

Samsung UEC Series Videowall displays

Diverse LED displays for dynamic video wall designs



Highlights

- Eliminate the need for a separate PC to run displays by using built-in Samsung Smart Signage Platform (SSSP) technology and embedded MagicInfo™ software
- Install and configure displays in confined spaces more easily with edge-type LED technology, which yields a narrower depth, lighter weight and lower energy use
- Improve overall appearance with factory tuning, color calibration and Advanced Color Management (ACM) software
- Increase display flexibility by using simplified image rotation with automatic ratio settings
- Establish powerful connectivity with DisplayPort® (DP) 1.2 multistreaming options that support up to 100 displays

Promote products and services with a superb display

Merchandisers want to give their customers an immersive shopping experience. Many are installing video walls as a way to provide an impressive ambiance and to increase revenues. Because most retailers have limited space, they are seeking a large format display (LFD) that enhances its surroundings without overwhelming them. The preferred LFD enables retailers to create near-seamless video walls with high quality picture and simplified content management.

Samsung UED video displays are an ideal choice for many retailers because managers can configure the displays based on space and can control display content.

With 46-inch and 55-inch models available, the slim-bezel displays function as part of a video wall or as standalone LFDs. Store owners and managers can create captivating video walls in myriad configurations. Full high definition (FHD) picture quality further attracts potential customers.

A flexible way to display distinctive content

Increase display options with flexible SSSP

SSSP eliminates the need to purchase a PC to control content displayed over video walls of various sizes and configurations. The platform supports dynamic screen editing and split screens, showing multiple content types at the same time.

Built within a microchip, the internal media player includes the following components:

- A 1 GHz dual core CPU with a cache size of 512 KB
- 1 GB double data rate 3 (DDR3) dual 32-bit memory
- A video processor with full codec, high performance Microsoft® Windows® Media Video (WMV), MP4 and H.264 capabilities
- A storage solid state disk (SSD) of 8 GB (2 GB is occupied by the OS)
- Professional signage software with MagicInfo™ S Premium

By providing an easier way to create video walls in unconventional configurations, SSSP helps create a more interesting feature.

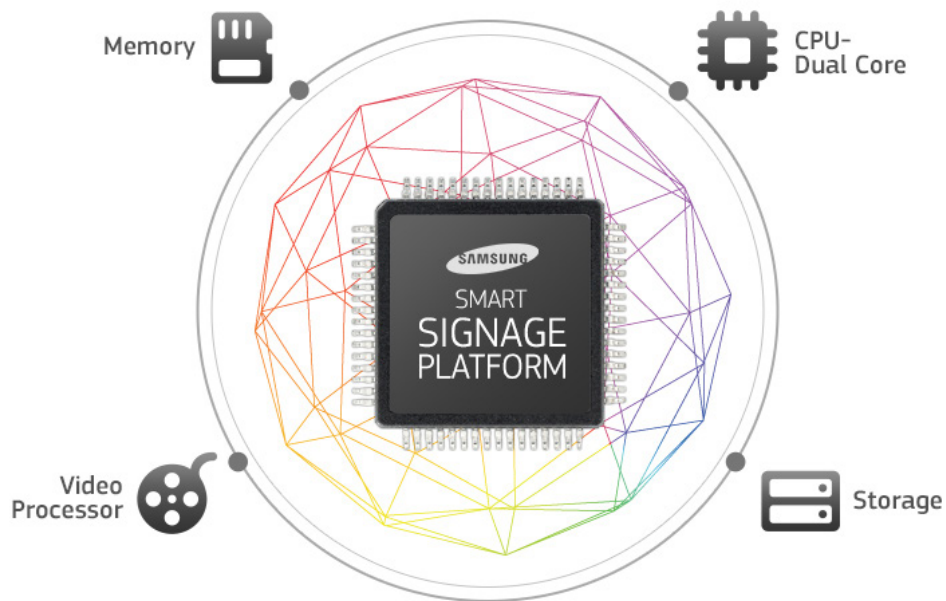


Figure 1. An integrated solution to provide a new digital signage experience

Build video walls in small spaces with extensive installation options

Multiple installation options help retailers design video walls wherever needed, even behind display cases. Edge LED technology makes a single display or a wall of displays more comfortable to work around because fewer lamps are in use. With a depth as shallow as 29.9 mm (1.18 in.) and light weight, UEC Series displays enable businesses to create video walls within limited spaces.

Edge LED technology is mercury free and produces less heat than traditional LCD technology. Samsung technology also offers a dimming solution that generates deeper black tones by controlling the LED BLU (backlight unit). Based on internal Samsung testing, LED BLU technology consumes an average of 30 percent less power than cold cathode fluorescent lamp (CCFL) LCD technology.



Figure 2. Samsung LED backlight technology uses less power for optimal energy efficiency.

Create an array of screens with vibrant pictures and text

UEC Series displays can be arranged to construct exceptional video walls. Refined color calibration, improved picture quality, a bezel-to-bezel width of 11 mm (0.43 in.) and vivid high-resolution images create a pleasurable viewing experience.

Increase color consistency with enhanced color calibration

The integrated factory color tuning process has been refined for white balancing and color difference compensation, resulting in improved color temperature matching. The ACM software is also enhanced for usability and performance. The calibration speed is higher and the user interface (UI) is augmented for more precise color management. Light reflection, absorption and scatter are significantly reduced with the help of the Ultra Clear Panel. As a result of Ultra Clear Panel technology, images are brighter and sharper, which ultimately improves content visibility.



Figure 3. Improved video wall color calibration for color uniformity

Near-seamless video wall designed for creative installation

Maintain image ratios when changing orientation

UEC Series displays offer pivoting capability and image rotation software that can change image orientation from portrait to landscape for greater display flexibility. For convenience when rotating images, two ratio options are available: original ratio or auto full-sizing ratio. Users do not need to rotate a picture in the software to make it appear correctly in a different orientation.

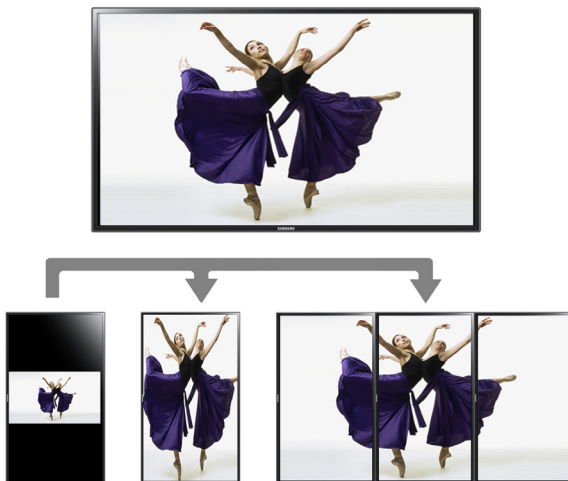


Figure 4. Portrait to landscape image rotation enhances usability with no loss of resolution.

Daisy-chain multiple displays without the need for additional equipment

Businesses can join up to 100 displays without losing picture quality using DP 1.2 multistream support. The UEC Series displays offer High-bandwidth Digital Content Protection (HDCP) daisy-chain capabilities. By supporting HDCP daisy-chaining, UEC models can display HDCP content such as LiveTV™ or Blu-ray Disc™ content without an HDCP distributor. The HDCP daisy chain function helps reduce the cost of deploying multiple displays throughout an organization.

By using the DP 1.2 port, businesses can display content in ultra-high definition (UHD) resolution of 3,840 x 2,160 in 2 x 2 video walls. The port helps maintain UHD quality without the need for additional equipment. With no complex distributors' equipment to connect, a digital daisy chain has a maximum loop out of 100 displays.

UEC

46" / 55"



Connectors



- 1. RS232C IN
- 2. RS232C OUT
- 3. IR / AMBIENT SENSOR IN
- 4. AUDIO OUT
- 5. RGB / DVI / HDMI / AV / COMPONENT / AUDIO IN

- 6. USB
- 7. HDMI IN 2
- 8. DP IN
- 9. HDMI IN 1
- 10. DVI IN

- 11. DP OUT
- 12. RGB IN
- 13. COMPONENT IN / OUT
- 14. RJ45

Samsung UEC Series video displays

Specifications

		UE46C	UE55C	
Panel	Diagonal size	46 in.	55 in.	
	Type	240 Hz e-LED BLU		
	Resolution	1,920 x 1,080 (16:9)		
	Pixel pitch (H x V)	0.154 mm (H) x 0.461 mm (V) (0.0061 in. x 0.018 in.)	0.210 mm (H) x 0.630 mm (V) (0.0083 in. x 0.25 in.)	
	Active display area (H x V)	1,018.08 mm (H) x 572.67 mm (V) (40.08 in. x 22.55 in.)	1,209.6 mm (H) x 680.4 mm (V) (47.62 in. x 26.79 in.)	
	Brightness (typ)	500 nit		
	Contrast ratio	5,000:1		
	Viewing angle (H x V)	178:178		
	Response time (G-to-G)	4 ms		
	Display colors	10 bit dithering – 1.07 billion		
	Color gamut	72%		
Connectivity	Input	RGB	Analog D-sub, DVI-D , DisplayPort 1.2	
		Video	HDMI1, HDMI2, Component (CVBS Common)	
		Audio	Stereo mini jack	
	Output	RGB	DP 1.2 (loop-out)	
		Video	-	
		Audio	Stereo mini jack	
	External control	RS-232C (in and out) through stereo jack, RJ45		
Power	Type	Internal		
	Power supply	AC 100 - 240 V - (+/- 10%), 50/60 Hz		
	Power consumption	Max (W/h)	132	154
		Typical (W/h)	89	103
BTU (Max)		450.12	525.14	

Samsung UEC Series video displays

Specifications

			UE46C	UE55C
Mechanical specifications	Dimension	Set	1030.3 X 584.8 X 29.9	1221.8 X 692.6 X 29.9
	Weight	Set	11.6	15.4
	VESA mount		400 mm x 400 mm (15.74 in. x 15.75 in.)	
	Stand type		Foot stand (optional)	
	Media player option type		Embedded, SBB-C (optional)	
	Bezel width		5.5 mm	
Features	Key		LED slim video wall	
	Special		ACM support, magic clone drive to USB, auto source switching and recovery, lamp error detection, Super Clear Coating, temperature sensor, RS-232CC and RJ45 MDC, plug and play (DDC2B), PIP and PBP, up to 10 x 10 video wall, Pivot Display, Image Rotation, Button Lock, DP 1.2 digital daisy chain (supporting 2 x 2 UHD resolution, HDCP support), Smart Scheduling, Smart F/W update, clock b battery (80 hours clock keeping), built-in MagicInfo™ (Lite, Premium-S and Videowall-S)	

Legal and additional information

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For more information

For more information about Samsung UEC Series video displays, visit www.samsung.com/business.



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2013-07