About Samsung

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions. For the latest news, please visit the Samsung Newsroom at http://news.samsung.com.

For more information

For more information about Samsung Interactive Display, SMART LED Signage, SMART Signage, and Business Monitor, visit www.samsung.com/business or www.samsung.com/displaysolutions

Samsung
QSR Display Solutions

Deliver clear, compelling content for QSRs with integrated digital signage

Outdoor Signage | Video Wall Display | QLED 8K Signage | Touch Display | Flip | SSSP Solution | MagicINFO

SAMSUNG

SAMSUNG

Transforming the QSR industry with powerful, vibrant digital displays

For Quick Service Restaurants(QSRs), standing-out from the competition is harder than it sounds. That's why restaurants are relying on Samsung's QSR display solutions to highlight products and services, creating a modern customer experience.

With increasing competition and the growing trend of mobile food ordering and food delivery, the QSR industry has had to make rapid changes in how they present information to customers. More than ever, these restaurants must be presenting menu items with vivid images, accurate information and ensure orders are being prepared correctly and promptly.

Samsung's QSR displays not only help these businesses meet those expectations, they also help deliver on the most important values to the industry —— speed and accuracy, maximizing profits and a premier brand experience. For QSRs looking to take advantage of the digitization and modernization happening across the QSR industry, Samsung is the perfect partner.

Speed and accuracy

One of the keys to success for any QSR is the ability to provide customers with their food quickly and correctly. In the modern QSR setting, customers can now order their food via a self-service kiosk, mobile ordering or a drive-through. Samsung's QSR digital displays create an improved customer experience by offering multiple ways to order food that fits customers' needs.

maximizing profits

Samsung's digital displays create a great customer experience, but they can also increase the QSRs revenue by recommending premium or high-value items first. The digital displays can also impact revenue by allowing restaurants to offer customers customized appetizers, sides and meal orders.

a premier brand experience

Customer experience inside a restaurant is a key factor in driving return visitors. It's not just about presenting menu items, but creating a strong brand identity and positive brand experience. Samsung's digital displays create a modern and sophisticated interior at QSRs, increasing customer's perception of the brand.

Digitalization Modernization

a premier brand experience

maximizing profits

Speed and accuracy

What samsung offers

Samsung's industry-leading visual display technology is reinventing the QSR industry. Samsung's full line-up of digital displays allow QSRs to revitalize stores and create a modern, attractive in-restaurant experience. Whether the signage is used indoors or outdoors, consumer-facing or employee-facing, digital signage makes an impressive statement, and commands attention from consumers and competitors alike.

Outdoor digital menuboard	Window display	Indoor digital menuboard		Standing digital menuboard	Self-order kiosk	Management solution		
Outdoor signage	Semi-outdoor signage	Video wall display	UHD Signage	Flip	Interactive display	Business monitor	MagicINFO solution	Samsung smart signage platform

Outdoor digital menuboard

Deliver clear information and content in all conditions

Samsung's outdoor signage series provide the most clear, bright and realistic images to attract and engage audiences, as well as, increase in-store visits. Regardless of weather conditions, consumers can approach the menu board to easily recognize the contents thanks to the display's high visibility.

Outdoor signage: OHN / OHN-D series
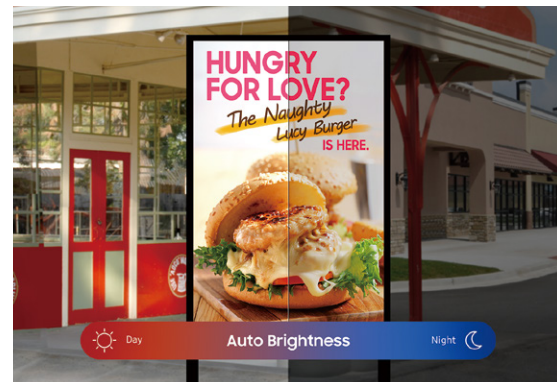
Unsurpassable visibility

Samsung's OHN series allows for exceptional, consistent content delivery with 3,000 nit brightness and 24/7 performance for outdoor digital menuboards. With a built-in dimming sensor, the display automatically adjusts the brightness based on the external lighting environment, saving operating expenses and power consumption.

High Visibility	Dimming Sensor	24/7 Operation	Embedded Media Player
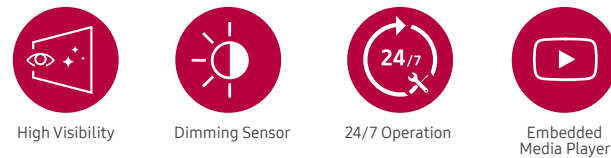
Resistant to outdoor elements

The OHN series is verified to perform in outdoor settings. IP56-rated protection* ensures the OHN series will withstand physical impact as well as dust**, humidity or other outdoor elements that could affect the display.

* Additional glass needed for kit type.
** Ingress of dust is not entirely prevented, but will not accumulate in sufficient quantities to interfere with the satisfactory operation of the equipment.

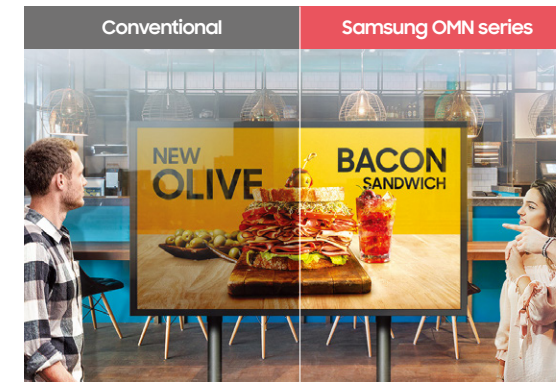| High Durability	Weather Proof	IP56 Certification	Magic Protection Glass

Window display

Catch the eye of potential customers

Designed for storefront windows, Samsung's semi-outdoor displays not only deliver an image with flawless clarity, but are also designed to maintain superior picture quality and visibility even when exposed to direct sunlight – a common challenge for conventional in-window displays.


Semi-outdoor signage: OMN / OMN-D series

Brilliant presentation for all

Unlike conventional digital signage, the OMN Series delivers content that stands out, regardless of outdoor elements. Featuring 4,000 nit brightness and a high contrast ratio up to 5,000:1*, the OMN Series' display remains bright and clear, delivering an uncompromised picture that will capture the attention of potential customers - even in direct sunlight.

* Contrast ratio varies by model.

High Brightness	High Contrast Ratio	Polarized Sunglass Support	Resistant to direct sunlight
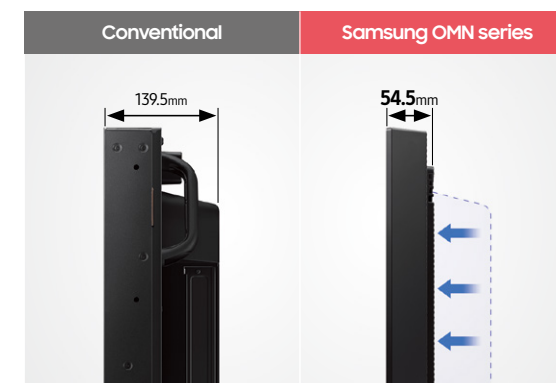
Modernize space with slim design

Through innovative design, the OMN Series delivers real-to-life pictures with a remarkably slim 54.5mm depth. Its compact size makes the display a natural extension of the store, as opposed to an addition that ties up valuable space. It also gives QSRs greater flexibility in storefront design. Meanwhile, customers remain focused on rich, engaging content on a sleek, sophisticated display and won't be distracted by a bulky display.

* "Conventional" refers to Samsung's OMD-W series.

Slim Design	No Cord Clutter	Energy Efficiency	Dual Display

Indoor digital menuboard

Entice customers with highlighted menu items through dynamic content options

Samsung's outdoor and semi-outdoor signage series provide the most clear, bright and realistic images to attract and engage audiences, as well as, increase in-store visits. Regardless of weather conditions, consumers can approach the menu board to easily recognize the contents thanks to the display's high visibility.


Video wall display: VMR-U series

- Powerful SoC
- MagicINFO S Player
- PC-less Solution
- Content Take Over
- Simple Configuration
- HDMI Loop Out or LAN Connection

Dynamic content options with powerful SoC (System-on-chip)

Samsung's VMR-U is a powerful solution to display dynamic content with visual impact to grab customer's attention and provide them with key information. QSRs easily transform screens from displaying standalone content to operating as one cohesive unit, without the need for additional hardware.

- SAMSUNG SMART — All-in-one Solution
- Flexible Content Operation
- TCO Saving
- Seamless Viewing Experience

UHD signage: QMR / QBR series

Conventional | Samsung OMN series
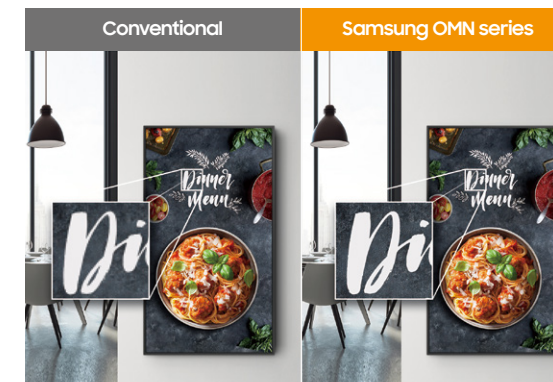
Intelligent UHD upscaling

Samsung's cutting-edge intelligent UHD upscaling technology performs edge restoration and noise reduction to deliver perfect UHD picture quality for QSRs, even with lower resolution content. This "future-proof" solution ensures best-in-class picture quality regardless of the original content resolution.

* "Conventional" refers to the models that do not adopt UHD upscaling function.

- Intelligent UHD engine
- Noise Reduction
- Edge Restoration
- HDR+

Slim and symmetrical design

The QMR / QBR series features an all-new symmetric design simplifying wall mounting and ensuring installation is seamless. The flat back and slim depth ensures a display that will stand the test of time.

Side power inlet for no depth extrusion

- Symmetric
- Slim Depth
- Narrow bezel
- Long Life Cycle

Standing digital menuboard

Promote special offers with dynamic content options in front of customers

Samsung Flip, an interactive, moveable display provides QSRs with another option to show menu items and special offers. Show dynamic content while customers wait.

Interactive display: Flip

Immediate writing and drawing

A QSR store manager can quickly add an idea or content to the display while continuously showing pre-loaded content. This ensures every store can respond to local, individual needs and changes while also being able to show centralized content across a number of stores at once.
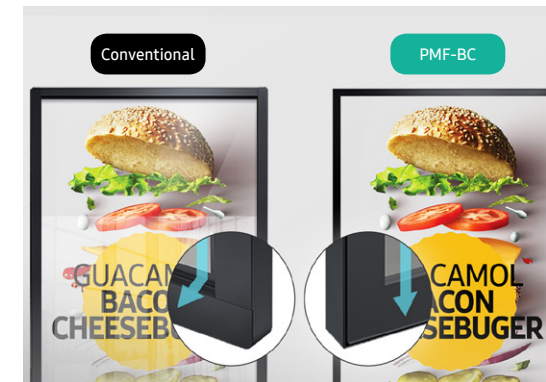
Panssive pen	Smooth & fast	Flexible erasing	Multi-writing up to 4

Versatile usage

Samsung Flip can showcase content in portrait or landscape mode thanks to convenient pivot functionality. This versatile display can also be easily moved with its 4-wheel design and provides a screen-locking function to prevent any unintended modification of content.

Pivot	Easy moving 4-wheel	Screen saver	Screen lock

Self-order kiosk

Accelerate the ordering and checkout process with digital signage

Self-ordering kiosks in QSRs allow customers to place their own order instead of waiting in line, increasing customer satisfaction. With vivid imagery displayed on the menu, customers can choose and customize their order with ease requiring minimal engagement with staff.

Interactive display: PMF-BC series

Comfortable, multi-point capacitive touch communication

Through capacitive touch technology and a user-friendly design, Samsung's PMF-BC displays foster a comfortable, easy-to-navigate digital writing experience. The interactive displays can accommodate up to 10 unique touch points* while maintaining the smooth, familiar feel of analog board or pen-and-paper writing, and without interference from dust, sunlight or other natural variables.

*The number of available touch points varies depending on configuration. Connected external PCs provide the PMF-BC display with 10 touch points, while the integrated operating system supports two additional touch points.

Seamless Touch	Multi Touch	Fast Response time	Intuitive UI

Take control with Samsung's self-service kiosks

Samsung's impressive digital display includes a robust glare-free panel that is not only dependable, but also built with a dust-resistant design. The display was developed to be resilient and powerful with consistent, 24/7 performance. The durable design does not allow dust in the display and includes an anti-glare panel to function in any environment.

Dust Resistant	Sunlight Resistant	High Reliability	Central IR

Management solution

Improve operational efficiency with intuitive management solution

Intuitive management solutions to control digital displays throughout QSRs, allowing users to create and update information easily and as needed. At the same time, crews can easily control individual situations with a versatile business monitor.

Monitor: High resolution monitor

Safe, Stress-Free Extended Use

During extended periods of monitor use, blue light wavelengths can fatigue or strain users' eyes. Samsung monitors utilize a specialized Eye Saver Mode that reduces blue light emissions, helping ensure long-term productivity for users. Samsung's Flicker Free technology also helps to eliminate common discomforts from monitor use.

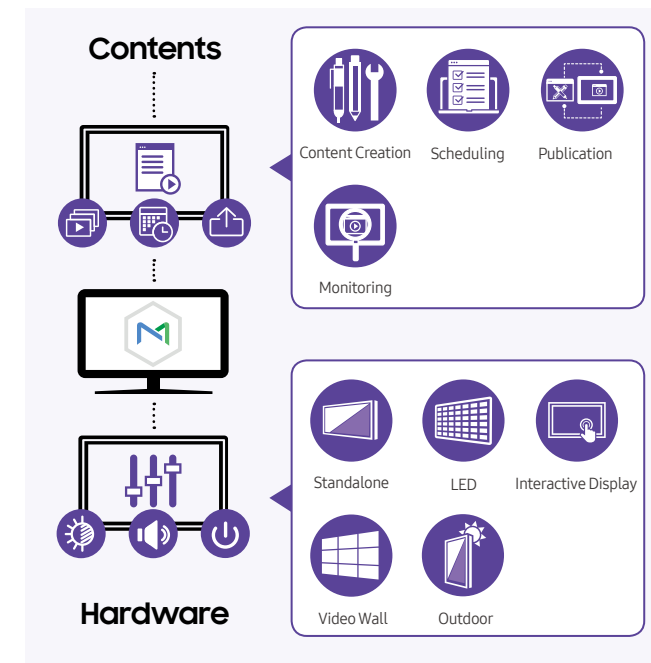| UHD	WQHD	QD	Eye Saver Mode

Business Monitor

Flexible Configuration

Samsung's ergonomic, customizable business monitors feature height-adjustable stands and pivot, swivel and tilt options that allow users to adjust positioning and place screens at the most comfortable position. If necessary, these displays also can be removed and attached to VESA-supported wall mounts for added visibility.

Swivel	Height adjustment	Pivot	Tilt
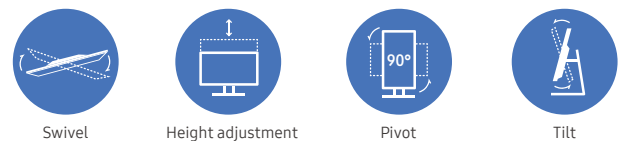
MagicINFO solution

Samsung's comprehensive MagicINFO platform can remotely manage both hardware and software through one single-point management system. With this solution, QSRs can conveniently create, schedule and deploy content and menu items across an entire digital menuboard. The platform is compatible with a host of display types, ensuring the delivery of compelling content regardless of the operational framework

Contents

- Content Creation
- Scheduling
- Publication
- Monitoring

Hardware

- Standalone
- LED
- Interactive Display
- Video Wall
- Outdoor

SSSP solution

The Samsung Smart Signage Platform (SSSP) is an, open-source, all-in-one solution that is embedded in Samsung's SMART signage and doesn't require any additional devices to communicate with the server and play digital media. SSSP provides an integrated media player by giving partners the freedom to create software directly on their Samsung displays.

Remote management solution

Thanks to Samsung MagicINFO Remote Management Solution, an SSSP Partner that has its own CMS solution can perform in-depth remote monitoring of digital devices and eliminate the need for site visits or service calls.

Partner's CMS server — API — Samsung remote management solution

Content distribution — Device control

- SoC (Tizen)
- SoC (Tizen)
- I Player (Windows)
- I Player (Windows)
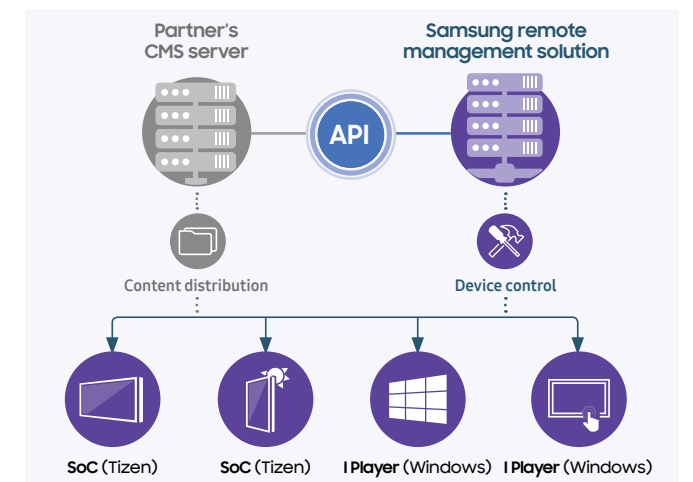
Specification

Outdoor signage

Project		Screen Size	Resolution	Brightness	Contrast Ratio	Operation Hour	IP Rating	Connectivity	SoC	S/W
Outdoor	OHN	85"	3840 x 2160	3,300 nit	3,000:1	24/7	IP56	In: DP1.2, HDMI 2.0(2), HDCP 2.2, USB2.0 Out: Stereo Mini JackExt: RS232C(In), RJ45(In)	SSSP 6	Built-in MagicInfo Player S6
Outdoor	OHN-D (Dual display)	85"	3840 x 2160	3,300 nit	3,000:1	24/7	IP56	In: DP1.2(2), HDMI 2.0(4), HDCP 2.2, USB2.0(2) Out: Stereo Mini JackExt: RS232C(In), RJ45(In)	SSSP 6	Built-in MagicInfo Player S6
Outdoor	OHF	46", 55", 75"	1920 x 1080	3,000 nit(46") 2,500 nit(55",75")	5,000:1	24/7	IP56	In: HDMI1.4(2), HDBaseT(LAN Common), HDCP 2.2, USB2.0 Out: Stereo Mini JackExt: RS232C(In/Out), RJ45(In/Out), HDBaseT	SSSP 4	Built-in MagicInfo Player S4
Semi-Outdoor	OMN	46", 55"	1920 x 1080	4,000 nit	5,000:1(46") 4,000:1(55")	24/7	IP5X	In: DP1.2, HDMI 2.0(2), HDCP 2.2, USB2.0 Out: HDMI 2.0, Stereo Mini JackExt: RS232C(In/Out), RJ45(In/Out)	SSSP 6	Built-in MagicInfo Player S6
Semi-Outdoor	OMN-D (Dual Display)	46", 55"	1920 x 1080	3,000 nit(front) 1,000 nit(back)	5,000:1(46") 4,000:1(55")	24/7	IP5X	In: HDMI 2.0(2), HDCP 2.2, USB2.0(2) Ext: RS232C(In), RJ45(In)	SSSP 6	Built-in MagicInfo Player S6
Semi-Outdoor	OMD-W	75"	1920 x 1080	2,500 nit	5,000:1	24/7	-	In: Analog D-SUB, DVI-D, DP1.2, HDMI(2), Component(CVBS Common), HDCP1.4, Stereo Mini Jack, USB 2.0 Out: DP1.2(Loop-out), Stereo Mini JackExt: RS232C(In/Out), RJ45	SSSP 2	Built-in MagicInfo Player S2
Semi-Outdoor	OMH	32"	1920 x 1080	1,000 nit	3,000:1	16/7	-	In: DP, HDMI(2), HDCP 2.2, USB(1) Out: DP1.2(Daisy Chain), Stereo Mini Jack Ext: RS232C(In/Out), RJ45(In/Out), HDBaseT(In)	SSSP 4	MagicInfo Player S4

QLED 8K signage

Project	Screen Size	Resolution	Brightness	Operation Hour	Connectivity	SoC	S/W
QPR - 8K	82"	7680 x 4320	500 nit	16/7	In: HDMI 2.0(4, Including 8K 60p input support 1), USB 2.0(3) Out : Optical(Digital Audio Out) Ext: RS232C(In), RJ45	SSSP 7	MagicInfo S7

UHD signage

Project	Screen Size	Resolution	Brightness	Contrast Ratio	Operation Hour	Panel Type	Connectivity	SoC	S/W
QHH	55", 65"	3840 x 2160	600 nit	6,000:1	16/7	-	In: DP1.2, HDMI 2.0(2), HDCP 2.2, USB2.0(2) Out: HDMI #1 ARC support Ext: RS232C(In/Out), RJ45	SSSP 5	MagicInfo S5
QMR	43",49",55", 65",75"	3840 x 2160	500 nit	6,000:1(75") 4,000:1(43",49",55",65")	24/7	Non-Glare	In: DVI-D, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB2.0(2) Out: HDMI 2.0(Loop-out), Stereo Mini Jack Ext: RS232C(In/Out), RJ45	SSSP 6	MagicInfo S6
QMN	85", 98"	3840 x 2160	500 nit	4,000:1(98") 3,000:1(85")	24/7	Non-Glare	In: DVI-D, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB2.0(2) Out: HDMI 2.0(Loop-out), Stereo Mini Jack Ext: RS232C(In/Out), RJ45	SSSP 6	MagicInfo S6
QBR	43",49",55", 65",75	3840 x 2160	350 nit	5,000:1(43") 4,700:1(49",55") 4,000:1(65",75")	16/7	-	In: DVI-D, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB2.0(2) Out: Stereo Mini Jack Ext: RS232C(In/Out), RJ45	SSSP 6	MagicInfo S6
QEN	82"	3840 x 2160	300 nit	5,000:1	16/7	-	In: DVI-D, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB2.0(2) Out: Stereo Mini Jack Ext: RS232C(In/Out), RJ45	SSSP 6	MagicInfo S6

FHD signage

Project	Screen Size	Resolution	Brightness	Contrast Ratio	Operation Hour	Panel Type	Connectivity	SoC	S/W
PHF-P	43", 49", 55"	1920 x 1080	700 nit	4,000:1(49",55") 3,000:1(43")	24/7	Non-Glare	In: DVI-I, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB2.0(2) Out: DP1.2(Loop-out), Stereo Mini Jack Ext: RS232C(In/Out), RJ45	SSSP 4	MagicInfo S4
PMF	32"	1920 x 1080	400 nit	5,000:1	16/7	-	In: DVI-I, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB2.0(2) Out: DP1.2(Loop-out), Stereo Mini Jack Ext: RS232C(In/Out), RJ45	SSSP 4	MagicInfo S4
DCE	32", 55"	1920 x 1080	350 nit	5,000:1	16/7	-	In: D-SUB, DVI-I, HDMI1.4(2), HDCP1.4, Stereo Mini Jack, USB2.0 Out: Stereo Mini Jack Ext: RS232C(In), RJ45	Simple SoC	Built-in MagicInfo Lite
DCJ	43", 49"	1920 x 1080	300 nit	3,000:1	16/7	-	In: DVI-I, HDMI1.4(2), HDCP1.4, Stereo Mini Jack, USB2.0 Out: Stereo Mini Jack Ext: RS232C(In), RJ45	Simple SoC	Built-in MagicInfo Lite

Video wall display

Project	Screen Size	Resolution	Brightness	Contrast Ratio	Operation Hour	B-to-B (mm)	Bezel Width	Connectivity
UHF-E/UHN-E	46"(UHN-E) 55"(UHF-E)	1920 x 1080	700 nit	4,000:1	24/7	1.7mm	1.15mm(U/L), 0.55mm(R/B)	In: Analog D-SUB, DVI-D, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack Out: DP1.2(Loop-out), Stereo Mini Jack Ext: RS232C(In/Out), RJ45
UMH-E/UMN-E	46"(UMN-E) 55"(UMH-E)	1920 x 1080	500 nit	4,000:1	24/7	1.7mm	1.15mm(U/L), 0.55mm(R/B)	In: Analog D-SUB, DVI-D, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack Out: DP1.2(Loop-out), Stereo Mini Jack Ext: RS232C(In/Out), RJ45
VMR-U	46"	1920 x 1080	500 nit	3,500:1	24/7	3.5mm	2.3mm(U/L) 1.2mm(R/B)	In: DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack Out: HDMI, Stereo Mini Jack Ext: RS232C(In/Out), RJ45
UDE-A/UDE-B	46", 55"	1920 x 1080	700 nit(UDE-A) 500 nit(UDE-B)	4,000:1(55") 3,500:1(46")	24/7	3.5mm	2.3mm(U/L) 1.2mm(R/B)	In: Analog D-SUB, DVI-D, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack Out: DP1.2(Loop-out), Stereo Mini Jack Ext: RS232C(In/Out), RJ45
UHF5	46"	1920 x 1080	700 nit	4,000:1	24/7	5.5mm	3.4mm(U/L), 2.0mm(R/B)	In: DVI-D, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack Out: DP1.2(Loop-out), Stereo Mini Jack Ext: RS232C(In/Out), RJ45(In)

Interactive display

Project	Screen Size	Resolution	Brightness	Contrast Ratio	Operation Hour	Touch Type	# of Touch	Connectivity	SoC	S/W
PMF-BC	32" 43" 55"	1920 x 1080	300 nit (32") 350 nit (43") 400 nit (55")	5,000:1(32") 3,000:1(43") 4,000:1(55")	24/7(43",55") 16/7(32")	Capacitive touch	Max. 10 Touch	In: DVI-I(D-SUB Common), DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB 2.0(2, 1 used for touch) Out: DP1.2(Loop-out), Stereo Mini Jack, USB Type-B(2) Ext: RS232C(In/Out), RJ45	SSSP 4	Built-in MagicInfo S4

Flip

Project	Screen Size	Resolution	Brightness	Contrast Ratio	Touch Type	Touch Pen Type	# of Drawing	Connectivity	S/W	Remark
Flip	55"	3840 x 2160 (Landscape) 2160 x 3840 (Portrait)	300 nit	4,700:1	Inglass™ Touch	Passive Pen	4 Drawing	In: HDMI, USB 2.0(2) Out: Touch Out Ext: Touch Input, RJ45(not for User Control)	Flip S/W	Moving Stand with advanced Pivot

Monitor

	Screen Size	Flat/Curved	Resolution	Brightness	Viewing angle	Connectivity	USB-C	Eye Saver Mode
CJ89	49", 43"	Curved	3840x1080(49") 3840x1200(43")	300cd/m2	178°(H)/178°(V)	HDMI, DP, USB Hub	Yes(2EA)	Yes
CHG90	49"	Curved	3840x1080	350cd/m2	178°(H)/178°(V)	HDMI 2, DP, mDP, USB Hub	N/A	Yes

MagicINFO solution

	Number of displays connecting to MagicINFO Server			
	<200	<2000	<5000	>5000
OS	Windows Server® 2008 / 2012 / 2016			
CPU	Intel Xeon E3-1200 or better	Intel Xeon E5-2400 or better	Intel Xeon E5-2600 or better	Intel Xeon E5-4600 or better
RAM	4 GB or more	8 GB or more	16 GB or more	32 GB or more
HDD	At least 100 GB for basic setup (operating system and server application) *Heavily dependent on the amount of content data to be stored on the server			
Network Bandwidth	64 kbps or better			
Number of Servers	1	2	3	3 or more; dependent on scenario

* Specifications are a summary only, for more detailed specifications please refer to the respective individual product catalog.