



# Samsung SMART LED Signage

## VMR-O Series

State-of-the-art rental solution for any event

As the popularity of live events continues to grow worldwide, there is an increasing need for a digital signage solution for all types of corporate and entertainment events. Samsung's VMR-O Series is a state-of-the-art rental solution that enhances any outdoor event. Offering easy installation, servicing and disassembly, along with high durability and protection against water, dust and all outdoor elements, it supports a variety of installation types. The VMR-O Series is a reliable and efficient display, delivering truly captivating content in any outdoor environment.

### Highlights

- Brilliant image quality supported by 4500nit high brightness, regardless of weather and lighting
- Effortless installation through self-locking capability for simpler and faster setup
- Simple maintenance with full front and rear service, enabling convenient component management
- Full outdoor IP65/65 validated design, protecting against water, dust and all outdoor elements
- Designed for any installation style across a versatile range of environments

**SAMSUNG**



## Industry trend

Outdoor events are growing in popularity, but with increasing competition they are facing more challenges than ever before. Therefore, they require a solution that brings content to life in new ways, while ensuring efficiency and long-lasting performance in any environment. A trusted vendor is critical to this, one that understands the importance of an individual event, while also addressing the need for a variety of outdoor capabilities, including simple disassembly, easy installation to meet tight timelines, and high durability with protection against all outdoor elements.

## Why Samsung VMR-O?

VMR-O Series delivers the latest technology for brilliant image quality and optimum performance at a variety of demanding, live events. Simple, one-man installation through its self-locking capability, enables fast setup. All components are detachable from the power box to module, and are supported by full front and rear service, providing simple and convenient component management. The VMR-O series has full outdoor IP65/65 validated design protected against water and dust, making it the perfect solution for any installation at any outdoor event, across a versatile range of environments.



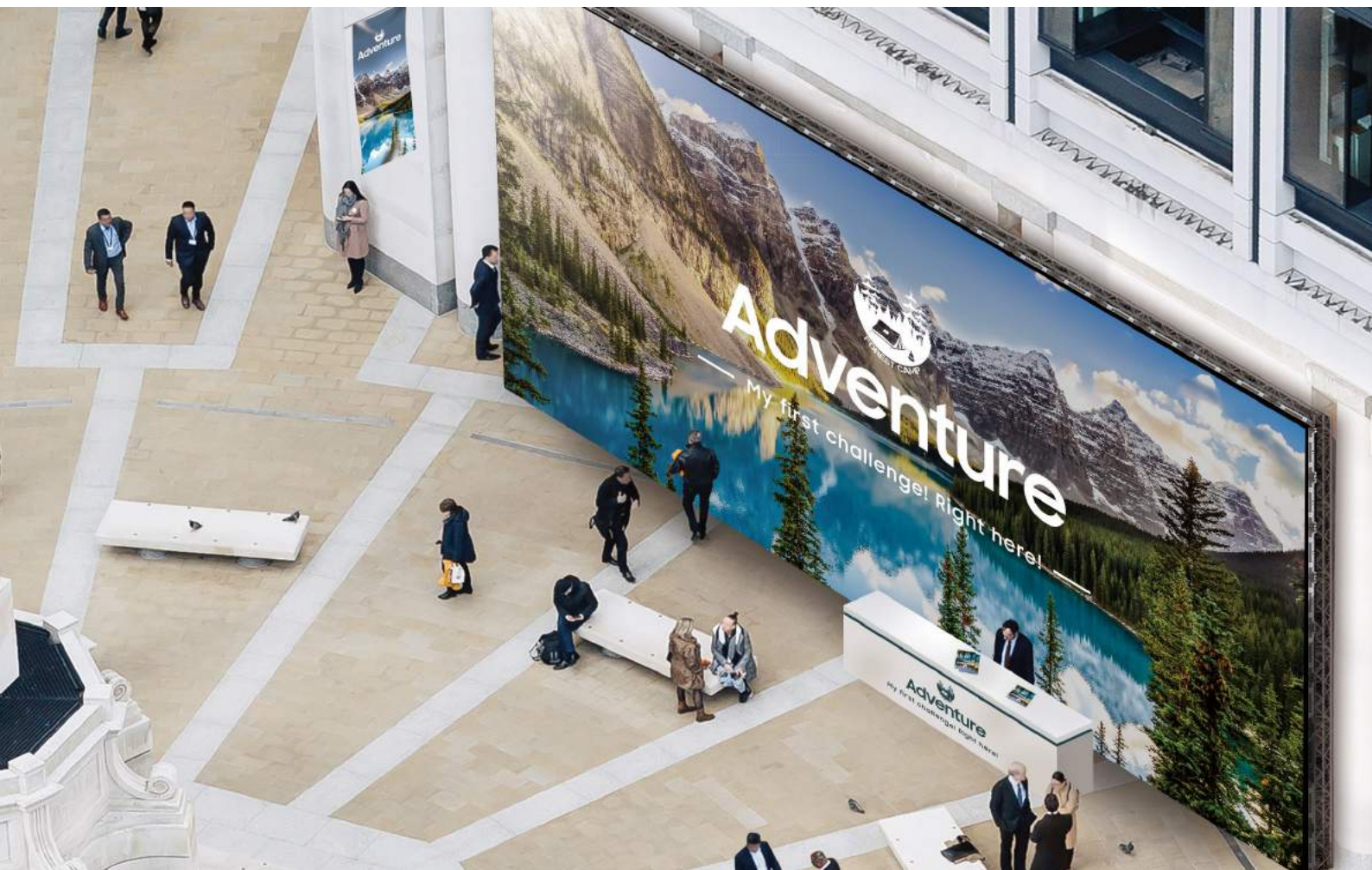
All Weather  
Conditions



Simple One-man  
Installation



Full Front & Rear  
Service

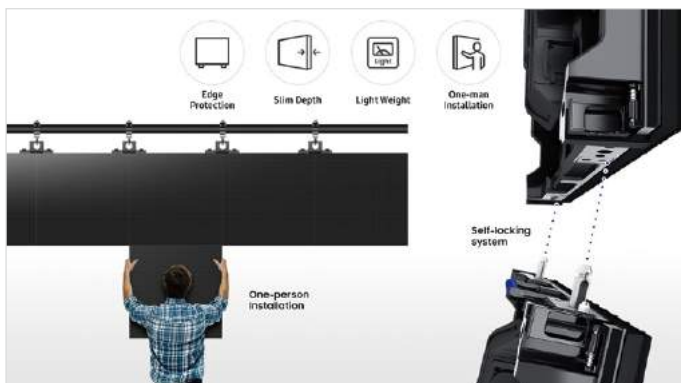


## Key features



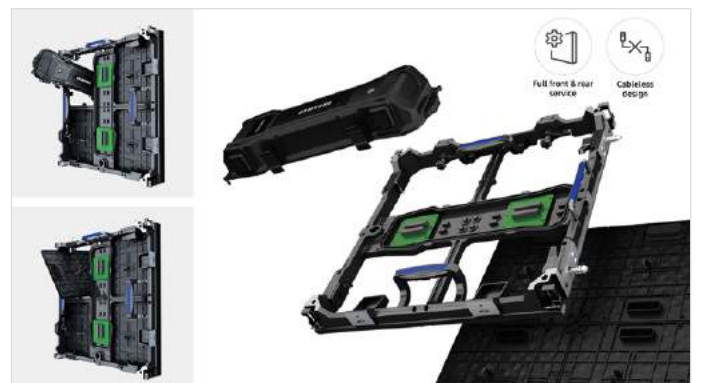
### Optimum performance in any environment

All components undergo strict testing to ensure optimum performance at all times. The VMR-O Series has full outdoor IP65/65 validated design, protecting it against water, dust and all outdoor elements, ensuring continuous operation regardless of the environment.



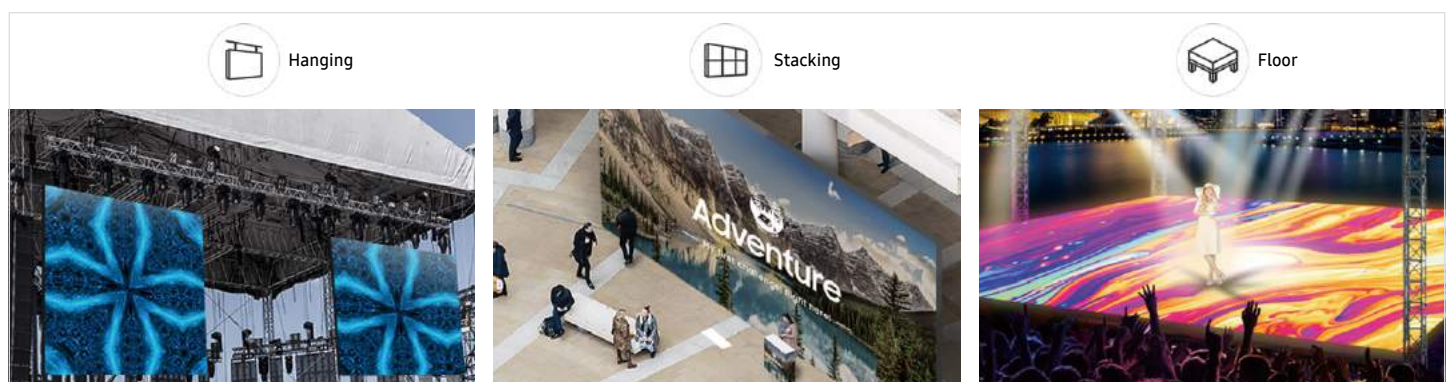
### Effortless installation

Samsung's VMR-O Series provides simple, one-man installation through its self-locking capability, enabling fast setup of the solution. In addition, its edge protection design allows the cabinet to stand firmly on the ground by itself while avoiding any damage.



### Simple, practical maintenance

With all components being detachable from the power box to module, the VMR-O Series supports full front and rear service, making it the ideal solution where space might be limited. In addition, its cable-free design enables simple and convenient component management.



### Designed for any installation style

The VMR-O Series is a perfect solution for a variety of installations at any event, from hanging to floor, to stacking. Multiple accessories are provided to help the fast and easy setup of displays across a versatile range of environments.



# Specifications

	MODEL NAME	VM029R-O	VM039R-O
Physical Parameter	Pixel Pitch	2.9 mm	3.9 mm
	Pixel Configuration	SMD 3-in-1	SMD 3-in-1
	Pixel Density (m <sup>2</sup> )	112,896 pixels/m <sup>2</sup>	65,536 pixels/m <sup>2</sup>
	Pixel Density (Panel)	28,224 pixels/panel	16,384 pixels/panel
	Physical Resolution of Module (W × H)	84 × 84	64 × 64
	Physical Resolution of Panel (W × H)	168 × 168	128 × 128
	LED Module Dimensions (mm)	250 × 250	250 × 250
	No. of Modules Per Panel (W × H)	2 × 2	2 × 2
	Panel Dimensions (W × H × D) (mm)	500 × 500 × 86	500 × 500 × 86
	Weight Per Panel	8.0 ± 0.3 kg/panel	7.9 ± 0.3 kg/panel
	Weight Per m <sup>2</sup>	32 ± 1.2 kg/m <sup>2</sup>	31.6 kg/m <sup>2</sup>
Cabinet Material	Aluminum Diecasting	Aluminum Diecasting	
Optical Parameter	Brightness (after Cal.)	≥ 4000nits	≥ 4500nits
	Contrast Ratio	4,000 : 1	4,000 : 1
	Horizontal Viewing Angle	140°	140°
	Vertical Viewing Angle	120°	120°
	Processing	16 bit	16 bit
	Colours	281 trillion	281 trillion
	Color Temperature - Default	12000K ± 500K	12000K ± 500K
Color Temperature - Adjustable	3500 ~ 12,000K	3500 ~ 12,000K	
Electrical Parameter	Average Power Consumption	72 W/panel	72 W/panel
	Max Power Consumption	240 W/panel	240 W/panel
	Max Power Consumption (w/m <sup>2</sup> )	960	960
	Max Power Consumption (w/Cabinet)	240	240
	Typical Power Consumption (w/m <sup>2</sup> )	288	288
	Typical Power Consumption (w/Cabinet)	72	72
	Max BTU (BTU/m <sup>2</sup> )	3276	3276
	Max BTU (BTU/Cabinet)	819	819
	Typical BTU (BTU/m <sup>2</sup> )	983	983
	Typical BTU (BTU/Cabinet)	246	246
	Refresh Rate	1920 Hz	1920 Hz
Operation Conditions	Operating Temp/Humidity	-30 - 50°C / 10% - 90%	-30 - 50°C / 10% - 90%
	Storage Temp/Humidity	-30 - 60°C / 10% - 95%	-30 - 60°C / 10% - 95%
	IP Rating	Front IP 65, Back IP65	Front IP 65, Back IP65
	Expected LED Lifetime (Max)	100,000 Hrs	100,000 Hrs
Certification	Certification	EMC Class A, Safety 60950-1, CE, CB, ETL, RoHS, FCC, KC, CCC, EAC	EMC Class A, Safety 60950-1, CE, CB, ETL, RoHS, FCC, KC, CCC, EAC
Service	Servicing	Front and Rear	Front and Rear
Package	Packaging Method (Flight Case)	Flight Case (6 in 1box)	Flight Case (6 in 1)
	Packaging Dimensions (W × H × D) (mm)	861(W) × 733(H) × 615(D)	861(W) × 733(H) × 615(D)
	Packaging Weight (Total)	80 kg	80 kg
Curve Installation	Angle Lock (-:concave +: convex)	Yes (-10°; -5°; 0°)	Yes (-10°; -5°; 0°)
	Curve Support (-:concave +: convex)	-90° ~ +6° (4775R)	-90° ~ +6° (4775R)
Etc. Info.	No. of LED Bin for 1 project	Single Bin	Single Bin
	D-IC Vendor	Chipone	Chipone
	D-IC part name	ICN2055	ICN2038S
	Tcon Vendor	Novastar	Novastar
	Tcon part name	A4S	A4S
	PSU Vendor	Aplus Power	Aplus Power
	PSU part name	AP216	AP216
	Connector Vendor	Seetronic	Seetronic
	Max Stacking	20 panels	20 panels
	Max Hanging	16 panels	16 panels
LED Package Name	XD-AF1516RGBI-1A1XSO	FM-Z1921 RGBA-SH	
LED Vendor	Nationstar	Nationstar	

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## SMART LED Signage

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