Ultra-Narrow Bezel Video Walls- 55VH7B, 55VM5B & 49VM5C

Impressive Engagement and Overwhelming Attraction

With their slim bezels and virtually borderless designs, the 55VH7B, 55VM5B and 49VM5C video walls offer maximum immersion. Their quad-core SoC system plays various types of content without the need for an external media player, with easy and efficient management tools. These video walls have been designed to raise engagement in areas such as museums, airports, galleries and large retail spaces.
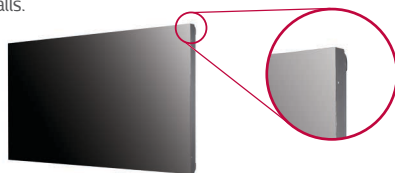
Key Features

Borderless Design

Borderless Design →←

Ultra-Narrow Bezel

The borderless design with its 0.9 mm even panel bezel* and 1.8 mm BtB (Bezel to Bezel)** size, verified by Nemko***, enables an immersive and virtually seamless viewing experience on assembled video walls.

*Panel Bezel:
The black matrix section where an image is not displayed on the front panel.
**BtB (Bezel to Bezel):
Panel Bezel + Panel Bezel (Borderless type, no metal bezel)

***Nemko (Nogerois Elektriske Materiellkontroll) was established in 1933 as an institution for mandatory safety testing and national approval of electrical equipment to be marketed and sold in Norway. Since it was transformed into independent, self-owned foundation in 1991, it has provided worldwide testing and certification.

Nemko

Verification Letter

Smart Platform

Built-in SoC* and Synced Playback

The optimized built-in quad-core SoC in the 55VH7B, 55VM5B and 49VM5C can play various content formats and eliminates the need for an external media player. Using its built-in SoC, each display plays its video tile without lag for synchronized content playback.

SoC

*System-on-Chip

CPU
1.2 GHz Quad Core CPU

Memory
2.5 GB double data 3 (DDR3) 32 bit memory

GPU
550MHz video processor with full codec
(WMV, MP4, HEVC, VP9, and H.264 capabilities)

Internal Memory
A storage of 8 GB (4 GB is occupied by system)

webOS

The webOS platform provides easy and convenient tools to create contents. LG's SDK* and technical supports make content development and management easier.

http://developer.lge.com/webOSSignage

*Software Development Kit

LG
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Screen Sizes
49", 55"

**IPS** | **24hr/7days** | **SUPERSIGN** webOS

55VH7B, 55VM5B and 49VM5C
- Brightness: 55VH7B: 700 cd/m², 55VM5B/49VM5C: 500 cd/m²
- Surface Treatments:
  - 55VH7B-B: Hard coating(2 H), Anti-reflection treatment of the front polarizer (Reflectance < 2 %)
  - 55VH7B-H: Hard coating(3 H), Anti-glare treatment of the front polarizer (Haze 44 %)
  - 55VM5B: Hard coating(2 H), Anti-glare treatment of the front polarizer (Haze 10 %)
  - 49VM5C: Hard coating(3 H), Anti-glare treatment of the front polarizer (Haze 10 %)
- Bezel: 0.9 mm (T/B/L/R even bezel)
- Depth:
  - 55VH7B/55VM5B: 86.5 mm
  - 49VM5C: 86.2 mm
- Interfaces: HDMI / DVI / RGB / IR, Daisy-chain (DP, RS232C, RJ45)

Key Features

Superior Picture Quality

Clear Viewing Angle

The 55VH7B, 55VM5B and 49VM5C ensure clear picture quality, even when installed in arrays of more than four, ideal for installations in large spaces.

Half luminance angle (vertical-wise): 45 degree*

5 m

3 m

1 m

45°

3 m
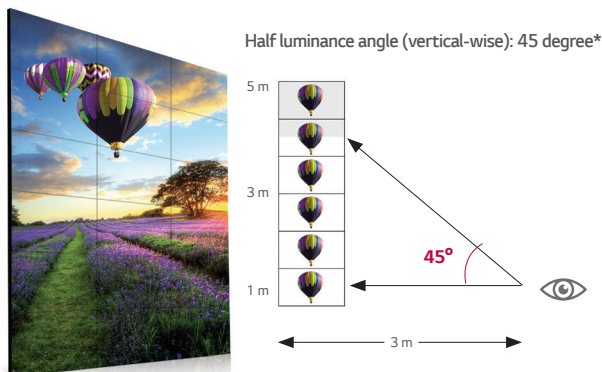
*The angle from the center of the screen to have 50 % of the initial luminance.

Uniform Brightness

LG's LED backlight technology provides high uniformity in brightness to ensure a clear picture. On other screens, certain spots may appear darker than others, but the new 55VH7B, 55VM5B and 49VM5C generate high visibility and a consistent brightness across the whole screen.

Conventional (80 %) | 55VH7B, 55VM5B, 49VM5C (90 %)

Video Wall Image Creation Technology

Through Video Wall Image Creation (VIC) technology; color and brightness differences are compensated for by an algorithm within the circuitry that gives the panels the same characteristics, enabling the video wall to maintain a consistent white balance from panel-to-panel.
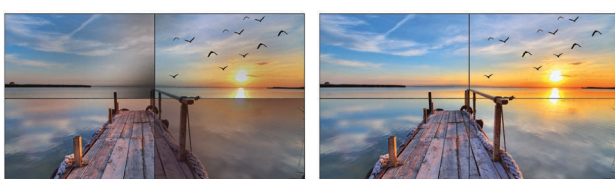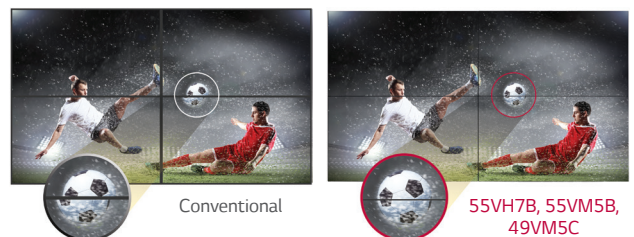

Conventional | 55VH7B, 55VM5B, 49VM5C

Image Gap Reduction

The 55VH7B, 55VM5B and 49VM5C include an image-improvement algorithm that can adjust to images moving within the boundaries of the bezels, enabling a seamless viewing experience from screen-to-screen.
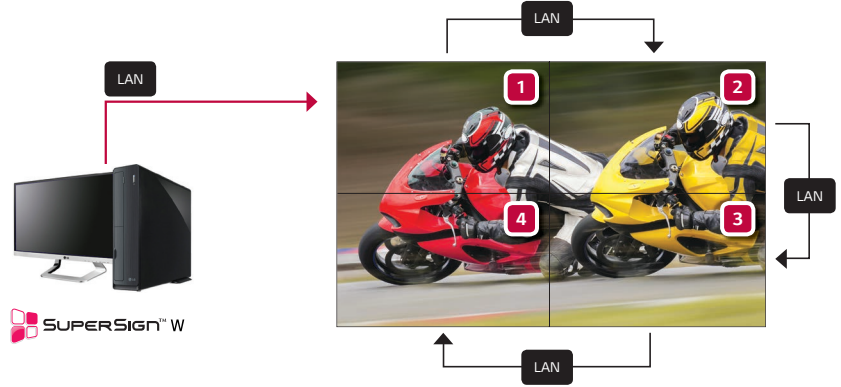

Conventional | 55VH7B, 55VM5B, 49VM5C

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### Enhanced Content Management

LAN Daisy Chain Performance

The LAN daisy chain allows you to execute commands to control and monitor the screens, and even update their firmware.
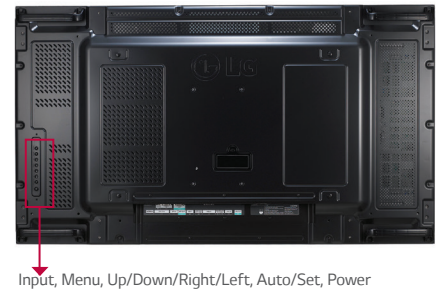
Convenient Options

Guide Bracket / Classified Port

A guide bracket is an attachment that ensures the video wall remains flat. The classified in/out port prevents errors when connecting a daisy chain.

❶ Guide Bracket
❷ Classified In/Out Port
  • Input: White
  • Output: Green
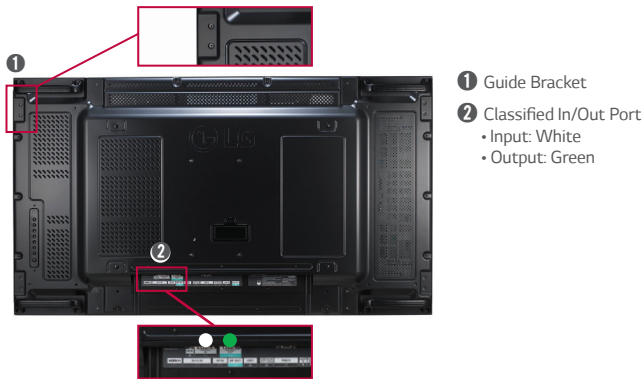
Control Buttons

With 8 control buttons, it's easy to operate various functions of the 55VH7B, 55VM5B and 49VM5C, such as controlling the OSD (On Screen Display) and changing the input source.
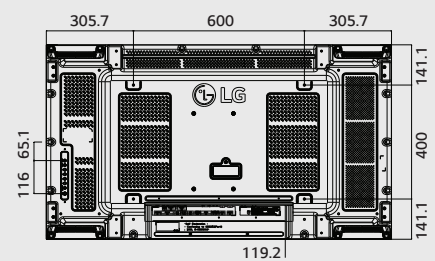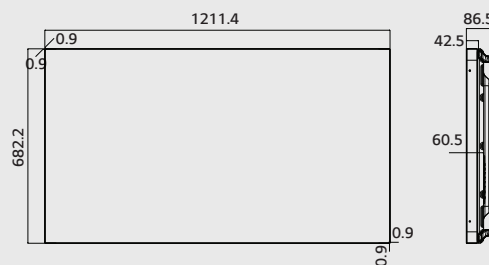
Input, Menu, Up/Down/Right/Left, Auto/Set, Power

Dimension (unit : mm)

55"
(54.7" measured diagonally)
1,211.4 x 682.2 x 86.5 mm
18.6 kg

1211.4 · 0.9 · 682.2 · 86.5 · 42.5 · 60.5 · 116 · 65.1 · 305.7 · 600 · 305.7 · 141.1 · 400 · 141.1 · 119.2

49"
(48.50" measured diagonal)
1,075.6 x 605.8 x 86.2 mm
17.5 kg

1075.6 · 0.9 · 605.8 · 86.2 · 42.2 · 60.2 · 116 · 119.8 · 237.8 · 600 · 237.8 · 102.9 · 400 · 102.9 · 82
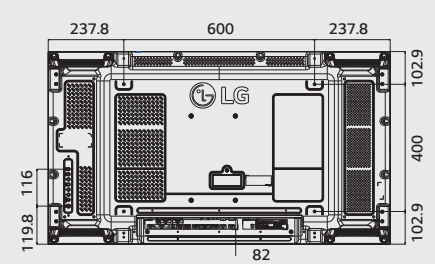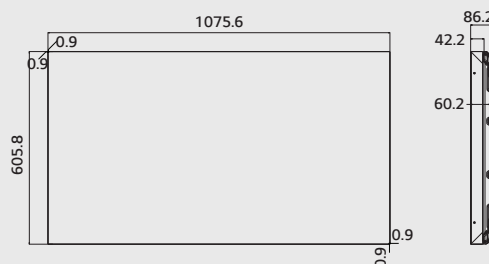
Specifications

		55VH7B	55VM5B	49VM5C
PANEL	Screen Size	55"	55"	49"
	Panel Technology	IPS		
	Aspect Ratio	16 : 9		
	Native Resolution	1,920 x 1,080 (FHD)		
	Brightness	700 cd/m²	500 cd/m²	500 cd/m²
	Contrast Ratio	1,400:1	1,400:1	1,300:1
	Dynamic CR	500,000:1		
	Viewing Angle (H x V)	178 x 178		
	Response Time	8ms (G to G)		
	Surface Treatment	55VH7B-B : Hard coating(2 H), Anti-reflection treatment of the front polarizer (Reflectance <2 %) 55VH7B-H : Hard coating(3 H), Anti-glare treatment of the front polarizer (Haze 44 %)	Hard coating(2 H), Anti-glare treatment of the front polarizer (Haze 10 %)	Hard coating (3 H), Anti-glare treatment of the front polarizer (Haze 10 %)
	Guaranteed Operating Hour	24 Hours		
	Orientation	Portrait & Landscape		
CONNECTIVITY	Input	HDMI, DP, DVI-D, OPS, Audio, USB 2.0, USB 3.0, RGB		
	Output	DP, Audio		
	External Control	RS232C, RJ45, IR Receiver		
PHYSICAL SPECIFICATION	Bezel Color	Black		
	Bezel Width	0.9 mm (Top/Bottom/Left/Right even bezel) / 1.8 mm *B to B : Panel Bezel + Panel Bezel		
	Monitor Dimension (W x H x D)	1,211.4 x 682.2 x 86.5 mm	1,211.4 x 682.2 x 86.5 mm	1,075.6 x 605.8 x 86.2 mm
	Weight (Head)	18.6 kg	18.6 kg	17.5 kg
	Carton Dimensions (W x H x D)	1,353 x 855 x 263 mm	1,353 x 855 x 263 mm	1,214 x 775 x 263 mm
	Packed Weight	25.3 kg	25.3 kg	23.2 kg
	VESA™ Standard Mount Interface	600 x 400 mm		
SPECIAL FEATURES		Temperature Sensor, Tile Mode (up to 15 x 15), Natural Mode@Tile Mode, Energy Saving, Smart Energy Saving, File Play with USB, Internal Memory (8 GB, System 4 GB + Available 4 GB), Wi-Fi Dongle Ready, USB Cloning, Content Scheduling, Fail over (USB, RGB, DVI, HDMI, Internal Memory)		
ENVIRONMENTAL CONDITIONS	Operating Temperature Range	0 °C to 40 °C		
	Operating Humidity Range	10 % to 80 %		
POWER	Power Supply	100-240V~, 50/60Hz		
	Power Type	Built-In Power		
POWER CONSUMPTION	Typ.	220 W	150 W	120 W
	Smart Energy Saving	110 W	80 W	70 W
STANDARD (CERTIFICATION)	Safety	UL / cUL / CB / TUV / KC		
	EMC	FCC Class "A" / CE / KCC		
	ErP / Energy Star	NA / Yes (Energy Star 7.0)		
MEDIA PLAYER COMPATIBILITY	OPS Type Compatible	Yes		
	External Media Player Attachable	Yes (MP500/MP700)		
SOFTWARE COMPATIBILITY	SuperSign W/Lite	Yes		
	SuperSign C	Yes		
ACCESSORIES	Basic	Remote controller, Power cable, DP cable, Manual, IR receiver, RS-232C cable, LAN cable, Guide bracket, Screws		
	Optional	Wall mount (Landscape: WM-L640V, Portrait: WM-P640V), OPS kit (KT-OPSA), HDBaseT (EB-B100)		

Connectivity

55VH7B, 55VM5B, 49VM5C

1. IR IN
2. RS-232C IN
3. RS-232C OUT
4. HDMI IN
5. DVI-D IN
6. DP IN
7. DP OUT
8. USB 2.0 IN
9. USB 3.0 IN
10. RGB/COMPONENT/AV IN
11. AUDIO IN
12. AUDIO OUT
13. LAN IN
14. LAN OUT

ENERGY STAR

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

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