* All images in this document are for illustrative purposes only.

Video Wall VH7J-H

Artistic Immersion, Overwhelming Captivation

Narrow Bezel
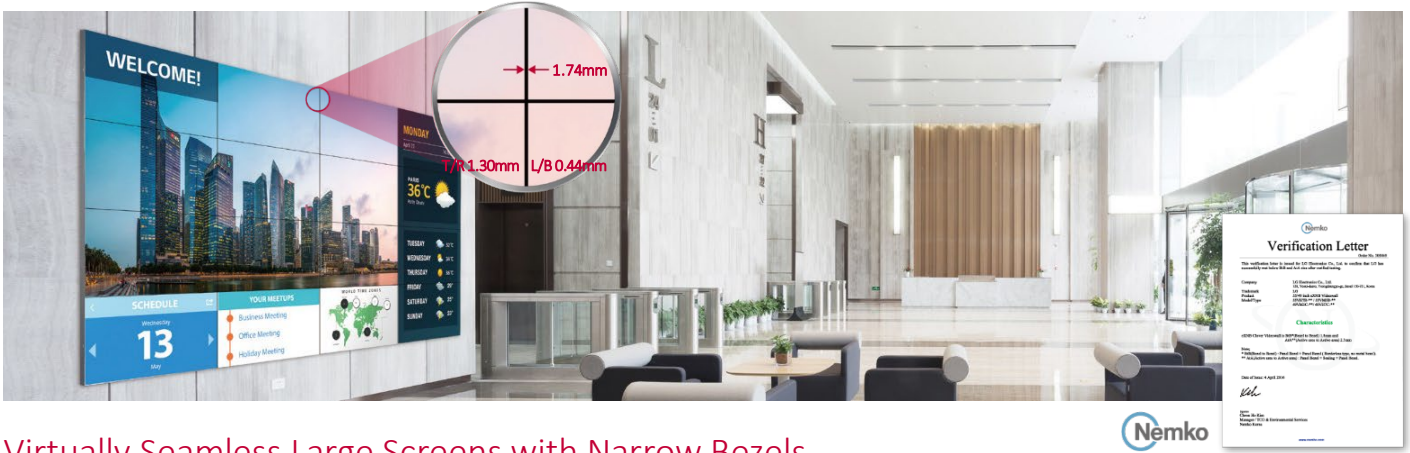
Wider Viewing Angle

Easy Color Adjustment

Efficient Operation

VH7J-H	
Screen Size	55"
Aspect Ratio	16 : 9
Native Resolution	FHD (1,920 × 1,080)
Brightness	700 nits (Typ.)
Contrast Ratio	1,000 : 1

Virtually Seamless Large Screens with Narrow Bezels

The ultra slim bezel, with its 1.74mm B-to-B (Bezel to Bezel) seam, drastically reduces bezel interference and delivers immersive and seamless content on assembled video wall screens.*

* The 1.74mm B-to-B have been verified by Nemko, a global institution that tests and certifies electrical equipment.

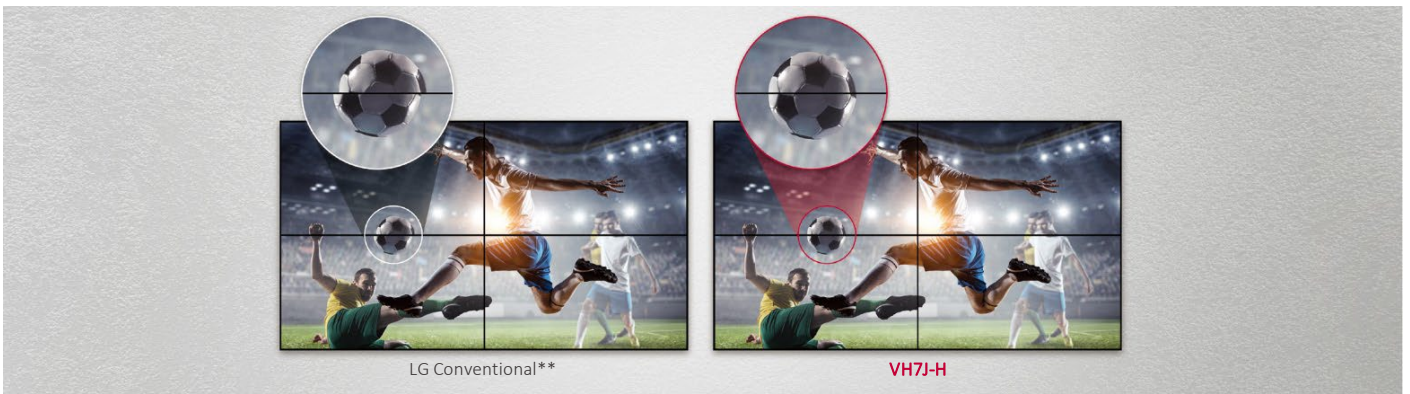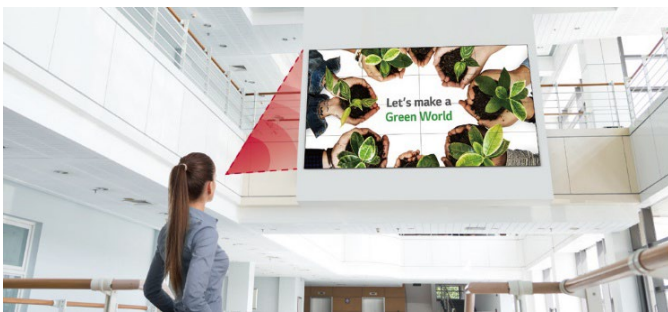LG Conventional**   VH7J-H

Image Gap Reduction

The VH7J-H includes an image improvement algorithm that can reduce image gaps among tiled displays when playing videos. Objects located on the bezel boundaries are adjusted for a virtually seamless viewing experience.

** The "LG Conventional" refers to displays which do not include an image improvement algorithm.

40° High Viewing Angle***
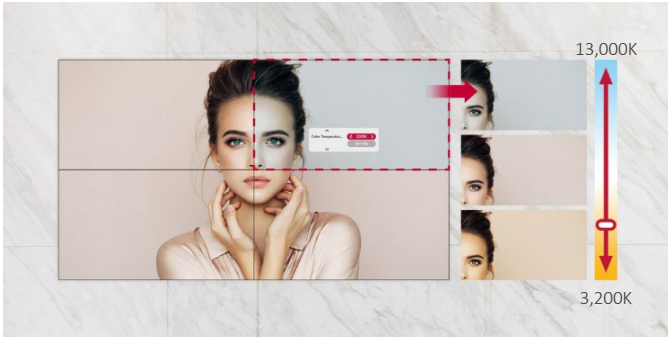

Higher Viewing Angle

Large screens are usually positioned higher than human-eye level. Wide half luminance angle (40°) enables effective picture quality for video walls. The viewing angle of the VH7J-H is high enough to display vivid colors throughout the screen without color distortion.

Wider Viewing Angle

LG IPS panel technology enables stable and smooth control of liquid crystals and allows the screen to be viewed from virtually any angle. Therefore, the VH7J-H captivates the attention of viewers with lifelike colors, regardless of their viewing position.

*** Results based on in-house testing. Actual test results may differ depending on environment and measuring equipment.

Easy Color Adjustment

Depending on the content, the color temperature of the display can be easily adjusted in increments of 100K using a remote control.

Simple White Balance Adjustment

In conventional video walls, white balance was adjustable only in "full-white" mode, but the VH7J-H can modify each value of grayscale for more detailed adjustment.
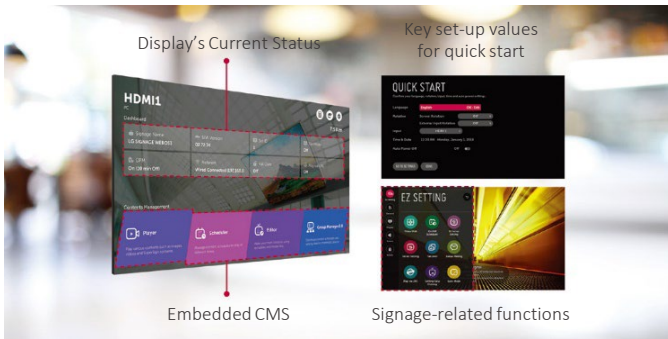
High Performance and Great Scalability

Thanks to its built-in system on chip and webOS smart signage platform, the VH7J-H can execute several tasks at once while providing smooth content playback without the need for a media player. The HTML5 web-based platform offers a software development kit for system integrators to build and optimize their web apps.*

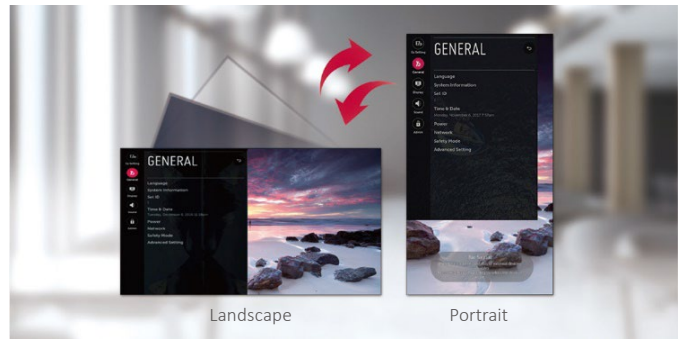* The SDK can be downloaded at https://webossignage.developer.lge.com

Flexible Content Creation

Four different videos can be played simultaneously via web apps, and various animation effects, such as scaling or rotating, are added to content using CSS (Cascading Style Sheets) transition effects. Real-time streaming is also available, providing the flexibility to organize and diversify content free from capacity limits. Supported protocols include RTSP, RTP, HLS, and UDP Multicast.

Intuitive Menu Structure

The menu structure has been optimized for commercial use. It simplifies approach flows and groups similar functions together, adopting a more intuitive GUI for ease of use. This way, users can avoid having to do trial-and-error when exploring desired functions and managing displays.

Dedicated User Interface for Portrait Mode

The conventional user interface was designed for landscape-oriented consumer TV usage, so the onscreen display was not well-suited for screens in portrait mode. The VH7J-H, however, provides a menu with a 9:16 aspect ratio and larger font sizes, creating a comfortable and efficient user interface.

With Conformal Coating
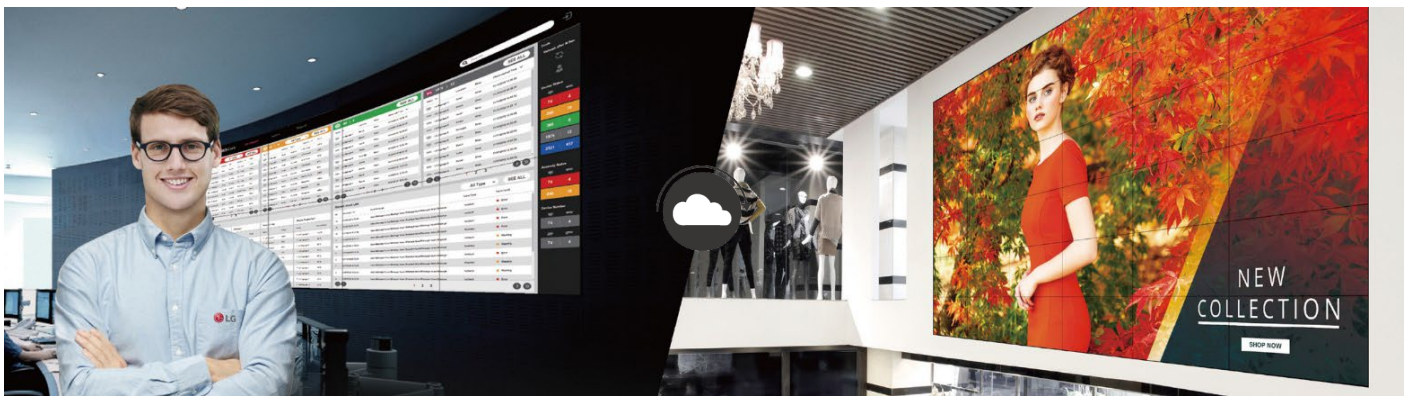
Without Conformal Coating

Conformal Coating

Even Video walls in various internal places may not avoid exposure to environments with dust and humidity which may lead to hampered performance over time. Conformal coating on the major circuit board (power board) protects components from such environments by covering them with a protective coating.

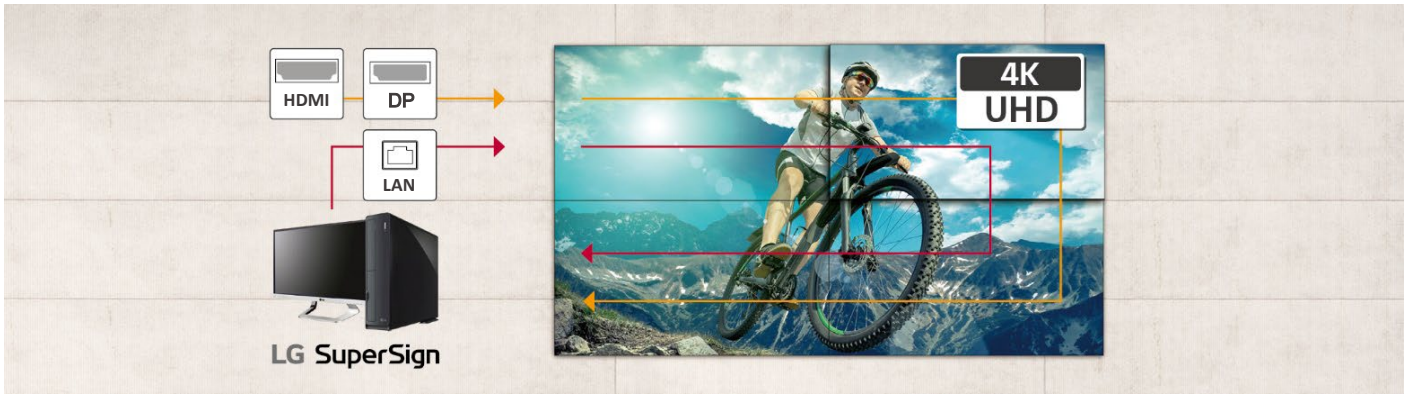|	Class A		Class B	
USA	🏢	Non-residential	🏠	Residential
EU	🏭	Industrial	🏙️	Residential, Commercial, Light Industrial

Stricter Emissions Limits →

EMC Class B Certified

The VH7J-H is certified as EMC Class B, which requires electronic equipment made for use in residential environments as well as commercial, industrial, or business environments. Therefore, it is suitable for up-close uses such as corporate meeting rooms, board rooms, and more.

Real-Time LG ConnectedCare

Maintenance is easy and fast with the optional LG ConnectedCare service, a cloud service solution provided by LG. It allows you to remotely manage the status of displays in client workplaces for fault diagnosis and remote-control services, facilitating the stableoperation of clients' businesses.
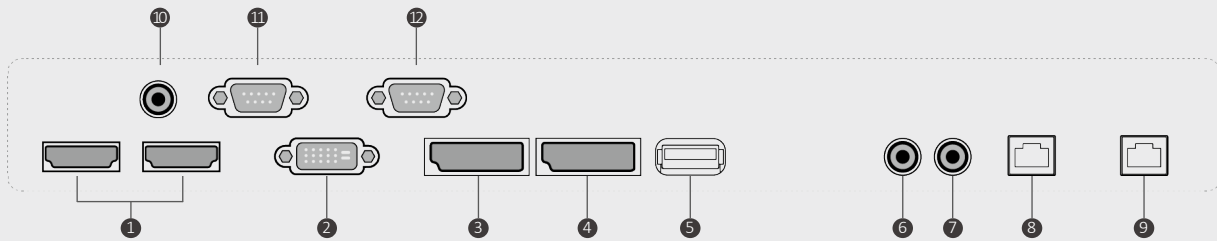
Daisy Chain Capability

A LAN daisy chain allows you to control and monitor video walls and even update their firmware simultaneously. Also, through UHD daisy chain using HDMI and DisplayPort, you can easily set up a UHD video wall without the need of DisplayPort MST.

IP5x Certified Design

The IP5x Dust-Proof Certification ensures that the product has protection from dust in the working environment.

CONNECTIVITY

❶ HDMI IN	❶ DP OUT	❶ AUDIO OUT	❶ IR IN
❷ DVI-D IN	❷ USB 2.0 IN	❷ LAN IN	❷ RS-232C IN
❸ DP IN	❸ AUDIO IN	❸ LAN OUT	❸ RS-232C OUT

* Jack Panels may differ from the above image, so please contact LG sales team to verify before ordering.

SPECIFICATIONS

VH7J-H

Panel	Screen Size	55"
	Panel Technology	IPS
	Native Resolution	1,920 × 1,080 (FHD)
	Brightness	700 nits (Typ.)
	Contrast Ratio	1,000 : 1
	Dynamic CR[1]	500,000 : 1
	Color Gamut	NTSC 72%
	Viewing Angle (H × V)	178° × 178°
	Color Depth	10 bit (D), 1.07 Billion Colors
	Response Time (G to G)	8 ms
	Surface Treatment (Haze)	28%
	Operation Hours (Hours / Day)	24 / 7
	Portrait / Landscape	Yes / Yes
Connectivity	Input	HDMI x2 (HDCP 2.2), DP (HDCP 2.2), DVI-D (HDCP 1.4), Audio In, RS-232C In, RJ45 (LAN), IR In, USB 2.0 Type A
	Output	DP Out (Input : HDMI / DVI / DP), Audio Out, RS-232C Out, RJ45 (LAN)
Mechanical Specification	Bezel Color	Black
	Bezel Width B2B	1.74 mm (Panel Bezel to Panel Bezel), 1.3 mm (T/L), 0.44 mm (B/R)
	Bezel Width A2A	2.49 mm (Active Area to Active Area), 1.75 mm (T/L), 0.74 mm (B/R)
	Weight (Head)	41.4 lbs. / 18.8 kg
	Monitor Dimension (W × H × D)	47.7 x 26.9 x 3.4 in. / 1,212.2 × 683.0 × 86.9 mm
	Handle	Yes
	VESA™ Standard Mount Interface	600 × 400 mm
Key Feature		Internal Memory 8 GB, Sensor (Temperature Sensor, BLU Sensor), Local Key Operation, webOS 4.1, Embedded CMS (Local Contents Scheduling, Group Manager), USB Plug & Play, Fail Over, Background Image (No Signal Image), Sync Mode (RS-232C Sync, Local Network Sync), Video Tag (4), Play via URL, Rotation (Screen Rotation, External Input Rotation), Gapless Playback, Tile Mode Setting (Max. 15 × 15), Setting Data Cloning, SNMP, ISM Method, Auto Set ID, Status Mailing, Control Manager, 3rd Party Compatibility (Crestron Connected®[2]), Power (Smart Energy Saving, PM Mode, Wake on LAN, Network Ready), HDMI-CEC[3], SI Server Setting, webRTC, Pro:Idiom, W/B Setting by Grey Scale, Scan Inversion
Environment Conditions	Operation Temperature	32°F to 104°F / 0°C to 40°C
	Operation Humidity	10% to 80%
Power	Power Supply	100-240 Vac, 50/60 Hz
	Power Type	Built-In Power
	Power Consumption Typ. / Max.	210 W / 250 W
	Power Consumption BTU (British Thermal Unit)	717 BTU/Hr (Typ.), 853 BTU/Hr (Max.)
Certification	Safety	CB / NRTL
	EMC	FCC Class "B" / CE / KC
	ErP	Yes (Energy Star 8.0 (EU Only))
Media Player Compatibility	OPS Type Compatible	Yes (Piggyback)
Software Compatibility		SuperSign CMS, SuperSign Control / Control+, SuperSign WB, SuperSign Media Editor, LG ConnectedCare[4]
Language	OSD	English, French, German, Spanish, Italian, Korean , Chinese (Simplified), Chinese (Original), Portugues (Brazil), Swedish, Finnish, Norwegian, Danish, Japanese, Russian, Portugues (Europe), Dutch, Czech, Greek, Turkish, Arabic
Accessory	Basic	Remote Controller, Power Cord, RS-232 Cable, LAN Cable, DP Cable, IR Receiver, Guide Bracket, Screws, Manual
	Optional	OPS Kit (KT-OPSF)
Special Feature		Smart Calibration

[1] The luminosity ratio of Full Black / Full White color on video input condition.
[2] Network based control.
[3] Compatibility may differ by equipment.
[4] Availability may differ by region.

Specifications are subject to change without notice. Please make sure to check the product manual for details about product usage.

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