-chip RGB LED - HDR



Innovation is never static. To strive for perfection requires a constant pursuit of greatness. To inspire and captivate with unrivaled experiences. The Wall is the epitome of innovation. It constantly delivers new avenues to create unparalleled visual statements. Redefining the LED paradigm once again, The Wall now solves the biggest industry challenge, drastically improving installation. The Wall, let it transform your business.

Key Selling Points

Deeper black color and contrast
Vivid, vibrant color purity
AI optimized visuals
Accurate color mapping and grayscale expression
Advanced picture refinement and dynamic range
Smooth, judder-free visuals
Installation within 2 hours for 2 people
Auto configuration setup

Product Features

Black Seal technology
A deep black background blankets the screen with accurate uniformity, creating a seamless canvas for purer black levels with enhanced depth that delivers unparalleled contrast and immaculate detail.

Ultra Chroma technology
Colors leap to life with spectacular vibrancy to recreate scenes as if you were there in real life. Narrower wavelengths produce RGB colors two times purer and more accurate than conventional LEDs.

Built-in control box
Time-consuming configuration between control box and cabinet is no longer needed. The Wall All-In-One integrates the control box so it's built-into the display, eliminating a cumbersome configuration process to get the display up and running faster.

No extra peripherals needed
The Wall All-In-One includes everything you need to begin using the display - from the control box and wall brackets to speakers and deco bezels. No additional purchases or components are required, allowing you to focus on getting your display up and running fast.

20bit processing
The Wall All-In-One offers 20bit processing to present accurate color mapping with faultless accuracy. Deeper bit depth at low grayscale also delivers extraordinary contrast ratio and smooth, natural tones.

Linear grayscale
A precise linear grayscale showcases intricacies in every scene, delivering textures, volume, and continuous shadow details. The elevated continuity pulls you further into your content for unbroken immersion.

Instant AI optimization
Every second of content is instantly analyzed and optimized for perfect picture quality. The powerful AI processor delivers superior visuals, enhancing contrast and removing noise.

Dazzling dynamic range
Reimagine the limits of conventional screens with advanced picture refinement - HDR10/10+ and LED HDR - to illuminate ideal peak brightness and contrast in every scene for precise, true-to-life imagery.

Smooth, seamless motion
Every motion becomes sharper, with greater clarity. The Wall All-In-One automatically converts standard 60Hz signals to 120Hz, removing motion judder in fast-paced action for smoother streams and a seamless viewing experience, every time.

Main specifications

Product Description	*Samsung The Wall All-In-One IAB 110 2K IAB Series LED display unit - for digital signage*
Product Type	*LED display unit*
Diagonal Size	*110"*
Commercial Use	*Yes - digital signage*
Platform	*Tizen OS*
Video Wall Resolution	*1920 x 1080*

HDR Format	*HDR10, HDR10+*
HDR Technology	*LED HDR, Micro HDR*
Frame Rate & Enhancement Technology	*60 Hz Refresh Rate, 100 Hz Refresh Rate, 50 Hz Refresh Rate, 120 Hz Refresh Rate, 3840 Hz Refresh Rate, Micro Motion*
Video Interface	*HDMI*
HDMI Ports Qty	*3 ports*
Connectivity	*Wi-Fi, Bluetooth*
PC Interface	*DisplayPort*
TV Tuner	*No tuner*
Commercial Features	*Auto Source Switching & Recovery*
Picture Enhancements	*Dynamic Peaking Technology, AI Picture, Black Seal Technology, Ultra Chroma Technology*
Video Wall Display Unit	*Flip-chip RGB LED*
USB	*2 ports*
Included Accessories	*Decorative frame, spare parts kit, frame kit*
Voltage	*AC 100-240 V (50/60 Hz)*
Dimensions (WxDxH) - display unit	*242.31 cm x 4.95 cm x 136.44 cm*
Weight	*99 kg*
Manufacturer Warranty	*3-year warranty*

Extended specification

General

Product Type	*LED display unit*
Commercial Use	*Yes - digital signage*
Series	*IAB Series*
Platform	*Tizen OS*
Operating System	*Tizen OS 6.5*
HDR Capable	*Yes*
HDR Format	*HDR10, HDR10+*
HDR Technology	*LED HDR, Micro HDR*
Video Processor	*Neural Quantum 4K*
TV Tuner	*No tuner*
TV Tuner Presence	*No*
Sensors	*Eco Sensor, temperature sensor*
Video Interface	*HDMI*
HDMI Ports Qty	*3 ports*
PC Interface	*DisplayPort*
Modes	*DICOM Simulation Mode*
Picture Enhancements	*Dynamic Peaking Technology, AI Picture, Black Seal Technology, Ultra Chroma Technology*
Dimensions	*Display unit*
Width	*242.31 cm*
Depth	*4.95 cm*
Height	*136.44 cm*
Weight	*99 kg*

Manufacturer Warranty

Service & Support	*Limited warranty - 3 years*

Miscellaneous

Included Accessories	*Decorative frame, spare parts kit, frame kit*
Compliant Standards	*EMC Class A, IP20, Safety 60950-1, Safety 62368-1, TUV low blue light*

Power

Power Device	*Power supply*
Input Voltage	*AC 100-240 V (50/60 Hz)*
Video Wall Display Unit Power Consumption (Max)	*900 W*
Video Wall Display Unit Power Consumption (Typical)	*650 W*
Heat Generation Details	*Cabinet - max - 3071 BTU ¦ Cabinet - typical - 2218 BTU*

Environmental Parameters

Min Operating Temperature	*0 °C*
Max Operating Temperature	*40 °C*
Humidity Range Operating	*10 - 80% RH*

Display

Frame Rate & Enhancement Technology	*60 Hz Refresh Rate, 100 Hz Refresh Rate, 50 Hz Refresh Rate, 120 Hz Refresh Rate, 3840 Hz Refresh Rate, Micro Motion*
Colour Temperature	*2800 - 10000K*
Image Contrast Ratio	*24000:1*
Brightness	*1600 cd/m²*
Viewing Angle	*170 degrees*
Viewing Angle (Vertical)	*155 degrees*
Commercial Features	*Auto Source Switching & Recovery*
Features	*MagicInfo, 16-bit support, 20-bit processing*

Connections

Connector Type	*DisplayPort ¦ 3 x HDMI ¦ 2 x USB ¦ Audio line-out*

Dimensions & Weight (Shipping)

Width (Shipping)	*284.7 cm*
Depth (Shipping)	*39.8 cm*
Height (Shipping)	*158.2 cm*
Weight (Shipping)	*154 kg*

Network & Internet Multimedia

Connectivity	*Wi-Fi, Bluetooth*
Connect & Share	*Samsung Smart View+*

Media Player

USB Port	*Yes*
USB Ports Qty	*2*

Video Wall Display Unit

Pixel Pitch	*1.26 mm*
Pixel Configuration	*1 red, 1 green, 1 blue*
LED Type	*Flip-chip RGB LED*
LED Lifetime	*150000 hours*

Maintenance	*Front*
Modules Configuration (Per Cabinet)	*12x9*

Video Wall

Resolution	*1920 x 1080*
Diagonal Size	*110"*

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet