Samsung SMART Signage
VMR-U Series

Flexible and Dynamic Content Options with Powerful SoC Embedded Video Wall

The VMR-U by Samsung is a powerful solution to display dynamic content with visual impact to grab customer's attention and provide them with key information. This efficient SoC embedded video wall can easily transform screens from displaying standalone content to operating as one cohesive unit, without the need for additional hardware. In an ever-changing environment, the VMR-U an excellent solution for capturing and keeping your customer's attention.

Highlights

- Built-in quad core embedded system-on-chip (SoC) technology efficiently showcases both standalone and video wall content without needing an additional media player
- Samsung SMART Signage Platform (SSSP) powered by Tizen 4.0 allows for effortless real time content updates that are necessary in this fast-paced industry
- 3.5mm (B-to-B) ultra-narrow bezel allows for seamless, clear content
- MagicINFO S Player creates a smooth transition between content with no lag, black screens or gaps during playback
- Superb panel build quality helps to prevent screen darkening, light leakage and picture deterioration over time, even with 24/7 operation
- Non-glare panel delivers clear imagery under ambient lighting
- Multi-step factory calibration can deliver content with near-perfect uniformity
- Color Expert Pro Mobile provides quick and easy video wall calibration through a mobile camera

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Industry trend

Quick service restaurants want to give their customers a vivid and unique experience through lively, immersive video wall content, while also providing them with necessary information about their menu offerings and ingredients. Their display signage needs to be dynamic and flexible to fulfill both needs. The ability to switch displays from individual menu boards to an entire video wall is key in capturing the attention of a preoccupied audience in a fast-paced environment.

Why Samsung VMR-U?

VMR-U is a versatile video wall solution that can operate as standalone units and transform into one cohesive display with simple configuration. Built-in quad core embedded system-on-chip (SoC) technology allows video walls to utilize individual displays to deliver standalone content, while eliminating the need for external hardware that conventional non-SoC video wall displays need. Its ultra-narrow bezel provides a seamless and uninterrupted viewing experience that stacks of standalone signage cannot achieve. The VMR-U is the ideal solution, allowing for flexible and versatile content operation with the efficiency that QSRs and the retail industry need.

All-in-one Solution

Flexible Content Operation

TCO Saving

Seamless Viewing Experience

Key features

X4 Powerful SoC · MagicINFO S Player

X4 Powerful SoC · MagicINFO S Player

X4 Powerful SoC · MagicINFO S Player

PC-less Solution

Content Take Over

Simple Configuration

HDMI Loop Out or LAN Connection

System-on-chip (SoC)

The VMR-U features embedded system-on-chip (SoC) technology, allowing screens to easily switch between displaying individual content and operating together to display a cohesive image. This can be done with a simple HDMI loop out or LAN connection, eliminating the need for an external media player.

Samsung SMART Signage Platform (SSSP)

The Samsung SMART Signage Platform (SSSP) powered by Tizen 4.0, supports a web friendly environment for development through reinforced compatibility with web formats and standards. It allows for effortless, real-time content updates that are necessary in this fast-paced industry.
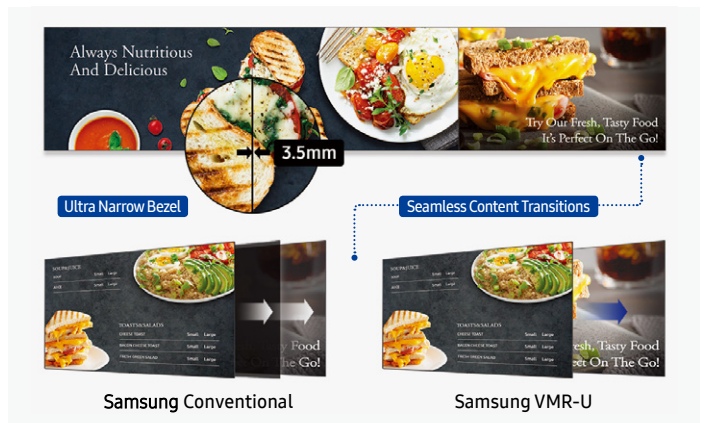

Seamless content

The VMR-U delivers seamless content with its ultra-narrow bezel, while MagicINFO S Player's powerful performance creates smooth transitions between content with no lag, black screens or gaps during playback.

*Samsung conventional display example represents operation without Tizen OS
* Black screen may briefly appear between images if content is encoded at a different frame rate.

Non-glare panel

The VMR-U features a non-glare panel that evenly distributes light across the screen to maintain content vibrancy and accuracy, with a high contrast ratio to display vivid and memorable content.

Durable

Each VMR-U display features a reinforced panel for long-term performance. This superb panel helps to prevent screen darkening, light leakage and picture deterioration, while delivering brilliant content 24/7.
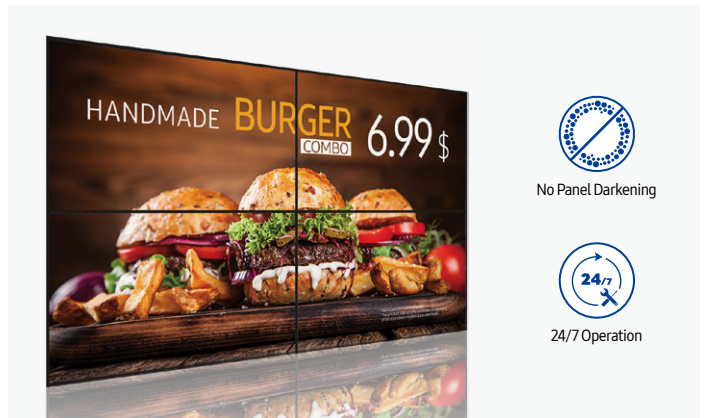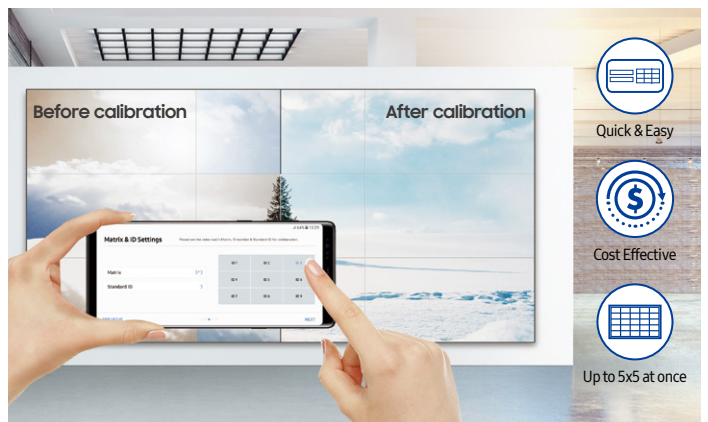

Comprehensive calibration

The unique multi-step factory calibration process by Samsung tunes video walls to uniform brightness and colour throughout multiple displays. In addition to rigorous factory calibration, users can also manage brightness and colour uniformity with the Samsung Color Expert Pro, a powerful free software program.

Color Expert Pro Mobile

The Color Expert Pro Mobile solution provides a quick and easy video wall calibration through a mobile camera. With the solution's intuitive UI, even non-expert users can adjust up to 5x5 video wall's white balance simultaneously without the need for additional equipment.

Specifications

Model			VM46R-U
Panel	Diagonal Size	Class	46"
		Measured	45.9" / 116.8cm
	Type		D-LED DID
	Resolution		1920*1080
	Pixel Pitch(mm)		0.53025mm(H)*0.53025mm(V)
	Active Display Area(mm)		1018.08mm*572.67mm
	Brightness		Max 500 cd/m2
	Contrast Ratio		3500:1
	Viewing Angle(H/V)		178/178
	Response Time(G-to-G)		8ms
	Display Colours		8 bit - 16.7M
	Colour Gamut		72%
	Operation Hour		24/7
	Haze		25% (Outer Haze 23%)
Display	Dynamic C/R		MEGA DCR
	H-Scanning Frequency		30kHz ~ 81kHz
	V-Scanning Frequency		48Hz ~ 75Hz
	Maximum Pixel Frequency		148.5MHz
Sound	Speaker Type		N/A
Connectivity	INPUT	RGB	Display Port 1.2
		VIDEO	HDMI 2.0 (2)
		HDCP	HDCP 2.2
		AUDIO	N/A
		USB	USB 2.0 x1
	OUTPUT	RGB	HDMI (Loop-out)
		VIDEO	N/A
		AUDIO	Stereo mini Jack
		Power Out	N/A
	External Control		RS232C(in/out), RJ45
	External Sensor		Detachable type(IR)
	Tuner		N/A
Power	Type		Internal
	Power Supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz
	Power Consumption	Max[W/h]	143
		Typical[W/h]	96
		BTU(Max)	488
		Sleep mode	less than 0.5W
		Off mode	less than 0.5W
Mechanical Spec	Dimension (mm)	Set	1022.1x 576.6 x 97.4
		Package	1153 X 724 X 295
	Weight (kg)	Set	15.9kg
		Package	21.7kg
	VESA Mount		600 * 400 (mm)
	Protection Glass		N/A
	Stand Type		N/A
	Bezel Width (mm)		2.3mm(U/L), 1.2mm(R/B)
Operation	Operating Temperature		0℃~ 40℃
	Humidity		10~80%
Feature	Key		Ultra Narrow Bezel
	Special		ACM Support(Advanced Color Management), Auto Source Switching & Recovery, Haze 25%, Temperature Sensor, RS232C/RJ45 MDC,Plug and Play (DDC2B), Pivot Display, Image Rotation, Button Lock, HDMI Digital Daisy Chain(Supporting UHD Resolution, HDCP support), Smart F/W update, Clock Battery(80hrs Clock Keeping)
	Internal Player (Embedded H/W)	Processor	Coretex A72 1.7GHz Quad-Core CPU
		On-Chip Cache Memory	L1 Instruction Cache : 48KB / L1 Data Cache : 32KB / L2 Cache : 2MB
		Clock Speed	1.7GHz
		Main Memory Interface	2.5GB, LPDDR4 1.5GHz 64bit
		Graphics	Graphic resolution : 1920x1080 - Supports OpenGL ES
		Storage (FDM)	8GB (3.88GB Occupied by O/S, 4.12GB Available)
		Multimedia	Video Decoder - MPEG-1/2/4, H.263, H.264/AVC, UHD // H.264/AVC - VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 Audio Decoder
		IO Ports	USB 2.0
		Operating System	Tizen 4.0 (VDLinux)
Certification	Safety		UL (USA) : UL 60950-1 / CSA (Canada) : CSA C22.2 No. 60950-1 / TUV (Germany) : EN60950-1 / NEMKO (Norway) : EN60950-1 KC (Korea) : K60950-1 CCC (China) : GB4943.1-2011 / PSB (Singapore) : IEC60950-1 / GOST (Russia) : IEC60950-1, EN55022 / SIQ (Slovenia) : IEC60950-1, EN55022 PCBC (Poland) : IEC60590-1, EN55022 / NOM (Mexico) : NOM-019-SCFI-1993 / IRAM (Argentina) :IEC60950-1 / SASO (Saudi Arabia) : IEC60950-1
	EMC		FCC (USA) FCC Part15, Subpart B class A / CE (Europe) EN55022, EN55024 / VCCI (Japan) V-3 (CISPR22) / KCC (Korea) :KN22, KN24 BSMI (Taiwan) : CNS13438 (CISPR22) / C-Tick (Australia) : AS/NZS3548 (CISPR22) / CCC(China) :GB9254-2008, GB17625.1-2012
	IP rating		N/A
	Environment		N/A
Accessories	Included		Quick Setup Guide, Warranty Card, HDMI cable, stereo to DB9 cable, Power Cord, Remote Controller, Batteries, External IR
	Optional	Stand	
		Mount	WMN-46VD
		Specialty	N/A
	Media Player Option Type		SBB(Slide In)

SMART Signage

For more information about Samsung SMART Signage VMR-U Series Displays, visit
www.samsung.com/.ca/business or www.samsung.com/displaysolutions

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