

INTERNATIONAL CONFERENCE ON INFORMATION DISPLAY

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

Video Wall VH7J-H

Artistic Immersion, Overwhelming Captivation



Extreme-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 nit (Typ.)
Contrast Ratio	1,000 : 1



Seamless Large Screens with Extreme-Narrow Bezel

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

* The 1.74mm BtoB (Panel Bezel to Panel Bezel) have been verified by Nemko, a global institution that tests and certifies electrical equipment.

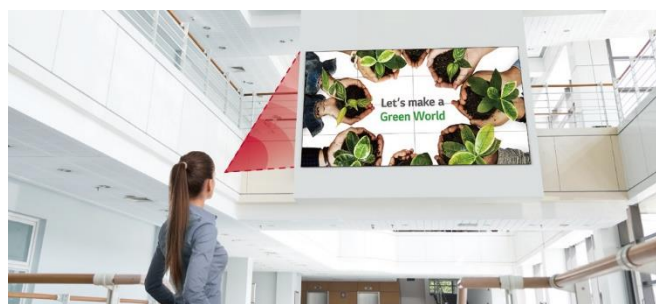


Image Gap Reduction

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

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

** The image shown above are for illustration purposes only.



40°* High Viewing Angle

Higher Viewing Angle

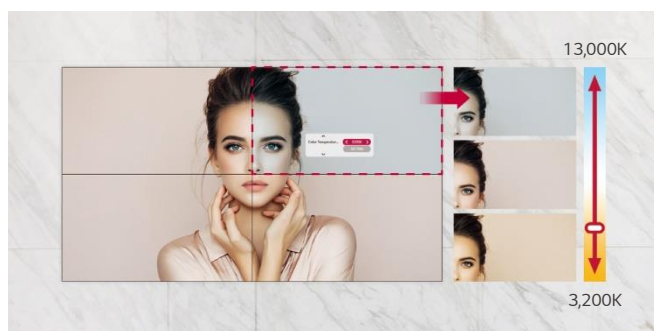
Large screens are usually positioned higher than human-eye level. Wide half luminance angle (40°) enables effective picture quality for video walls. The viewing angle of the VH7J-H is high enough to display vivid colors throughout the screen without any color distortion.

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



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 more viewers with lifelike colors, regardless of their viewing position.



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

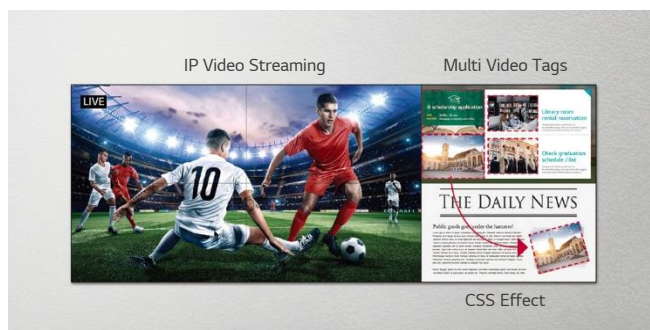
In conventional video walls, white balance was adjustable only in "full-white" mode, but the VH7J-H allows you to modify each value of grey scale to achieve more detailed and precise white balance adjustment.



High Performance and Great Scalability

Thanks to its built-in SoC 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. As webOS supports HTML5 as a web-based platform and offers SDK (Software Development Kit), it is even easier for SIs to build and optimize their web apps.

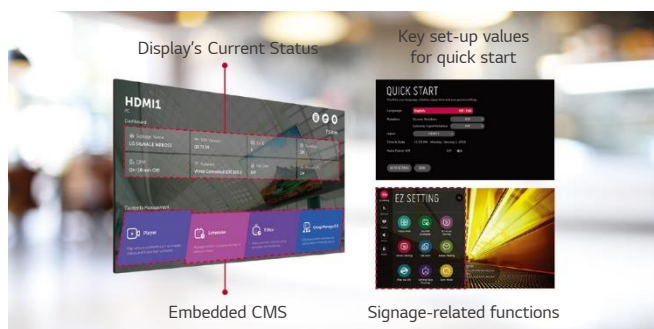
* SDK can be downloaded with the link below.
(<https://webossignage.developer.lge.com>)



Flexible Content Creation

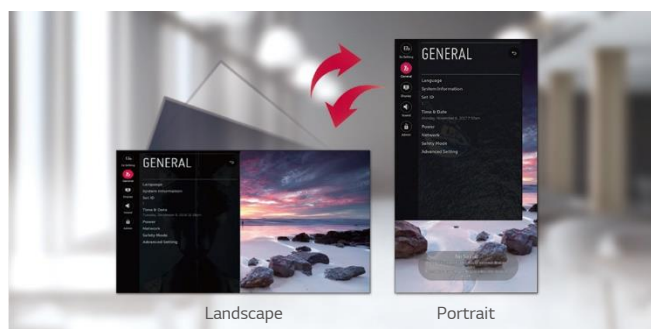
Four different videos can be played simultaneously via web apps, and various animation effects, such as scaling or rotating, are added to content using CSS (Cascading Style Sheets) transition effects. Real-time streaming is also available, providing the flexibility to organize and diversify content free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

* Supported protocols : RTSP, RTP, HLS, 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 GUI for Portrait Orientation

The conventional GUI (Graphic User Interface) was designed based on landscape-oriented consumer TV usage, so OSD (On Screen Display) wasn't well-suited for screens in portrait mode. The OSD of the VH7J-H, however, consists of a long range menu with bigger font sizes and a 9:16 ratio, creating a comfortable and efficient business environment.



Conformal Coating

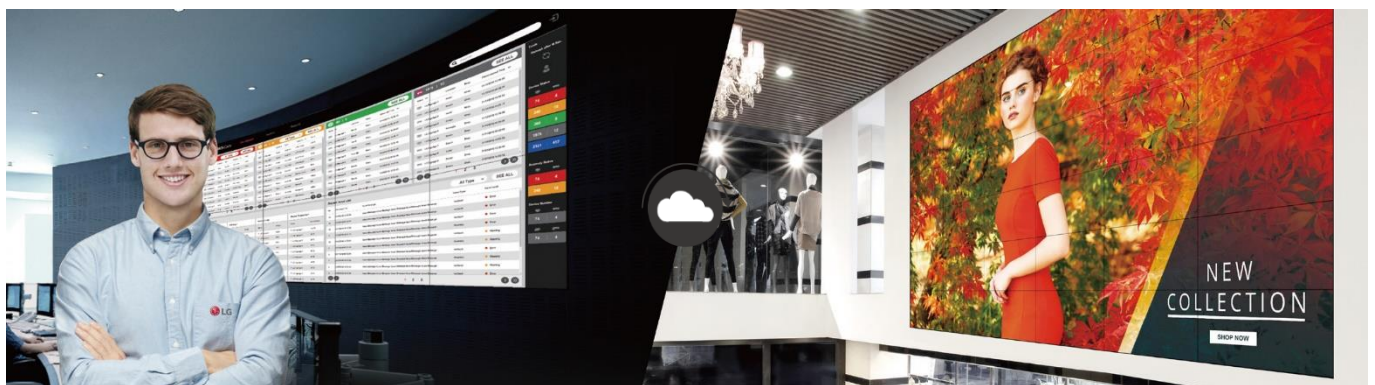
Video wall in various places can't avoid exposure to environments with dust, and humidity, which may lead to hampered performance over time. Conformal coating on the major circuit board (power board) significantly reduces these risks from such environments by protecting video wall from salt, dust, iron powder, humidity, etc.

* Actual images (Signage display) available may differ from the example images shown.



EMC Class B Certified

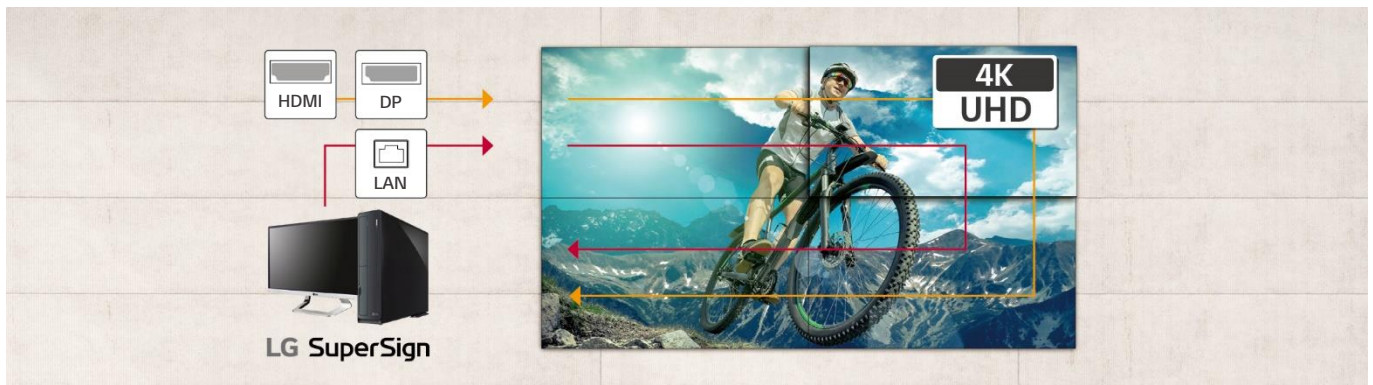
The VH7J-H is certified as EMC Class B, which requires electronic equipment made for use in residential environments as well as commercial, industrial, or business environments. Therefore, it is suitable for up-close uses such as corporate meeting rooms, board rooms, etc.



Real-Time LG ConnectedCare

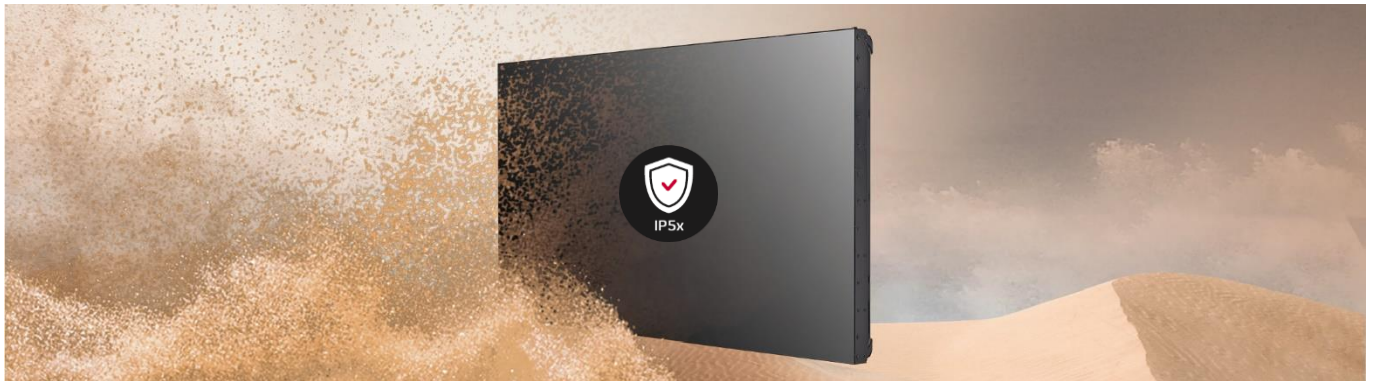
Maintenance is easy and fast with the optional LG ConnectedCare* service, a cloud service solution provided by LG. It remotely manages the status of displays in client workplaces for fault diagnosis and remote-control services, enabling the stable operation of clients' businesses.

* LG ConnectedCare is the brand name of LG Signage365Care Service. The availability differs by region.



Daisy Chain Capability

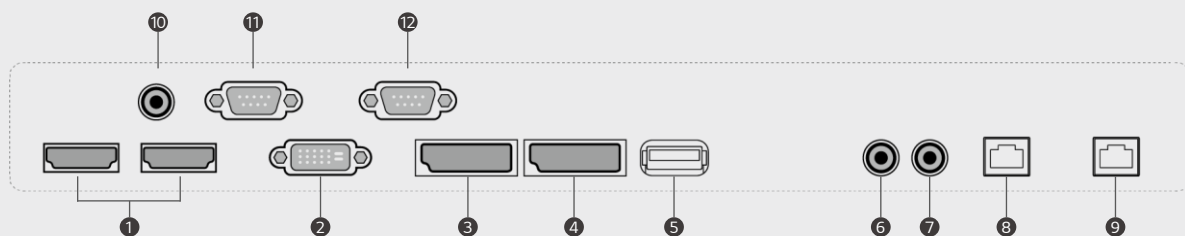
A LAN daisy chain allows you to control and monitor video walls and even update their firmwares at once. Also, through UHD daisy chain using HDMI and DisplayPort, you can easily set up a UHD video wall without the need of DisplayPort MST.



IP5x Certified Design

The IP5x Dust-Proof Certification ensures that the product is protected from dust, eliminating the risk of performance degradation.

CONNECTIVITY



- ① HDMI IN
- ② DVI-D IN
- ③ DP IN

- ① DP OUT
- ② USB 2.0 IN
- ③ AUDIO IN

- ① AUDIO OUT
- ② LAN IN
- ③ LAN OUT

- ① IR IN
- ② RS-232C IN
- ③ RS-232C OUT



SPECIFICATIONS

VH7J-H

Panel	Screen Size		55"
	Panel Technology		IPS
	Native Resolution		1,920 × 1,080 (FHD)
	Brightness		700 nit (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		8 ms (G to G)
	Surface Treatment (Haze)		28%
	Operation Hours (Hours / Day)		24 / 7
	Portrait / Landscape		Yes / Yes
Connectivity	Input		HDMI 2 (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)
		A2A	2.49 mm (Active Area to Active Area), 1.75 mm (T/L), 0.74 mm (B/R)
	Weight (Head)		18.8 kg
	Monitor Dimension (W × H × D)		1,212.2 × 683.0 × 86.9 mm
	Handle		Yes
Key Feature	VESA™ Standard Mount Interface		600 × 400 mm
	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, 3 rd Party Compatibility (Crestron Connected ^{®2)}), Power (Smart Energy Saving, PM Mode, Wake on LAN, Network Ready), HDMI-CEC ³⁾ , SI Server Setting, webRTC, ProIdiom, W/B Setting by Grey Scale, Scan Inversion		
Environment Conditions	Operation Temperature		0°C to 40°C
	Operation Humidity		10% to 80%
Power	Power Supply		AC 100-240 V ~, 50/60 Hz
	Power Type		Built-In Power
	Power Consumption	Typ. / Max.	210 W / 250 W
		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	IP5X tested		

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⁾ The availability can 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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