Experience brilliant semi-outdoor signage with high visibility and simplified connections

Highlights

- Attract and engage audiences with superior visibility and high brightness in 2,500-nit, 5,000:1 contrast ratio LED displays.
- Cut operating costs with energy-efficient technology even with high brightness, using an Auto Brightness sensor and customizable brightness range.
- Install easily and operate remotely with 2nd Generation SSSP powered by built-in Wi-Fi.
- Display and manage content readily with MagicInfo mobile and server solution.
- Gain flexibility with a choice of kit-type or complete-product configurations.

Brighten in-window displays efficiently with proven LED BLU technology

Businesses need new strategies with lower total cost of operation (TCO) to attract customers' attention and convey information. When adopting in-window digital signage as a strategy, businesses need high brightness and visibility, along with digital merchandising and advertising content management. They also need easy installation with built-in Wi-Fi for remote, wireless control, collaboration with housing SI for mounting compatibility and the versatility of either a complete product or kit-type product.

Samsung OMD Series displays build on the success of Samsung inwindow CCFL displays, with proven LED BLU technology that delivers even more efficiency to enliven business messaging.

OMD Series displays are brighter while reducing power consumption at



2,500 nit using 315 W compared to the SL46B at 1,500 nit using 356 W thus offering ultimate outdoor visibility at a great value.





Conventional at 1,500 nit Using 356 W

OM46D at 2,500 nit Using 220 W

Figure 1. Great advantages in energy savings

OMD Series displays deliver performance, quality and reliability for in-window displays. With innovative Samsung technology, the displays can outshine bright sunlight with 2,500 nit brightness, and automatic brightness control delivers optimal visibility in various lighting environments.

Wired and wireless connectivity, along with powerful remote system control through a mobile app. enables centralized, cable-free content management and device control. And the System-on-Chip (SoC) media player embedded within the in-window digital signage simplifies content management and provides a clutter-free configuration.

The displays are available in two configurations to suit the needs of any display environment. OMD-K displays are kit-type displays that can fit into customized housings to address a wide range of design and environmental requirements. OMD-W displays are standalone units with an aesthetic design and back cover.







Elevate business messaging with bright and visually appealing displays

Combine high brightness and low energy consumption for ideal digital messaging

With 2,500-nit brightness that outshines other in-window displays, OMD Series displays achieve an optimal blend of excellent visibility and brightness. As internal Samsung testing revealed, the displays are one of the brightest products on the market, with an obvious advantage in illumination.

OMD Series displays with LED backlight technology, emits less carbon dioxide (CO 2) and contains less mercury, halogen and lead compared with conventional cold cathode fluorescent lamp (CCFL) display, while lower power consumption.

Deliver high visibility in a bright, attractive display

Transitioning from CCFL to LED technology provides significant energy-saving advantages. An auto brightness sensor — another great feature for energy saving and panel life cycle extension — optimizes energy consumption by adjusting the display for optimal brightness in various ambient environments. The sensor regulates the display's brightness between 350 nit and 2,500 nit, automatically maintaining a level that is neither too dark nor too bright. The sensor's settings can be customized by the user to achieve the ideal balance of visibility and power consumption for any environment.

OMD Series displays have a high contrast ratio (5,000:1) that provides clear and vivid delivery of visual messaging. Unlike conventional in-window displays in which the contrast ratio dramatically decreases when exposed to brighter light sources, the OMD Series high-contrast ratio is maintained, even with a high brightness of 2,500 nit.

Another display issue is that light emitted from an LCD display is all polarized, so a customer wearing polarized sunglasses with right-angled polarized lenses perceives that the display is turned off. In order to display images to everyone, Samsung applied circular polarizing technology in OMD Series displays, which eliminates display blindness caused by polarized sunglasses.



Auto Brightness Sensor



even in sunlight even under the sunlight

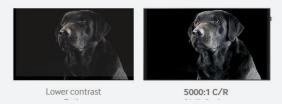


Figure 2. Technologies for clear and dynamic messaging

Experience easy, clutter-free installation, operation and maintenance

MagicInfo E Author makes content creation through your PC straightforward. With over 200 pre-built design templates, you can create and insert professional promotions with text, images and videos to convey and emphasize messages, so you never have to start from a blank page. The templates include a range of high-quality, royalty-free (RF) images that can be immediately used by shop owners for professional-looking results. Templates are available for a variety of business and markets, such as individual retail stores, quick-service restaurants (QSRs) and other dining establishments, grocery stores, cosmetic stores, arts and entertainment venues, and healthcare facilities. Both portrait and landscape template layouts are available to suit your unique display needs.





Continuously display vibrant content with a sleek display that's ideally suited to the environment

Multiple connectivity options are available, including Wi-Fi connectivity and a mobile application which, together, support easier management. To maximize usage of the built-in Wi-Fi feature, Samsung provides the MagicInfo Mobile Application, which can be used on a tablet or other mobile device to easily deliver content to the display or to update the display's templates or content. The MagicInfo Server solution also enables professional management of multiple displays through a Wi-Fi network. In some cases, the available SD Card may be a better connectivity option than a USB memory stick because the card is designed for external environments in which the USB stick might be vulnerable to loss or theft.

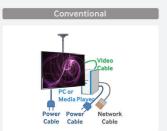




Figure 3. Clutter-free installation at window front

Present brilliant messaging in a slim, highly viewable and aesthetic design

A narrow, 9.3 mm bezel offers a slim, sophisticated appearance with minimal distraction. The slim bezel allows the OMD Series displays to be used in seamless video walls for stunning window and wall displays. In addition, the OMD Series slim-depth panel delivers an efficient use of space while reducing housing design costs.

Rely on OMD Series durability, even in demanding conditions

The OMD Series LCD cell can withstand temperatures as high as 110°C (230°F), ensuring the displays' durability in direct and indirect sunlight environments

In-window digital displays with high brightness tend to generate more noise than ordinary displays and, because the displays are typically installed inside the store's front window, this noise can detract from the store's image. OMD Series signage controls noise at 30 dBA at a 1-meter distance, the equivalent of a whisper in a quiet library.



Figure 4. Heat endurance and low noise for semi-outdoor use

Choose the ideal display type for any business environment

OMD Series provides two models to fit any digital signage environment: OMD-K and OMD-W.

OMD-K is a kit-type panel that is specifically designed for use in various customized housings to serve a wide range of configurations and environmental needs. The OMD-K display has connectivity ports and labels that are exposed on the back side, so it is recommended for use in configurations that cover the rear portion of the display.

OMD-K is ideal for full outdoor environments because of its 2,500 nit brightness, provided the display's housing is designed with the outdoor environment in mind. This means that dust-proofing, water-proofing, cooling system and other considerations must be taken into account when designing the installation.

OMD-W is an aesthetically pleasing standalone panel with a back cover that hides its array of connectivity ports and openings.



Figure 5. Window type and kit type to fit any environment

- * MagicInfo Mobile is compatible with:
- 1. Android 4.0 4.4.2 (Galaxy S3, S4, S5, Galaxy Note2, Note3)
- 2. iOS 6.0 8.0 (iPhone 4, 4S, 5)





OMD-W

46" / 55" / 75"



Connectors



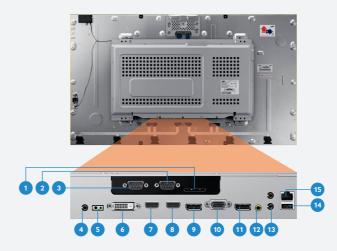
- 1. SD CARD
- 2. RS232C IN
- 3. RS232C OUT
- 4. IR OUT
- 5. CONTROL IN/ALU
- 6. DVI IN
- 7. HDMI IN 1
- 8. HDMI IN 2
- 9. DPIN
- 10. RGB IN
- 11. DP OUT (LOOP OUT)
- 12. AV/COMPONENT IN
- 13. AUDIO IN/OUT
- 14. USB
- 15. RJ45

OMD-K

46" / 55" / 75"



Connectors



- 1. SD CARD
- 2. RS232C IN
- 3. RS232C OUT
- 4. IR OUT
- 5. CONTROL IN/ALU
- 6. DVI IN
- 7. HDMI IN 1
- 8. HDMI IN 2
- 9. DPIN
- 10. RGB IN
- 11. DP OUT (LOOP OUT)
- 12. AV/COMPONENT IN
- 13. AUDIO IN/OUT
- 14. USB
- 15. RJ45





OMD-W/K Specifications

			OM46D-W/K	OM55D-W/K	OM75D-W/K	
	Diagonal Size		46"	55"	75"	
Panel	Type			S-PVA		
	Resolution		1920 x 1080 (16:9)			
	Active Display Area (mm)		1018.08(H) x 572.67(V)	1209.6(H) x 680.4(V)	1650.24(H) x 928.26(V)	
	Brightness (Typ.)			2,500 cd/m2	i	
	Contrast Ratio		5,000:1			
	Viewing Angle (H/V)		178/178			
	Response Time (G-to-G)		6 ms			
	Display Colors		8 bit - 16.7 M			
	Color Gamut		72%			
Display	H-Scanning Frequency		30 - 81 kHZ			
	V-Scanning Frequency		48 - 75 Hz			
	Maximum Pixel Frequency		148.5 MHz			
Sound	Speaker Type			Built-in Speaker (10 W + 10 W) / N/A	1	
		RGB	Analog D-SUB, DVI-D, DisplayPort® 1.2			
	INPUT	VIDEO	HDMI [®] 1, HDMI2, Component (CVBS Common)			
		AUDIO	Stereo Mini Jack			
	OUTPUT	RGB	DP1.2 (Loop-out)			
Connectivity		VIDEO	N/A			
		AUDIO	Stereo Mini Jack			
		Power Out	N/A			
	EXTERNAL CONTROL		RS232C (In/Out), RJ45			
	EXTERNAL SENSOR		Detachable Type (IR, Ambient)			
	Type		Internal			
	Power Supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz			
D	Power Consumption	Max [W/h]	395	495	935	
Power		Typical [W/h]	220	300	550	
		Sleep mode	less than 0.5 W			
		Off mode	less than 0.5 W			
Mechanical	Set Dimensions (mm/in.)		1,035.9 x 590.5 x 139.2 (40.7 x 23.2 x 5.4) / 1,035.9 x 590.5 x 142.9 (40.7 x 23.2 x 5.6)	1,227.4 x 698.2 x 139.5 (48.3 x 27.4 x 5.4) / 1,227.4 x 698.2 x 143.2 (48.3 x 27.4 x 5.6)	1,675.8 x 953.8 x 124.6 (65.9 x 37.5 x 4.9) / 1,675.8 x 953.8 x 123. (65.9 x 37.5 x 4.8)	
		Package	1,123 x 686 x 236 (44.2 x 27 x 9.2)	1,335 x 808 x 265 (52.5 x 31.8 x 10.4)	1,815 x 1,075 x 415 (71.4 x 42.3 x 16.3)	
	Weight (kg/lb)	Set	19.6 (37.2) / 18.7 (41.2)	24 (52.9) / 22.4 (49.3)	48 (105.8) / 42.2 (93)	
Spec		Package	25.1 (55.3) / 24.2 (53.3)	30 (66.1) / 28.4 (62.6)	60 (132.2) / 54.2 (119.4)	
	VESA Mount (mm)		600 x 400	600 x 400	900 x 600	
	Protection Glass		N/A			
	Stand Type		N/A			
	Media Player Option Type		Embedded, SIM (Slide in Module)			
	Bezel Width (mm/in.)		9.3 (0.37) [L/R: 7.8 (0.3), Bottom: 6.5 (0.2)] 11.7 (0.4)			
Operation	Operating Temperature		0°C~ 40°C (w/o Direct Sunlight) / 0°C~ 30°C (w/o Direct Sunlight)			
	Humidity		10~80%			





OMD-W/KS _I	pecifications		OM46D-W/K	OM55D-W/K	OM75D-W/K	
Feature	Key		Extremely High Brightness, Outdoor Kit Solution	Extremely High Brightness, Semi-Outdoor Kit Solution	Extremely High Brightness, Semi-Outdoor Kit Solution	
	Special		Plug and Play, MagicInfo S2, Slide in Module, Digital Daisy Chains (100ea), Lamp Error Detection, Anti Image Retention, Temperature Sensor, RS232C/RJ45 MDC, PIP/PBP, Video Wall (10 x 10), Portrait Installation Support, Button Lock, Smart Scheduling, Wi-Fi Embedded, Sunglasses Viewable, Built-in Speakers (10 W + 10 W, OMD-W only) Cortex®-A9 1 GHz Quad Core CPU			
	Internal Player (Embedded H/W)	Processor On-Chip				
		Cache Memory	L1 (I/D) : 32 KB / 32 KB L2 (Unified) : 1 MB			
		Clock Speed	1 GHz CPU Quad			
		Main Memory Interface	1.5 GB Dual 48 bit DDR3-933 (1,866 MHz)			
		Interface	2D & 3D Graphics Engine			
		Graphics	- Up to 1920x1080. 32 bpp			
			- Supports OpenGL ES			
		Storage (FDM)	8 GB (2 GB Occupied by O/S, 6 GB available)			
			Video Decoder - MPEG-1/2, H.264/AVC (Dual)			
		Multimedia	- MPEG-1/2, H.264/AVC (Dual) - VC-1, JPEG, PNG,VP8			
		.natamodia	Audio DSP (Decoder)			
			- AC3 (DD), MPEG, DTS and etc.			
		IO Ports	USB 2.0			
		Operating		Linux®		
		System	UL (USA) : UL 60950-1			
Certification			C	SA (Canada) : CSA C22.2 No. 60950)-1	
				TUV (Germany): EN60950-1		
			NEMKO (Norway) : EN60950-1			
	Safety		KC (Korea) : K60950-1 CCC (China) : GB4943.1-2011			
			PSB (Singapore) : IEC60950-1			
			GOST (Russia) : IEC60950-1, EN55022			
				SIQ (Slovenia) : IEC60950-1, EN5502		
			PCBC (Poland) : IEC60590-1, EN55022 NOM (Mexico) : NOM-019-SCFI-1998			
			IRAM (Argentina) : IEC60950-1			
			SASO (Saudi Arabia) : IEC60950-1			
	Environment		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 N/A			
Accessories	Included		External IR/Brightness Sensor, Quick Setup Guide, Regulatory Guide, Warranty Card, D-Sub cable, Power Cord, Remote Controller, Batteries			
	Optional	Stand		N/A		
Media Player	•	Mount		N/A	•	
	CPU					
	N/B					
	S/B					
	GPU					
	FDM/HDD			SBB-C (Optional)		
	Memory					
	Ethernet					
		USB				
	Connectivity Output Others					





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For more information

For more information about Samsung OMD Series displays, visit www.samsung.com/business or www.samsung.com/displaysolutions.

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