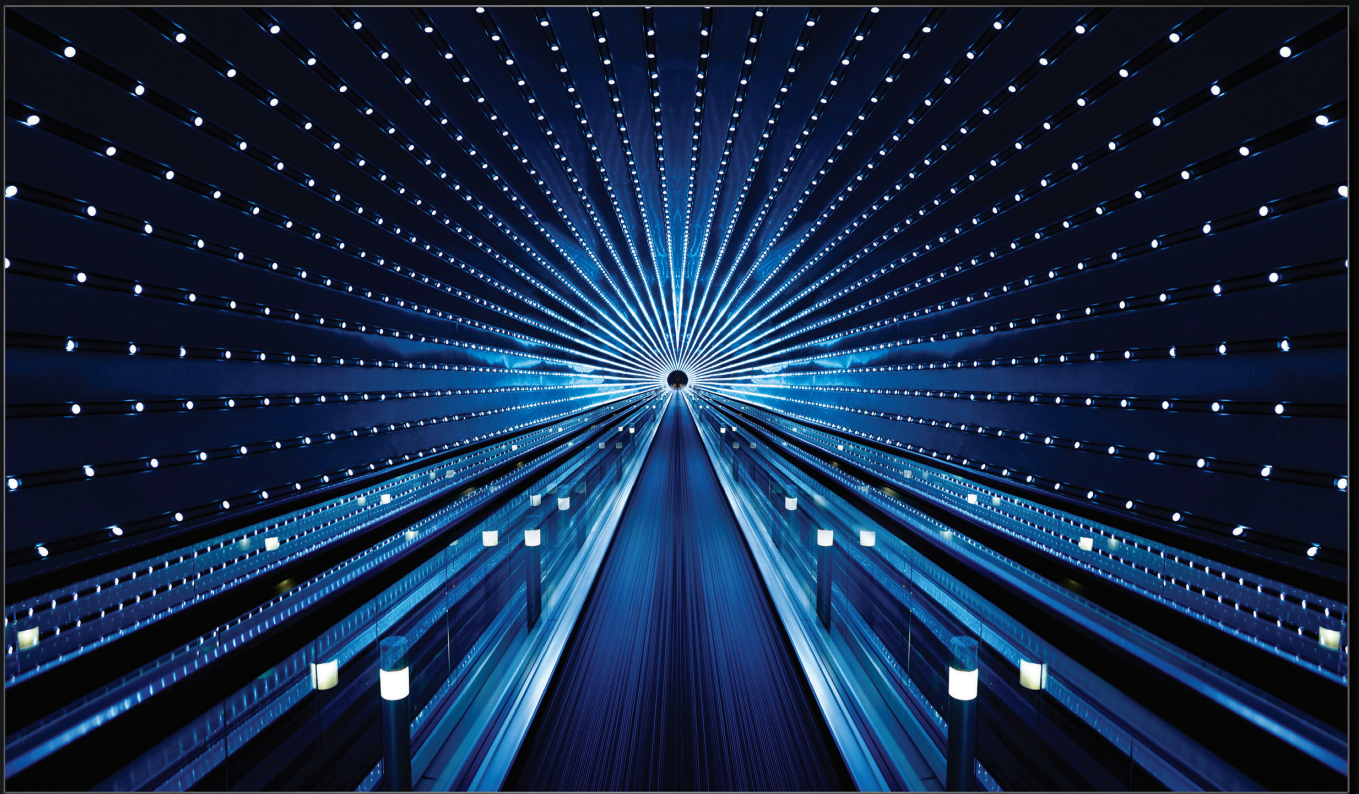# The Wall All-In-One

IAB Series

Make a bold statement, faster.

The Wall: Transform your everyday meeting experience

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.
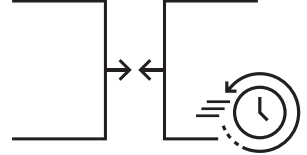
Stunning picture quality

- 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

Simple choice

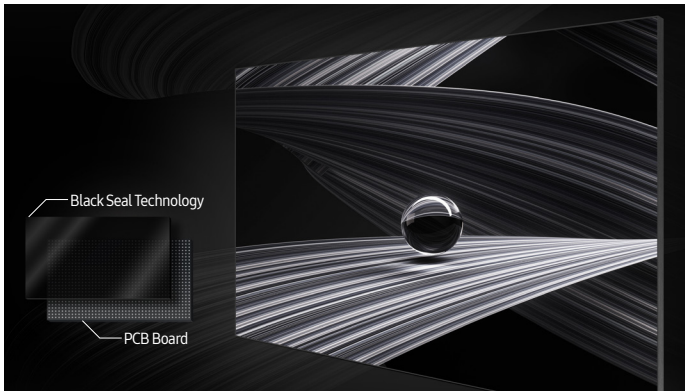- Two sizes and two resolution options
- All-inclusive components

Quick installation

- Installation within 2 hours for 2 people
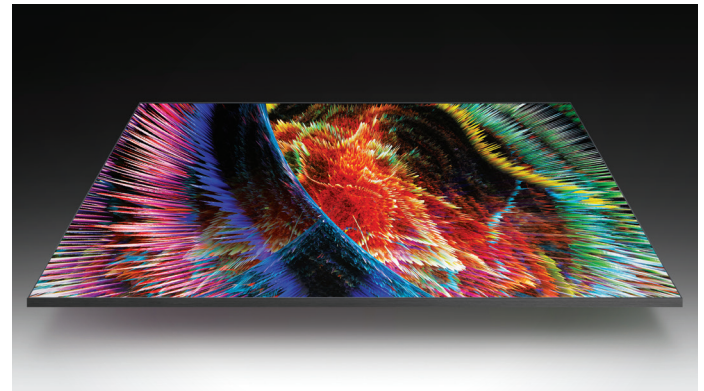- Auto configuration setup

Key features

Black Seal Technology

An abyss of depth

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.
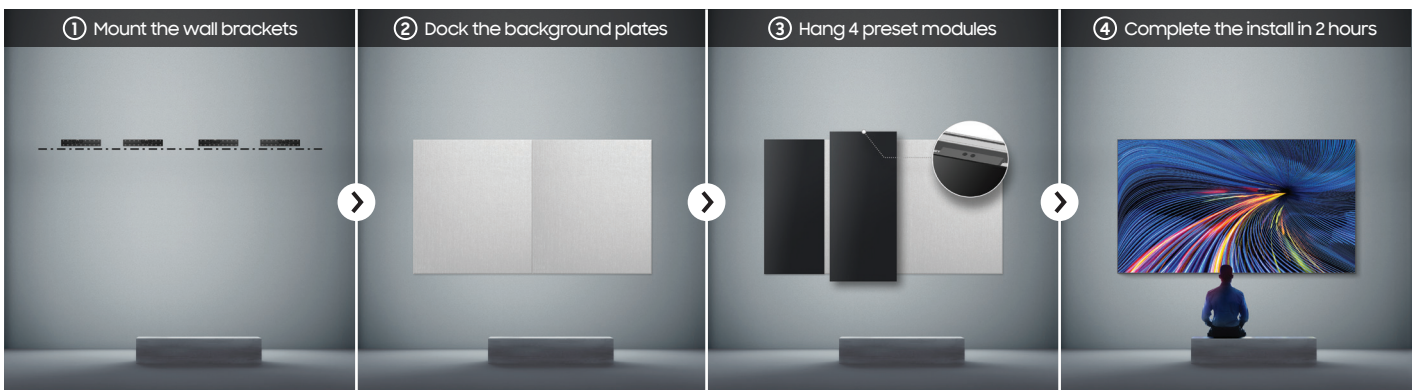

Ultra Chroma Technology

Ultimate color purity

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.

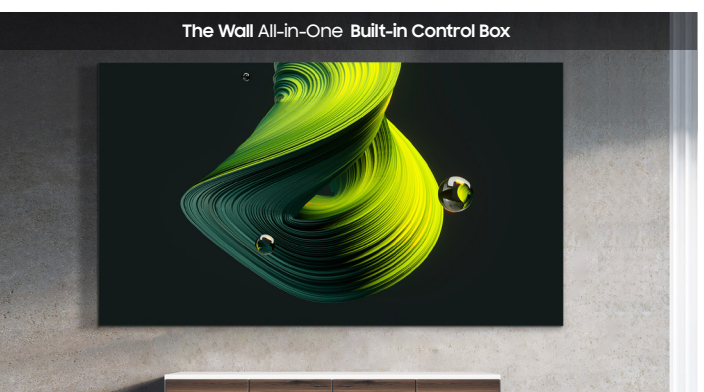* Figure is based on internal testing standards against Samsung's conventional LED Signage.

① Mount the wall brackets ② Dock the background plates ③ Hang 4 preset modules ④ Complete the install in 2 hours

Pre-assembled Installation

The installation process, reinvented

The Wall All-in-One drastically simplifies installation by docking the background plates and hanging just three or four preset modules, depending on the display size. Installation now takes about two hours for two people to complete the screen.

* The Wall All-in-One 110-inch model requires three preset modules. The 146-inch model requires four preset modules.
* Install time estimate based on internal testing.

Conventional LED External Control Box

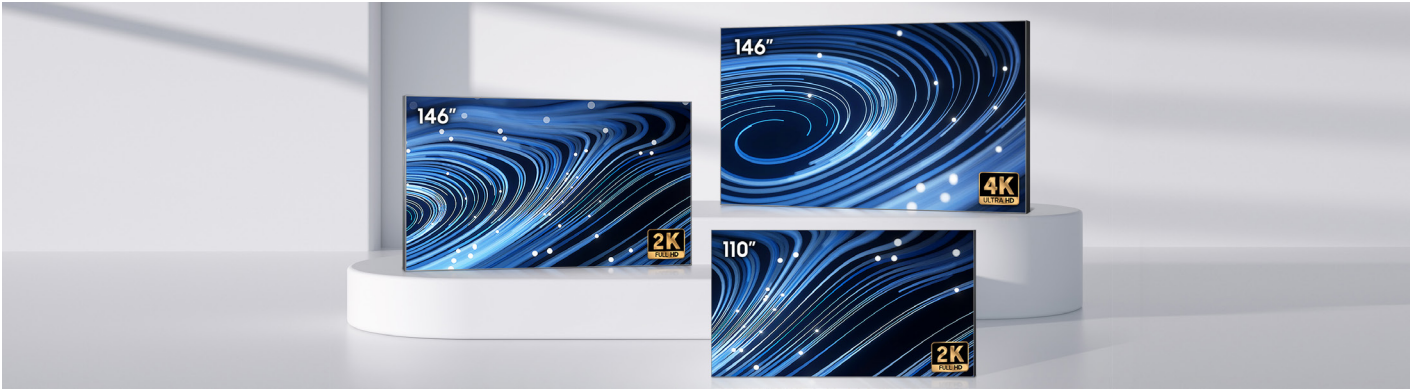The Wall All-in-One Built-in Control Box

Built-in Control Box

Auto configuration setup

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.

Key features

Simple Choice

Critical decisions without complexity

The Wall All-in-One removes complex elements traditionally associated with LED displays, creating a streamlined purchase path. Now, make purchases based on just two factors – resolution and size – without the complications such as pixel pitch or configuration.

Décor Bezel | Built-in Speakers

Built-in Control Box

Wall Bracket

All-inclusive Components

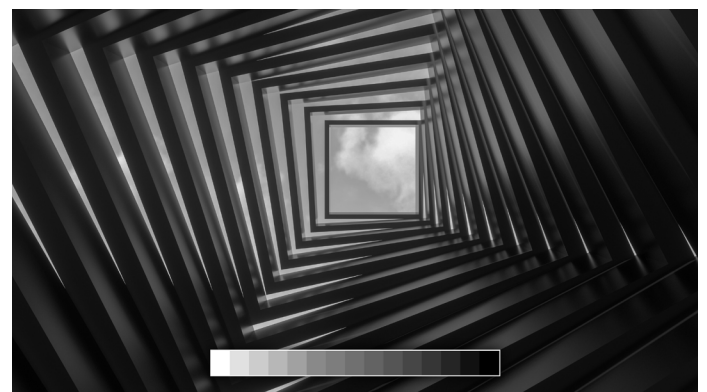### No extra peripherals needed

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.

Conventional Samsung LED
16bit processing

The Wall All-in-One
20bit processing

20bit Processing

Colors mapped to perfection

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.
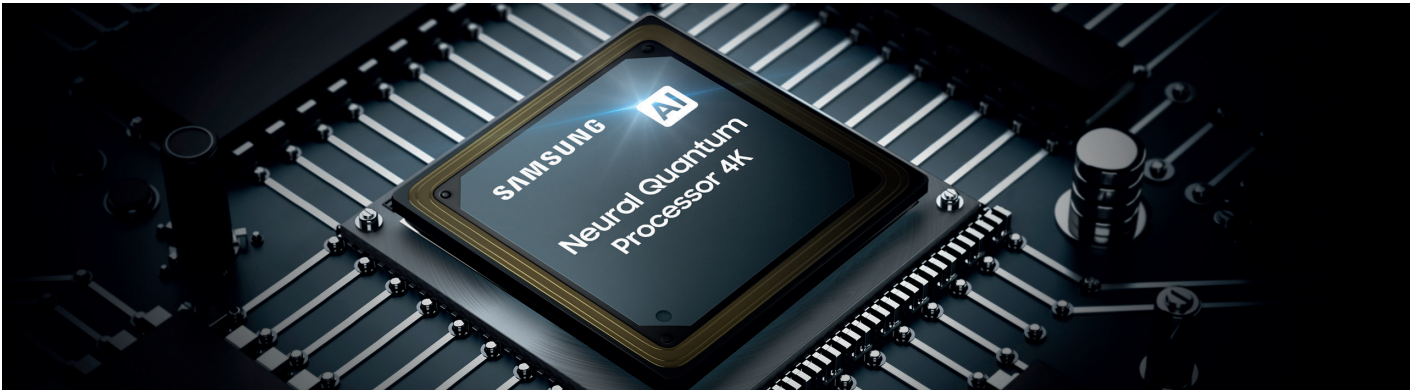
Linear Grayscale

Continuous natural shading

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.
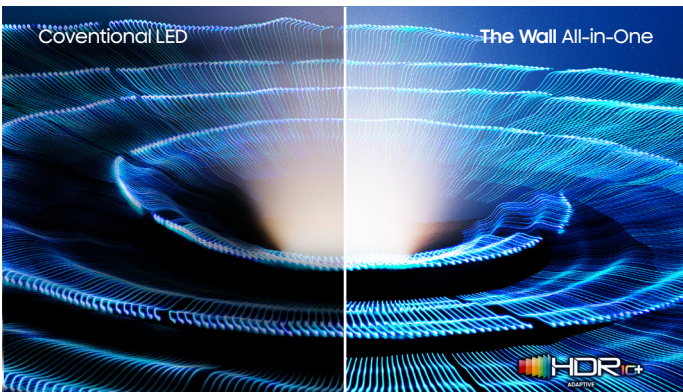
Key features

Neural Quantum Processor 4K

Instant AI optimization

Every second of content is instantly analyzed and optimized for perfect picture quality. The powerful AI processor delivers superior visuals in any size up to 4K* resolution, enhancing contrast and removing noise.

* The upscaling resolution may vary based on the resolution support of individual models.

MICRO HDR

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.

MICRO Motion

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.

Business applications

Meeting room

CEO Office

Office lobby

Auditorium

* Images are simulated and for illustration purpose only.

Specifications

Model	IAB		
	146" UHD	110" FHD	146" FHD
Physical Parameter			
Pixel Pitch	0.84 mm	1.26 mm	1.68 mm
Pixel Configuration	1 red, 1 green, 1 blue	1 red, 1 green, 1 blue	1 red, 1 green, 1 blue
Configuration (LxH, per screen)	3840 x 2160 pixels	1920 x 1080 pixels	1920 x 1080 pixels
Diode Type	Flip-chip RGB LED	Flip-chip RGB LED	Flip-chip RGB LED
Dimensions (mm, LxHxD, per screen)	3,225.6 x 1,814.4 x 49.5 mm	2,423.1 x 1,364.4 x 49.5 mm	3,225.6 x 1,814.4 x 49.5 mm
Dimensions (inch, per screen)	145.7 x 1.9 in	109.3 x 1.9 in	145.7 x 1.9 in
No. of Modules (WxH, per screen)	16 x 12	12 x 9	16 x 12
Weight (per screen)	168 kg / 370.3 lbs	99 kg / 218 lbs	168 kg / 370.3 lbs
Optical Parameter			
Brightness (Peak / Max) (1)	1,600 nit / 500 nit	1,600 nit / 500 nit	1,400 nit / 500 nit
Contrast Ratio (2)	24,000 : 1	24,000 : 1	22,000 : 1
HDR Compatibility	LED HDR / HDR10+ support / AI Picture	LED HDR / HDR10+ support / AI Picture	LED HDR / HDR10+ support / AI Picture
Viewing Angle - Horizontal	170°	170°	170°
Viewing Angle - Vertical	155°	155°	155°
Bit Depth	16 bit (Internal processing 20bit)	16 bit (Internal processing 20bit)	16 bit (Internal processing 20bit)
Color Temperature - Default	6,500K ± 500K (Floating bin)	6,500K ± 500K (Floating bin)	6,500K ± 500K (Floating bin)
Color Temperature - Adjustable	2,800K ~ 10,000K	2,800K ~ 10,000K	2,800K ~ 10,000K
Electrical Parameter			
Video Rate	50/60 Hz 100/120 (FRC) Hz	50/60 Hz 100/120 (FRC) Hz	50/60 Hz 100/120 (FRC) Hz
Input Power Range	100~240 VAC, 50/60 Hz	100~240 VAC, 50/60 Hz	100~240 VAC, 50/60 Hz
Power Consumption - Max	1700 (W/Screen)	900 (W/Screen)	1240 (W/Screen)
Power Consumption - Typ	1100 (W/Screen)	650 (W/Screen)	860 (W/Screen)
Heat Generation - Max	5800 (BTU/Screen)	3071 (BTU/Screen)	4231 (BTU/Screen)
Heat Generation - Typ	3753 (BTU/Screen)	2218 (BTU/Screen)	2934 (BTU/Screen)
Refresh Rate (3)	3,840 Hz	3,840 Hz	7,680 Hz
Operational Parameter			
Power Redundancy	No	No	No
Working Temperature / Humidity	0℃~+40℃ / 10%~80%RH	0℃~+40℃ / 10%~80%RH	0℃~+40℃ / 10%~80%RH
Storage Temperature / Humidity	-20℃~+45℃ / 5%~95%RH	-20℃~+45℃ / 5%~95%RH	-20℃~+45℃ / 5%~95%RH
IP Rating	IP20	IP20	IP20
LED Lifetime	150,000 hours	150,000 hours	150,000 hours
Connectivity / Sound			
Controller	Built-in	Built-in	Built-in
Input (Video)	DP1.2 (1), HDMI 2.0 (3), USB 2.0 (2)	DP1.2 (1), HDMI 1.4 (3), USB 2.0 (2)	DP1.2 (1), HDMI 1.4 (3), USB 2.0 (2)
Output	Audio (Stereo mini Jack) / eARC	Audio (Stereo mini Jack) / eARC	Audio (Stereo mini Jack) / eARC
WiFi / BT	O / O	O / O	O / O
External Control	RS232C(in), RJ45	RS232C(in), RJ45	RS232C(in), RJ45
Speaker	10W 2ch	10W 2ch	10W 2ch
Certification			
Safety	62368-1, 60950-1	62368-1, 60950-1	62368-1, 60950-1
EMC	Class A	Class A	Class A
Eye-protection	TUV Low Blue Light	TUV Low Blue Light	TUV Low Blue Light
Fire-protection	N/A	N/A	N/A
Service			
Service	Front	Front	Front
Features			
Operating System	Tizen 6.5	Tizen 6.5	Tizen 6.5
MagicINFO	Yes	Yes	Yes
Sensor	Temperature, Eco Sensor	Temperature, Eco Sensor	Temperature, Eco Sensor
Other	AI Picture, LED HDR, HDR10/10+, Dynamic Peaking	AI Picture, LED HDR, HDR10/10+, Dynamic Peaking	AI Picture, LED HDR, HDR10/10+, Dynamic Peaking
Other SW Features	Workspace (Microsoft365/VMWare/RDP), Auto Source Switching & Recovery, Dicom Simulation Mode, SmartView+(PC)	Workspace (Microsoft365/VMWare/RDP), Auto Source Switching & Recovery, Dicom Simulation Mode, SmartView+(PC)	Workspace (Microsoft365/VMWare/RDP), Auto Source Switching & Recovery, Dicom Simulation Mode, SmartView+(PC)
Accessories			
Accessories	Décor Frame, Frame Kit, Buffer parts (18 Modules, 1 T-Con, 1 SMPS)	Décor Frame, Frame Kit, Buffer parts (12 Modules, 1 T-Con, 1 SMPS)	Décor Frame, Frame Kit, Buffer parts (18 Modules, 1 T-Con, 1 SMPS)
Remote Control	IR Remote Cotroller	IR Remote Cotroller	IR Remote Cotroller
Package			
Box Dimension (mm/in, WxHxD)	2,000 x 2,162 x 1,000 mm / 78.7 x 85 x 39 in	2,847 x 1,582 x 398 mm / 112 x 62 x 15.6 in	2,000 x 2,162 x 1,000 mm / 78.7 x 85 x 39 in
Package Weight (per cabinet)	301 kg / 663.5 lbs	154 kg / 339.5 lbs	301 kg / 663.5 lbs
Special Installation			
Curve	N/A	N/A	N/A
Inclination	N/A	N/A	N/A
Rotation	N/A	N/A	N/A
Other(4)	Side by Side Installation with additional frame kit (up to 4 screens)	Side by Side Installation with additional frame kit (up to 4 screens)	Side by Side Installation with additional frame kit (up to 4 screens)

(1) Peak value according to IDMS (Information Display Measurement Standard)
(2) Measured under 10lux light Test condition. Contrast in darkroom exceeds 1000000:1
(3) Referring to visual refresh rate
(4) optional structure required

SAMSUNG