Legal and additional information

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For more information

For more information about the Samsung MEC and MDC Series Video Displays, visit www.samsunglfd.com

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Samsung Electronics Co., Ltd.
416, Maetan 3-dong,
Yeongtong-gu
Suwon-si, Gyeonggi-do 443-772,
Korea

www.samsung.com

Samsung performance signage display (MEC, MDC Series)

High-performance, efficient digital signage with the Samsung Smart Signage Platform (built-in media player) for greater message impact

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High performance with reduced start up and operating costs

Display vibrant digital signage content in a slim, practical design

Businesses in the visual display mainstream market segment are concerned about reducing startup and operating costs, and delivering a unique experience to store visitors. Specifically, mainstream market segment organizations want to accomplish the following objectives:

- Reduce digital signage expenses
- Decrease initial equipment and installation costs
- Control operational costs, including energy costs
- Help minimize the additional costs of purchasing separate options, such as PC modules
- Deliver a distinctive viewing experience to viewers through high-quality digital signage
- Display a range of media types on a single screen
- Access a wide array of content connectivity options
- Present content in portrait orientation, without the need to purchase a separate PC module or maintain content uniquely tailored to portrait display
- Arrange digital signage in a variety of settings, including environments with limited space

Figure 1. High performance, efficient digital signage with Samsung ME / MD Series

Samsung slim, light LED large format displays (LFDs) offer lower power consumption for reduced operating costs and easier, more economical installation for reduced startup costs. Samsung Performance Signage Display (MEC, MDC Series) LED LFDs also offer high-performance features that include:

- A built-in Samsung Smart Signage Platform that eliminates the need to purchase a separate PC module or media player to run various media types
- A dual-core, 1 GHz CPU, 1-GB Dual 32-bit double data rate (DDR) and 4 GB solid state drive (SSD) storage for optimized operation
- A full codec, high-performance, Windows® Media Video (WMV), MP4, H 2.64 video processor for rich, vibrant media display
- MagicInfo™ Premium S digital signage software for controlling media display more easily
- An ultra-clear panel to provide sharper image display
- Image rotation capability from landscape to portrait without the use of a separate PC module
- Optional overlay accessories to protect the display or transform it into an interactive solution (MEC only)

A growing variety of requirements along with a growing market

The LFD market is experiencing ongoing growth, and the LED portion of the market is also increasing. Customers seek the benefits of LED technology, such as a slim, lightweight design and reduced power consumption.

As the market expands, two different needs for content management and playback capability are emerging. The customer who is adopting digital signage for the first time or on a small scale typically wants simple content creation and management. Embedded media players offer an all-in-one design with greater flexibility and simplicity of content management instead of an additional PC module.

Figure 2. The market focus is shifting from PC-type media players to embedded media players.

A built-in media player that eliminates the need to purchase a separate display and PC module

Along with the need for content management simplicity, the display of content on a single screen is becoming more complex in mature markets. Content display includes entertainment, informative text and images, background music, widgets, advertisements and interactive media. Customers in this segment require the full capability of content creation and management, as well as digital signage device management. With the Setback Box (SBB), an additional PC module and MagicInfo Premium Server, the customer can fulfill these requirements.

Figure 3. The type of content displayed on a single screen is becoming increasingly complex.

Modern digital signage must address the two completely different market requirements on a single device to support various customer business environments.

Expand the range of media display options with the economical, built-in Samsung Smart Signage Platform

Samsung Smart Signage Platform eliminates the need for customers to purchase, install or use an external PC or media player. Magicinfo Premium™ S player and MagicInfo™ Lite applications perform the media player functions.

The embedded MagicInfo™ Premium S Player and MagicInfo™ Lite enable the LFD to operate as a standalone unit. A user can conveniently access multimedia files and templates saved in USB memory simply by plugging the USB into a port. Multimedia or other content can be saved in internal memory. Users can then create customized content with preinstalled templates in LFD, using only the remote controller provided with LFD.

The remote controller provides not only content creation and playback capabilities, but also local scheduling of content playback.

Figure 4. Embedded MagicInfo™ Premium S Player software features USB Auto Play and content or templates saved in LFD

Built within a microchip, the internal media player has a CPU with a powerful processing speed and an impressive cache size. These features are designed to offer quick, easy storage and play of a wide range of media types.

For customers who are already using MagicInfo™ Lite in their organization, MEC, MDC Series also provides MagicInfo™ Lite with the MagicInfo™ Premium S Player. MagicInfo™ Lite is the light version of the embedded media player that provides the basic content playback and scheduling capabilities.

Fully manage and control devices and content with the additional PC module and MagicInfo Premium Solution

MEC, MDC Series supports a detachable SBB-A type PC module design for enhanced practicality. A user can affix the additional PC module to the back of the display and install MagicInfo™ Premium i Player in the attached PC module. MagicInfo™ Premium i Player works with MagicInfo™ Server over a network, and provides full user management and control over network devices and content playing. The MagicInfo™ Premium i Player is featured at the high end of the MagicInfo™ media player family. It provides full content support, including Internet content, Really Simple Syndication (RSS) content, multiple content types, effects and even integration with data in a database.

Achieve a more aesthetic look with a slim, practical design that simplifies installation

A narrow bezel helps direct audience attention to the content. The slim bezel depth of 16.2~17.3 mm in the MEC Series provides an aesthetically pleasing appearance. The narrow bezel also leaves additional room for installation. Performance Signage Display (MEC, MDC Series) is lighter than conventional models.

Designed for quick, easy installation, the LED LFDs can usually be set up in minutes with little effort. Because of the lightweight design, the displays require less support to hold or carry. The streamlined dimensions make moving the displays more convenient and straightforward.

The edge-type and direct-type designs offer slim panel proportions, which means that less space is needed for the monitors.

New Samsung LED LFDs are even slimmer and lighter than previous models.

Convey business messages clearly in a brilliant, eco-friendly display

MEC, MDC Series technology delivers enhanced performance in a cost-effective solution that uses less energy and emits less heat. needs cost-effectively.

MEC Series LED LFD technology
Samsung MEC Series is economical and gentle on the environment. MEC Series edge-type LED feature LED lamps located on the sides of the panel. The lamps emit light on the display sides, resulting in a much thinner screen that requires fewer lamps than conventional panels. With fewer LED lamps, power consumption and heat emission are reduced and a slim, lightweight design is achieved.
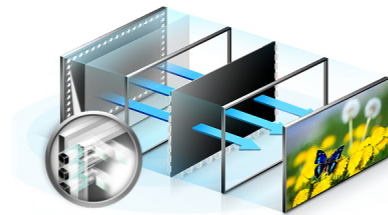

Figure 5. MEC Series edge-type LED LFDs feature side-panel lamps with fewer LEDs and an environmentally sound, streamlined design.

Digital signage conditions can be optimized by reducing the amount of heat radiating through the display area. Conventional LFDs emit consistent amounts of heat across the breadth of the displays. Samsung LFDs diminish the heat and spread it around the sides of the screen. This heat disbursement helps to create a more enjoyable environment, especially when employees and customers are in close proximity to the displays.
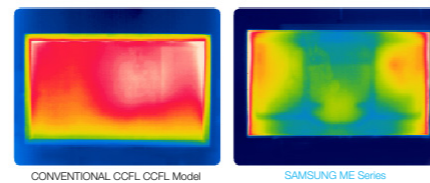

CONVENTIONAL CCFL CCFL Model   SAMSUNG ME Series
Figure 6. MEC Series LED LFD technology reduces heat emission and disburses it across the sides of the screen.

MDC Series LED LFD technology
MDC Series direct-type LED LFD digital signage feature LED lamps that are located behind the panel, with a better picture quality and realistic color. Its slim, lightweight design also reduces power consumption.

Figure 7. MDC Series direct-type LED LFDs have lamps located behind the panel, and offer a higher picture quality with realistic color, in a slim, lightweight, ecological design.

Enhance readability and attract viewers with extraordinary picture quality

The Performance Signage Display (MEC, MDC Series) Ultra Clear Panel provides sharper, more detailed images and enhanced picture quality. The panel reduces light scatter and reflection to enhance readability.

High Contrast Ratio (MEC, MDC Series) and high brightness (MEC only) support a more attractive, vibrant display. Contrast ratio enhancement provides more detailed images.

Conventional   Ultra Clear Panel
Figure 8. The Ultra Clear Panel reduces light scatter and provides clearer, more detailed images.

Rotate images more economically with Image Rotation

The MEC and MDC 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.

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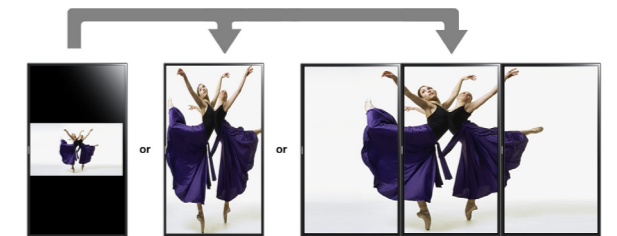

Figure 9. Image rotation from portrait to landscape enhances usability with no loss of resolution.

Choose from a wider range of display and functionality options with MEC Series overlays

MEC Series monitors have two types of optional overlay accessories to enhance their flexibility and usability: Protection Glass Option and Touch Module option . Built exclusively for Samsung LED LFDs, the overlays protect or transform the monitors with little increase in depth. When the overlay accessories are added, the displays still weigh substantially less than conventional LFDs.
The overlay accessories are designed for easy installation in a few simple steps:

1. Place the overlay.
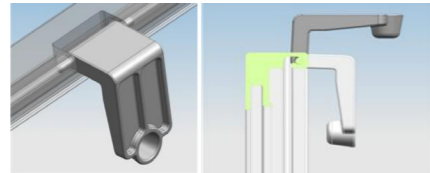2. Push down the holders.
3. Fasten a few screws.

Figure 10. Installation of the overlays is designed for completion in a few simple steps.

Protection Glass Option

The Protection Glass Option safeguards the display from potential damage caused by contact with hazardous objects. It offers robust protection in commercial environments. With the flat Protection Glass Option laid over the display, the stylish bezel-less design integrates well with the surrounding environment.

Touch Module Overlay Option

The Touch Module Option transforms the display into a dynamic touch solution. The added touch capability enhances the user experience by enabling the user to interact with the content. Multi-touch capability up to six points delivers a satisfying experience to multiple users simultaneously. Monitor sizes 32 - 55 in. feature an infrared (IR)-type touch.
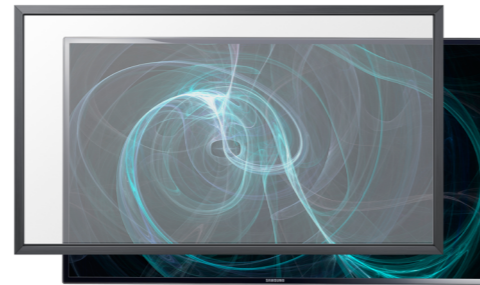
Figure 11. The Touch Module Option provides a touch overlay that transforms the display into an interactive touch module.

Connect to digital content sources with greater MEC Series flexibility

The MEC Series monitors feature upgraded connectivity options with access to a wide range of digital content through:

- DisplayPort® (DP) (version 1.2)
- 2 x High-Definition Multimedia Interface® (HDMI®)
- RS-232C
- RJ45

Access to a broader range of digital content options provides a more engaging user experience. Users can connect PCs and other compatible devices to display the content that is most relevant to the audience.

Reduce energy costs and consumption for smarter, more economical operation

Performance Signage Display (MEC, MDC Series) is ENERGY STAR® 6.0-compliant. The displays feature reduced energy consumption and a smaller carbon footprint.

Features and benefits

Features	Benefits
LED LFD edge-type and direct-type digital signage	• Enhanced performance • Cost savings from less electricity use and lower heat emission • Simplified installation and convenient mobility through a lightweight design
Built-in Samsung Smart Signage Platform	• Elimination of the need to purchase, install or use an external PC or media player • Expansion of the range of media types that can be played on the monitors
Ultra Clear Panel	Sharper, more detailed images and enhanced picture quality
High brightness (MEC model only)	A more attractive, vibrant display
Rotation functionality with two resolution options	• Greater display flexibility • No loss of resolution when the images are rotated for preservation of image quality • Convenient content creation
Protection Glass Overlay Option (MEC model only)	• Increased protection from damage • Simplified installation
Touch Module Overlay Option (MEC model only)	Transformation of the display into a dynamic, interactive touch solution
Upgraded connectivity options (MEC model only)	Access to a wider range of digital content through, DP 1.2, 2 x HDMI, RS-232C and RJ45 connectivity options
ENERGY STAR 6.0 compliance	• Reduced energy consumption • A smaller carbon footprint

Present sophisticated, vivid digital messages with an advanced LED monitor

Performance Signage Display (MEC, MDC Series) is a vibrant, digital signage monitor that combines high performance, cost-efficiency and advanced functionality in a practical design. It offers a wide array of media and connectivity options, including a built-in Smart Signage Platform that eliminates the need for a separate media-control PC.

Performance Signage Display (MEC, MDC Series) offers an ultra-clear panel for sharp, clear picture quality. It also features the ability to rotate images more easily and economically with Portrait Mode.

MEC-model overlays expand the monitor's durability and functionality, and upgraded connectivity options support a broad range of content. ENERGY STAR 6.0 compliance helps reduce the display's operating cost and environmental impact.

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Specifications

			MD32C	MD40C
Panel	Diagonal Size		32"	40"
	Type		60Hz LED BLU	60Hz LED BLU
	Resolution		1920x1080 (16:9)	1920x1080 (16:9)
	Pixel Pitch(mm)		0.12125(H) x 0.36375(V)	0.15375(H) x 0.46125(V)
	Active Display Area(mm)		698.4(H) x 392.85(V)	885.6(H) x 498.15(V)
	Brightness(Typ.)		350nit	350nit
	Contrast Ratio		5000:1	5000:1
	Viewing Angle(H/V)		178:178	178:178
	Response Time(G-to-G)		8ms	8ms
	Display Colors		16.7M	16.7M
	Color Gamut		72%	72%
Display	Dynamic C/R		100,000 : 1(AV Mode)	100,000 : 1(AV Mode)
	H-Scanning Frequency		30 ~ 81kHZ	30 ~ 81kHZ
	V-Scanning Frequency		48 ~ 75HZ	48 ~ 75HZ
	Maximum Pixel Frequency		148.5MHz	148.5MHz
Connectivity	INPUT	RGB	Analog D-SUB, DVI-D	Analog D-SUB, DVI-D
		VIDEO	HDMI, Component(CVBS Common)	HDMI, Component(CVBS Common)
		AUDIO	Stereo mini Jack	Stereo mini Jack
	OUTPUT	AUDIO	Stereo mini Jack	Stereo mini Jack
	EXTERNAL CONTROL		RS232C(in/out) thru stereo jack, RJ45	RS232C(in/out) thru stereo jack, RJ45
Power	Type		Internal	Internal
	Power Supply		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
Mechanical Spec	Dimension (mm)	Set	736 X 436.0 X 93.5(To be fixed)	925.4 x 542.6 x 93.5(To be fixed)
	Weight (kg)	Set	To be fixed	To be fixed
	VESA Mount		200*200mm	200*200mm
	Stand Type		Foot Stand (Optional)	Foot Stand (Optional)
	Media Player Option Type		Embbeded, SBB-A(Attadched)	Embbeded, SBB-A(Attadched)
	Bezel Width (mm)		16.3mm(Bottom 21.9mm)	17.4mm(Bottom 22.0mm)
Feature	Key		Slim & Light LFD with Built-in MagicInfo Lite	Slim & Light LFD with Built-in MagicInfo Lite

			MD46C	MD55C
Panel	Diagonal Size		46"	55"
	Type		60Hz LED BLU	120Hz LED BLU
	Resolution		1920x1080 (16:9)	1920x1080 (16:9)
	Pixel Pitch(mm)		0.17675(H) x 0.53025(V)	0.21(H) x 0.63(V)
	Active Display Area(mm)		1018.08(H) x 572.67(V)	1209.6(H) x 680.4(V)
	Brightness(Typ.)		350nit	350nit
	Contrast Ratio		5000:1	5000:1
	Viewing Angle(H/V)		178:178	178:178
	Response Time(G-to-G)		8ms	8ms
	Display Colors		16.7M	16.7M
	Color Gamut		72%	72%
Display	Dynamic C/R		100,000 : 1(AV Mode)	100,000 : 1(AV Mode)
	H-Scanning Frequency		30 ~ 81kHZ	30 ~ 81kHZ
	V-Scanning Frequency		48 ~ 75HZ	48 ~ 75HZ
	Maximum Pixel Frequency		148.5MHz	148.5MHz
Connectivity	INPUT	RGB	Analog D-SUB, DVI-D	Analog D-SUB, DVI-D
		VIDEO	HDMI, Component(CVBS Common)	HDMI, Component(CVBS Common)
		AUDIO	Stereo mini Jack	Stereo mini Jack
		AUDIO	Stereo mini Jack	Stereo mini Jack
	EXTERNAL CONTROL		RS232C(in/out) thru stereo jack, RJ45	RS232C(in/out) thru stereo jack, RJ45
Power	Type		Internal	Internal
	Power Supply		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
Mechanical Spec	Dimension (mm)	Set	1057.8 x 617.0 x 94.5(To be fixed)	1248.7 x 724.2 x 94.5(To be fixed)
	Weight (kg)	Set	To be fixe d	To be fixed
	VESA Mount		400*400mm	400*400mm
	Stand Type		Foot Stand (Optional)	Foot Stand (Optional)
	Media Player Option Type		Embbeded, SBB-A(Attadched)	Embbeded, SBB-A(Attadched)
	Bezel Width (mm)		17.4mm(Bottom 22.0mm)	17.5mm(Bottom 22.2mm)
Feature	Key		Slim & Light LFD with Built-in MagicInfo Lite	Slim & Light LFD with Built-in MagicInfo Lite

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Specifications

			ME32C	ME40C
Panel	Diagonal Size		32"	40"
	Type		60Hz e-LED BLU	60Hz e-LED BLU
	Resolution		1920x1080 (16:9)	1920x1080 (16:9)
	Pixel Pitch(mm)		0.12125(H) x 0.36375(V)	0.15375(H) x 0.46125(V)
	Active Display Area(mm)		698.4(H) x 392.85(V)	885.6(H) x 498.15(V)
	Brightness(Typ.)		450nit - To be fixed	450nit - To be fixed
	Contrast Ratio		5000:1	5000:1
	Viewing Angle(H/V)		178:178	178:178
	Response Time(G-to-G)		8ms	8ms
Display	Dynamic C/R		100,000 : 1(AV Mode)	100,000 : 1(AV Mode)
	H-Scanning Frequency		30 ~ 81kHZ	30 ~ 81kHZ
	V-Scanning Frequency		48 ~ 75HZ	48 ~ 75HZ
	Maximum Pixel Frequency		148.5MHz	148.5MHz
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(in/out) thru stereo jack, RJ45	RS232C(in/out) thru stereo jack, RJ45
	EXTERNAL SENSOR		IR, Ambient Light	IR, Ambient Light
Power	Type		Internal	Internal
	Power Supply		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
Mechanical Spec	Dimension (mm)	Set	734.8 X 433.8 X 29.9(To be fixed)	922.1 X 539.4 X 29.9(To be fixed)
	Weight (kg)	Set	To be fixed	To be fixed
	VESA Mount		200*200mm	200*200mm
	Protection Glass		Optional	Optional
	Stand Type		Foot Stand (Optional)	Foot Stand (Optional)
	Media Player Option Type		Embbeded, SBB-A(Attadched)	Embbeded, SBB-A(Attadched)
	Bezel Width (mm)		16.2mm (Bottom 20.8mm)	16.2mm (Bottom 20.9mm)
Feature	Key		Slim & Light LFD with Built-in MagicInfo Lite	Slim & Light LFD with Built-in MagicInfo Lite
Media Player	CPU		SBB-A (Optional, No Mechanical Screw Hole)	SBB-A (Optional)

			ME46C	ME55C
Panel	Diagonal Size		46"	55"
	Type		60Hz e-LED BLU	120Hz e-LED BLU
	Resolution		1920x1080 (16:9)	1920x1080 (16:9)
	Pixel Pitch(mm)		0.17675(H) x 0.53025(V)	0.21(H) x 0.63(V)
	Active Display Area(mm)		1018.08(H) x 5 72.67(V)	1209.6(H) x 680.4(V)
	Brightness(Typ.)		450nit - To be fixed	450nit - To be fixed
	Contrast Ratio		5000:1	5000:1
	Viewing Angle(H/V)		178:178	178:178
	Response Time(G-to-G)		8ms	8ms
Display	Dynamic C/R		100,000 : 1(AV Mode)	100,000 : 1(AV Mode)
	H-Scanning Frequency		30 ~ 81kHZ	30 ~ 81kHZ
	V-Scanning Frequency		48 ~ 75HZ	48 ~ 75HZ
	Maximum Pixel Frequency		148.5MHz	148.5MHz
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(in/out) thru stereo jack, RJ45	RS232C(in/out) thru stereo jack, RJ45
	EXTERNAL SENSOR		IR, Ambient Light	IR, Ambient Light
Power	Type		Internal	Internal
	Power Supply		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
Mechanical Spec	Dimension (mm)	Set	1057.6 X 615.8 X 29.9(To be fixed)	1248.0 X 722.4 X 29.9(To be fixed)
	Weight (kg)	Set	To be fixed	To be fixed
	VESA Mount		400*400mm	400*400mm
	Protection Glass		Optional	Optional
	Stand Type		Foot Stand (Optional)	Foot Stand (Optional)
	Media Player Option Type		Embbeded, SBB-A(Attadched)	Embbeded, SBB-A(Attadched)
	Bezel Width (mm)		17.3mm (Bottom 20.9mm)	17.2mm (Bottom 20.8mm)
Feature	Key		Slim & Light LFD with Built-in MagicInfo Lite	Slim & Light LFD with Built-in MagicInfo Lite
Media Player	CPU		SBB-A (Optional)	SBB-A (Optional)