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For more information

For more information about the Samsung UDC, UDC-B and UEC Series Video Displays, visit www.samsunglfd.com



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Samsung Video Wall Display (UDC, UDC-B, UEC Series)

Powerful and versatile LED displays for creating vibrant video walls



A versatile and distinctive way to gain customer attention

Promote messages or images using the Samsung UDC, UDC-B and UEC Video Displays

Retail clients, restaurants, conference centers, shopping malls and hotels want to stand out from their competition. Owners and managers are looking for new and diverse ways to publicize their goods and services while maintaining creative control along with cost control.

Samsung LED Large Format Displays (LFDs) let clients create video walls that match their imaginations for a reasonable cost. The UDC, UDC-B and UEC Series displays are an optimal choice because clients can configure them based on need and control display specifications. With various size options available, clients can create eye-catching video walls in myriad configurations. The UDC and UEC LFDs are available in 46 in. and 55 in. models. The UDC-B, is available in 46 in. only.

Clients can design near-contiguous video walls with full high definition (FHD) picture quality. The UEC Series offers narrow bezels and the UDC and UDC-B Series have ultra-narrow bezels to facilitate an overall message. The monitors are designed for ease of installation with narrow profiles for various configuration options. Samsung LED backlight technology helps reduce costs, consuming 40 percent less power on average compared with cold cathode fluorescent lamp (CCFL) LCDs during internal testing. The LED LFDs are free from harmful materials.

The UDC, UDC-B and UEC Series displays help clients:

- **Grab the attention of potential customers with uniform color.** Augmented color calibration for color uniformity with enhanced factory color tuning helps match the color temperature across the display or multiple displays.
- **Control the display and content with the Samsung Smart Signage Platform.** Enhanced built-in functions eliminate the need to purchase a separate PC to run the displays.
- **Customize installations of UDC, UDC-B and UEC Series displays to support a business.** Create a video wall that meets company objectives with versatile installation options and accessories.
- **Reduce expenses while advertising goods and services through a striking medium.** Save on energy costs with Samsung LED backlight technology and DisplayPort® (DP®) 1.2 multistream support.

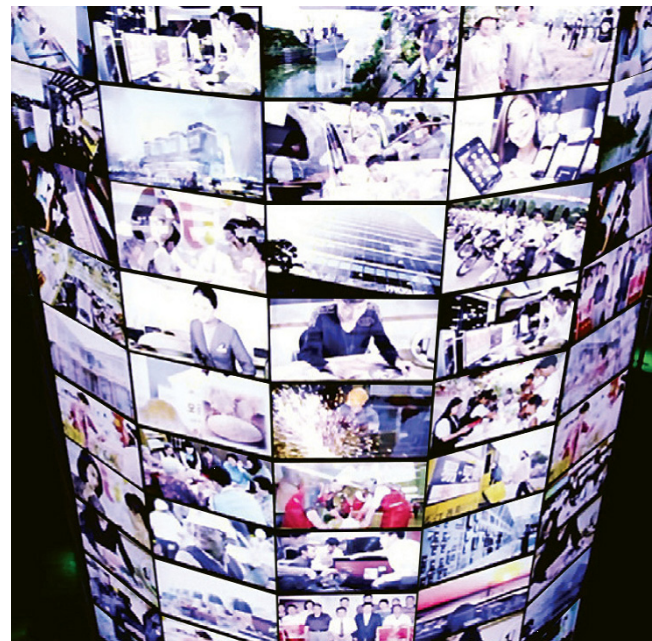


Figure 1. Eye-catching video walls enable users to publicize their goods and services while maintaining creative control

Overall message with narrow and ultra-narrow bezels

The UDC, UDC-B and UEC Series displays feature narrow and ultra-narrow bezels for near-seamless video walls. The UDC and UDC-B models have an ultra-narrow bezel design that enables 5.5mm(0.22 in.) bezel width from panel to panel. The UEC model has a narrow bezel of 11 mm (0.43 in.).

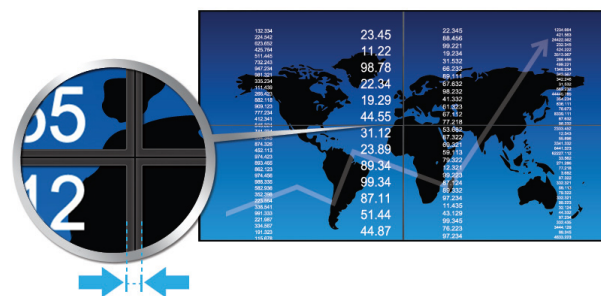


Figure 2. Narrow and ultra-narrow bezels for a more integrated display

Balanced image quality with color uniformity

Capture customer attention with clear, bright text and images

UDC, UDC-B and UEC Series LFDs are designed to help businesses with limited space create memorable video walls. Improved video wall color calibration, upgraded picture quality, ultra-narrow bezels and clearly displayed high-resolution images create an enjoyable viewing experience.

Improved video wall color calibration for color uniformity

Factory color calibration press has been enhanced for white balancing and color difference compensation. The result is color temperature matching.

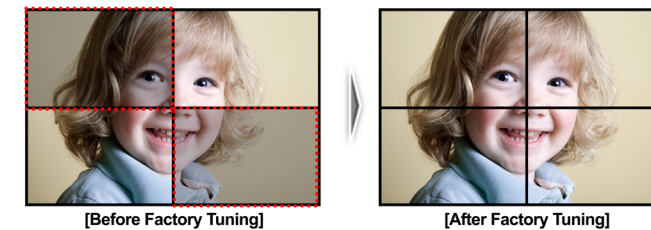


Figure 3. Side-by-side comparison of before and after factory color tuning

Advanced Color Management has also been improved for usability and performance. The calibration speed was increased and the user interface (UI) was enhanced for more detailed color management. The Advanced Color Management software, available for the UDC, UDC-B and UEC Series.

With the Factory Color Calibration and ACM Software, Samsung customers save on TCO by eliminating their investment in color management solutions and effort to manage uniformity of video walls. They also increase operational efficiency and business productivity with a more uniform video wall.

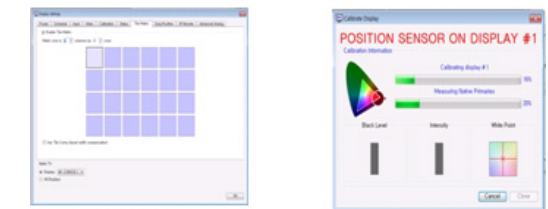


Figure 4. Enhanced color calibration UI

Factory Color Calibration and enhanced ACM s/w helps uniform color difference and detailed color management.

A built-in media player for flexible content display options

Broaden display options with the built-in Samsung Smart Signage Platform

The Samsung Smart Signage Platform is available for UDC and UEC Series LFDs. The platform eliminates the need to purchase a separate PC to control content displayed over video walls of various sizes and configurations. The platform supports dynamic screen editing and split screens, showing different content at the same time.

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

- A 1 GHz dual core central processing unit (CPU) with and 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
- Storage (SSD) of 4 GB to 8 GB (2 GB is occupied by the OS)
- Professional signage software with MagicInfo™ S Premium

With the Samsung Smart Signage Platform, UDC and UEC can be set up in diagonal direction. This unique function of Samsung Video Wall Display enables users to create more unique and creative video wall than any other.

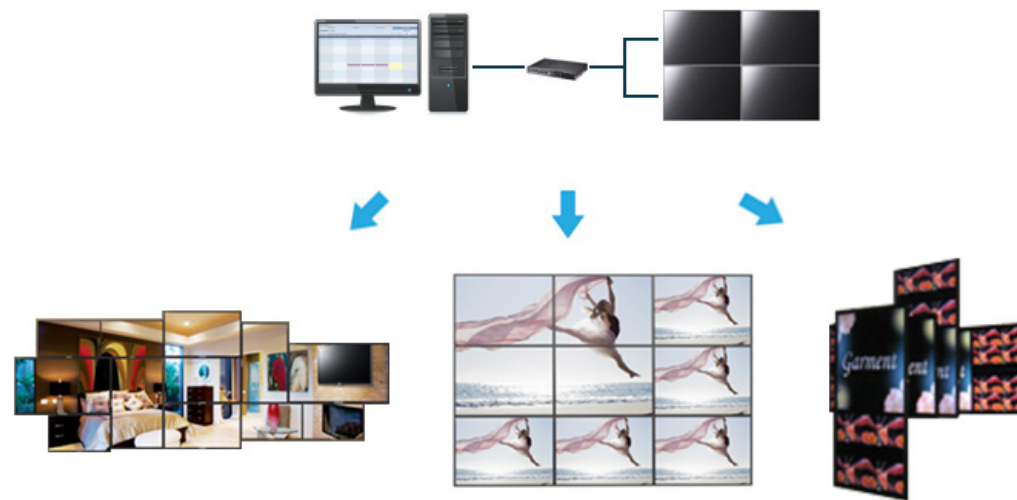


Figure 5. Samsung Smart Signage Platform makes a business message stand out from the competition.

Simplify connection between multiple displays and vivid image with backlight Technology

Connect multiple displays with DP 1.2 multi-stream support

The UDC and UEC Series of displays offer High-bandwidth Digital Content Protection (HDCP) daisy. By supporting HDCP Daisy Chain can display HDCP contents such as Live TV or Blue Ray disk contents without HDCP distributor. This HDCP Daisy Chain function helps user to minimize cost to deploy multiple displays in their organization.

By using DP 1.2 port, user also can display ultra-high definition (UD) resolution of 3,840 x 2,160 contents in 2x2 video wall without loss of UD quality also without additional equipments.

With no complex distributors equipment to connect, a digital daisy chain has a maximum loop out of 100 displays.



Figure 6. Ultra-high definition (UD) resolution of 3,840 x 2,160 contents in 2x2 video wall

Upgraded picture quality for a clear and vivid image

For UDC and UEC Series screens, Samsung technology offers a dimming solution that generates deeper black tones by controlling the LED BLU (backlight unit). The overall picture quality of the displays is heightened, providing a sharp and vibrant image. The backlight dimming technology consumes 30 percent less power than CCFL LCDs, based on an internal Samsung test. The technology is also free of harmful materials, such as mercury or halogen, contributing to a cleaner environment.



Figure 7. Samsung LED backlight technology

Near-seamless video wall with brilliant mechanical design

Install the displays in tight spaces with ingenious installation choices

The displays offer multiple installation options that allow businesses to create an individualized video wall. Companies can create video walls in limited space, use a wall or a floor stand and position displays in different configurations.

Construct a video wall in areas where space is limited

The narrow depth of the UDC, UDC-B and UEC Series of displays allows for placement in tight areas, such as behind counters and display cases. The UDC and UDC-B models offer slim profiles of 96 mm (3.78 in.) and the UEC model has a depth of only 29.9 mm (1.18 in.).



Figure 8. Slim profiles allow installing the displays in narrow areas.

Mount the displays to the wall or floor stand

Versatile installation accessories, such as a floor stand, a mobile Internet device (MID) and wall brackets, provide even more display options. Using this modular approach also enables clients to find the exact Samsung LFD to fit their needs cost-effectively.



Figure 9. Optional floor stands and expandable wall mounts provide various custom configurations to fit almost any need.

Complex distributors are no longer necessary

Rotate images more economically with Image Rotation

The UDC and UEC Series displays offer Image Rotation, providing image orientation rotation from portrait to landscape for greater display flexibility. For convenience when rotating the image, two ratio options are available: original ratio or auto full sizing ratio. Image quality is preserved when the images are rotated, with no loss of ratio.



Figure 10. Image rotation from portrait to landscape enhances usability with no loss of resolution.

Image Rotation enhances the message with two ratio options: original ratio and automatic full-size ratio.

Control displays remotely with mixed connectivity

Samsung UDC and UEC LED displays offer powerful connectivity, even when working with RJ45 and RS-232 connections. Competitor displays can operate only an RJ45 or RS-232 connection. With the Samsung line of LED displays, both network connections can be used simultaneously. Using a DVI loop out, a single display image can be shared with nearby displays. This feature eliminates the need to purchase separate video signal distributors for each display, further reducing equipment costs.



Figure 11. Samsung UDC and UEC LED displays enable RJ45 and RS-232 connectivity simultaneously.

Create and display attention-getting messages with Samsung LFDs

Samsung UDC, UDC-B and UEC Series LED LFDs help companies stir client interest with vibrant images and clear, crisp text. The displays help control costs while advertising through a distinctive medium with:

- Uniform brightness and color temperatures across the display, with color tuning and calibration software
- Virtually uninterrupted video walls with narrow and ultra-narrow bezels
- FHD resolution with high-quality, ultra-bright images
- Samsung LED backlight technology for UDC and UEC Series displays, which offers a dimming solution to show deeper black tones by controlling the LED BLU
- The Samsung Smart Signage Platform for UDC and UEC Series screens, which eliminates the need to purchase a separate PC to run content displayed over a video wall
- Auto Image Rotation, which allows businesses to change the picture of UDC and UEC Series monitors without changing the physical setup
- DP® 1.2 multistream support for ultra-high definition on UDC and UEC Series displays

Features and benefits

Features	Benefits
Color calibration for color uniformity	Enhance the video color ratio with matched brightness and color temperatures.
Samsung backlight technology	Upgrade picture quality for a clear and vibrant image.
Narrow and ultra-narrow bezels	Create near-continuous video walls with fewer distractions.
FHD resolution of 1,920 x 1,080	Display high-resolution images with clarity, regardless of how much an image is enlarged.
Samsung Smart Signage Platform	Support dynamic screen editing and split screens, showing different content at the same time and creating various-sized video walls.
Auto Image Rotation	Eliminate the need to create new content or reprogram existing content when pivoting content from landscape to portrait mode and vice-versa.
Slim profiles	Create video walls in areas with limited space.
DP 1.2 multistream support	Support UD (4 K x 2 K) without additional distributors.

Specifications

Model		UD46C	UD55C	UD46C-B	
Panel	Diagonal Size	46"	55"	46"	
	Type	D-LED DID	D-LED DID	D-LED DID	
	Resolution	1920*1080	1920*1080	1920*1080	
	Pixel Pitch(mm)	0.53025mm(H)*0.53025mm(V)	0.63mm(H) * 0.63mm(V)	0.53025mm(H)*0.53025mm(V)	
	Active Display Area(mm)	1018.08mm*572.67mm	1209.6 * 680.4mm	1018.08mm*572.67mm	
	Brightness(Max.)		700 cd/m2	450 cd/m2(typ)	
	Contrast Ratio	3500:1	3500:1	3500:1	
	Viewing Angle(H/V)	178/178	178/178	178/178	
	Response Time(G-to-G)	8ms	8ms	6.5ms	
	Display Colors	8 bit - 16.7M	8 bit - 16.7M	8 bit - 16.7M	
Color Gamut	68%	68%	68%		
Connectivity	INPUT	RGB	Analog D-SUB, DVI-D, Display Port 1.2	Analog D-SUB, DVI-D, Display Port 1.2	
		VIDEO	HDMI1, HDMI2, Component(CVBS Common)	HDMI1, HDMI2, Component(CVBS Common)	
		AUDIO	Stereo mini Jack	Stereo mini Jack	
	OUTPUT	RGB	DP1.2(Loop-out)	DP1.2(Loop-out)	
		AUDIO	Stereo mini Jack	Stereo mini Jack	
		EXTERNAL CONTROL	RS232C(ir/out), RJ45	RS232C(ir/out), RJ45	
EXTERNAL SENSOR	Ditachable type(IR, Ambient)	Ditachable type(IR, Ambient)			
Power	Type	Internal	Internal	Internal	
	Power Supply	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	
	Power Consumption	Max[W/h]	To be fixed	To be fixed	To be fixed
		Typical[W/h]	To be fixed	To be fixed	To be fixed
		BTU(Max)	To be fixed	To be fixed	To be fixed
		Sleep Mode	less than 0.5W	less than 0.5W	less than 0.5W
		Off Mode	less than 0.5W	less than 0.5W	less than 0.5W
Mechanical Spec	Dimension (mm)	Set	1023.8mm X 578.4mm X 96.0mm (To be fixed)	1215.3mm X 686.1mm X 96.0mm (To be fixed)	
		Package	1160.0mm X 707.0mm X 295.0mm	1355.0 x 820.0 x 310.0mm	
	Weight (kg)	Set	18.0Kg	24.0kg	To be fixed
		Package	25.0Kg	35.0kg	To be fixed
	VESA Mount	600*400mm	600*400mm	600*400mm	
	Media Player Option Type	Embedded, SBB-A(Slide In)	Embedded, SBB-A(Slide In)	Embedded, SBB-A(Slide In)	
Bezel Width (mm)	3.7mm(U/L), 1.8mm(R/B)	3.7mm(U/L), 1.8mm(R/B)	3.4mm(U/L), 2.0mm(R/B)		
Feature	Key	Super Narrow Bezel	Super Narrow Bezel	Super Narrow Bezel	
	Special	ACM Support(Advanced Color Management), Magic Clone(to USB), Auto Source Switching & Recovery, Lamp Error Detection, Anti Retention(Haze 44%), Temperature Sensor, RS232C/RJ45 MDC, Plug and Play (DDC2B), PIP/PBP, Video Wall(10x10), Pivot Display, Image Rotation, Button Lock, DP 1.2 Digital Daisy Chain(Supporting 2x2 UHD Resolution, HDCP Support), Smart Scheduling, Smart F/W update, Clock Battery(80hrs Clock Keeping) Built In MagicInfo(Lite, Premium-S, Videowall-S)	ACM Support(Advanced Color Management), Magic Clone(to USB), Auto Source Switching & Recovery, Lamp Error Detection, Anti Retention(Haze 44%), Temperature Sensor, RS232C/RJ45 MDC, Plug and Play (DDC2B), PIP/PBP, Video Wall(10x10), Pivot Display, Image Rotation, Button Lock, DP 1.2 Digital Daisy Chain(Supporting 2x2 UHD Resolution, HDCP Support), Smart Scheduling, Smart F/W update, Clock Battery(80hrs Clock Keeping) Built In MagicInfo(Lite, Premium-S, Videowall-S)	Auto Source Switching & Recovery, Lamp Error Detection, Anti Retention(Haze 11%), Temperature Sensor, RS232C/RJ45 MDC, Plug and Play (DDC2B), PIP/PBP, Video Wall(10x10), Pivot Display, Button Lock, DVI Digital Daisy Chain, Smart Scheduling, Smart F/W update, Clock Battery(80hrs Clock Keeping)	

Model		UD46C	UD55C	UD46C-B
Feature	Internal Player (Embedded H/W)	Processor	Cortex-A9 1GHz Dual Core CPU	Cortex-A9 1GHz Dual Core CPU
		On-Chip Cache	L1 (I/D) : 32KB / 32KB	L1 (I/D) : 32KB / 32KB
		Memory	L2 (Unified) : 512KB	L2 (Unified) : 512KB
		Clock Speed	1GHz CPU Dual	1GHz CPU Dual
		Main Memory	1GB	1GB
		Interface	Dual 32bit DDR3-667 (1333MHz)	Dual 32bit DDR3-667 (1333MHz)
		Graphics	2D & 3D Graphics Engine - Up to 1920x1080. 32bpp - Supports OpenGL ES	2D & 3D Graphics Engine - Up to 1920x1080. 32bpp - Supports OpenGL ES
		Storage (FDM)	8GB (To be fixed) (2GB Occupied by O/S, 6GB Available,)	8GB (To be fixed) (2GB Occupied by O/S, 6GB Available,)
		Multimedia	Video Decoder - MPEG-1/2, H.264/AVC (Dual) - VC-1, JPEG, PNG Audio DSP (Decoder) - AC3 (DD), MPEG, DTS and etc.	Video Decoder - MPEG-1/2, H.264/AVC (Dual) - VC-1, JPEG, PNG Audio DSP (Decoder) - AC3 (DD), MPEG, DTS and etc.
		Host Bus	To be fixed	To be fixed
IO Ports	USB 2.0	USB 2.0		
Operating System	Linux	Linux		
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) : GB 4943-2001 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	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) : GB 4943-2001 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	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) : GB 4943-2001 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 Part 15, Subpart B class B 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):GB 9254-2008, GB 17625.1-2003	FCC (USA) FCC Part 15, Subpart B class B 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):GB 9254-2008, GB 17625.1-2003	FCC (USA) FCC Part 15, Subpart B class B 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) :GB 9254-2008, GB 17625.1-2003
Environment	ENERGY STAR 6.0 (USA)	ENERGY STAR 6.0 (USA)	ENERGY STAR 6.0 (USA)	
accessories	Included	Quick Setup Guide, Warranty Card, Application CD, D-Sub cable, Power Cord, Remote Controller, Batteries,	Quick Setup Guide, Warranty Card, Application CD, D-Sub cable, Power Cord, Remote Controller, Batteries,	Quick Setup Guide, Warranty Card, Application CD, D-Sub cable, Power Cord, Remote Controller, Batteries,
	Mount Specialty	WMN-4655MD MID-UD46FS	WMN-4655MD MID-UD55FS	WMN-4655MD MID-UD46FS
Media Player	CPU			
	N/B			
	S/B			
	GPU			
	FDM/HDD/SSD	SBB-A(SIM Type)	SBB-A(SIM Type)	SBB-A(SIM Type)
	Memory			
	Ethernet			
Connectivity	USB			
	Output			
	Others			

Specifications

Model		UE46C	UE55C
Panel	Diagonal Size	46"	55"
	Type	240Hz e-LED BLU	240Hz e-LED BLU
	Resolution	1920x1080 (16:9)	1920x1080 (16:9)
	Pixel Pitch(mm)	0.15375(H) X 0.46125(V)	0.210(H) X 0.630(V)
	Active Display Area(mm)	1018.08(H) X 572.67(V)	1209.6(H) X 680.4(V)
	Brightness(Typ.)	450nit	450nit
	Contrast Ratio	5000:1	5000:1
	Viewing Angle(H/V)	178:178	178:178
	Response Time(G-to-G)	4ms	4ms
	Display Colors	10bit Dithering - 1.07Billion	10bit Dithering - 1.07Billion
Color Gamut	73%	73%	
Connectivity	INPUT	RGB	Analog D-SUB, DVI-D, Display Port 1.2
		VIDEO	HDMI1, HDMI2, Component(CVBS Common)
	OUTPUT	AUDIO	Stereo mini Jack
		RGB	DP1.2(Loop-out)
Power	EXTERNAL CONTROL	Stereo mini Jack	Stereo mini Jack
	Type	RS232C(in/out) thru stereo jack, RJ45	RS232C(in/out) thru stereo jack, RJ45
	Power Supply	AC 100 - 240 V- (+/- 10 %), 50/60 Hz	AC 100 - 240 V- (+/- 10 %), 50/60 Hz
	Power Consumption	To be fixed	To be fixed
Mechanical Spec	Dimension (mm)	1030.4 X 584.8 X 29.9 (To be fixed)	1221.8 X 692.6 X 29.9 (To be fixed)
	Weight (kg)	To be fixed	To be fixed
	VESA Mount	400*400mm	400*400mm
	Stand Type	Foot Stand (Optional)	Foot Stand (Optional)
	Media Player Option Type	Embedded, SBB-A(Attached)	Embedded, SBB-A(Attached)
	Bezel Width (mm)	5.5mm	5.5mm
Feature	Key	LED Slim Video wall	LED Slim Video wall
	Special	ACM Support(Advanced Color Management), Magic Clone(to USB), Auto Source Switching & Recovery, Lamp Error Detection, Super Clear Coating, Temperature Sensor, RS232C/RJ45 MDC, Plug and Play (DDC2B), PIP/PBP, Video Wall(10x10), Pivot Display, Image Rotation, Button Lock, DP 1.2 Digital Daisy Chain (Supporting 2x2 UHD Resolution, HDCP Support), Smart Scheduling, Smart F/W update, Clock Battery(80hrs Clock Keeping) Built In MagicInfo(Lite, Premium-S, Videowall-S)	ACM Support(Advanced Color Management), Magic Clone(to USB), Auto Source Switching & Recovery, Lamp Error Detection, Super Clear Coating, Temperature Sensor, RS232C/RJ45 MDC, Plug and Play (DDC2B), PIP/PBP, Video Wall(10x10), Pivot Display, Image Rotation, Button Lock, DP 1.2 Digital Daisy Chain (Supporting 2x2 UHD Resolution, HDCP Support), Smart Scheduling, Smart F/W update, Clock Battery(80hrs Clock Keeping) Built In MagicInfo(Lite, Premium-S, Videowall-S)