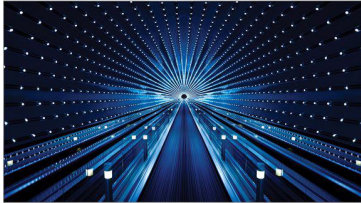


Samsung The Wall All-In-One IAB 146 2K IAB Series LED video wall (LH016IABMHS/EN)

Samsung The Wall All-In-One IAB 146 2K - IAB Series LED video wall - digital signage - Tizen OS - 1920 x 1080 146"
- 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 146 2K IAB Series LED video wall - for digital signage
Product Type	LED video wall
Diagonal Size	146"
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, 7680 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	322.56 cm x 4.95 cm x 181.44 cm
Weight	168 kg
Manufacturer Warranty	3-year warranty

Extended specification

General

Product Type	LED video wall
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	322.56 cm
Depth	4.95 cm
Height	181.44 cm
Weight	168 kg

Manufacturer Warranty

Service & Support	Limited warranty - 3 years
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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)	1240 W
Video Wall Display Unit Power Consumption (Typical)	860 W
Heat Generation Details	Cabinet - max - 4231 BTU Cabinet - typical - 2934 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, 7680 Hz Refresh Rate, Micro Motion
Colour Temperature	2800 - 10000K
Image Contrast Ratio	22000:1
Brightness	1400 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 2.0 Audio line-out
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Dimensions & Weight (Shipping)

Width (Shipping)	200 cm
Depth (Shipping)	100 cm
Height (Shipping)	216.2 cm
Weight (Shipping)	301 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	1.68 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)	16x12

Video Wall

Resolution	1920 x 1080
Diagonal Size	146"

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