

# Samsung ME65B and ME75B Large Format Displays

Versatile LFDs with capabilities to support productive business scenarios



## Highlights

- Increase productivity with visual solutions such as sharper, brighter images without shadows and no dazzling or focusing issues with a 240 Hz refresh rate
- Engage audiences with an interactive display that offers the added flexibility of an optional overlay installation touchscreen with Touch Pen
- Enhance the customer experience and save energy with innovative technology featuring the world's first 75-inch edge LED LFD, super-narrow bezel, slim depth and energy-efficient design
- Simplify management with Samsung MagicInfo™ Lite software embedded solutions and a Plug-in Module (PIM)
- Operate displays remotely using RJ45 and RS-232 connections and a Digital Video Interface (DVI) loop out

## Improve image quality and functionality with an energy-efficient LFD

LFDs were originally used strictly for signage. Now their use has expanded into unified productivity devices in the business environment, substituting for traditional projectors, interactive e-boards in meeting rooms and classrooms. Corporate executives also find useful as business intelligence dashboards.

Traditional projectors typically provide poor image quality, annoying shadows and blinding dazzle. They also emit heat, dust and noise, which distract viewer attention. In addition, projectors are expensive to operate and maintain, consuming energy and causing downtime when costly bulbs need replacement.

Once strictly limited to signage, large format displays (LFDs) are now used in place of projectors in a variety of business applications. With innovative advances in touchscreen technology, picture quality and energy efficiency, LFDs are a better, clearer and more cost-effective alternative to projectors.

Samsung ME65B and ME75B LED LFDs offer a smarter solution to lamp-lit projectors with enhanced picture quality, lower power consumption and added versatility. Backlight dimming for broader contrast, a 240 Hz refresh rate for sharper, smoother pictures and a touchscreen overlay option deliver an enhanced viewing experience. In addition, a built-in media player and energy-efficient LED technology help reduce the total cost of ownership (TCO).

Display sharper images without viewer distractions with Samsung backlit LED LFD technology.

## MagicInfo™ Lite software and optional PIM provide management flexibility.

### View ultra-clear pictures without distractions

Samsung ME65B and ME75B LED LFDs deliver high-quality images without the distortion, blur or glare inherent in traditional projectors, providing productive, distraction-free presentations. An ultra-clear panel, backlight dimming and a 240 Hz refresh rate help enhance image detail and readability, providing a better viewing experience.

Enhancements include:

- Reduced light scatter and reflection
- Broader color contrast ratios and deeper blacks
- Sharper, smoother pictures, even when images are moving at high speeds
- Brighter picture quality
- Virtually no visual distortion

### Increase viewer interest with an interactive touchscreen option

For added versatility, the ME65B and ME75B LED displays can be transformed into e-boards with the simplified installation of an optional overlay touchscreen. Four optical cameras, located in each corner of the 65-inch overlay touch accessory, provide a full dual-drawing experience. The 75-inch overlay touch option uses infrared (IR) touch technology and provides a six-point simultaneous touch experience. The displays can also be linked together to create an interactive video wall. A special antiglare film covers the surface of the overlay for a smooth writing surface and a real handwriting feel. Included with the overlay touchscreen are two Touch Pens and Samsung MagicIWB™ (Interactive White Board) software. Also included is a pen tray that incorporates one upstream and two downstream Universal Serial Bus (USB) ports.

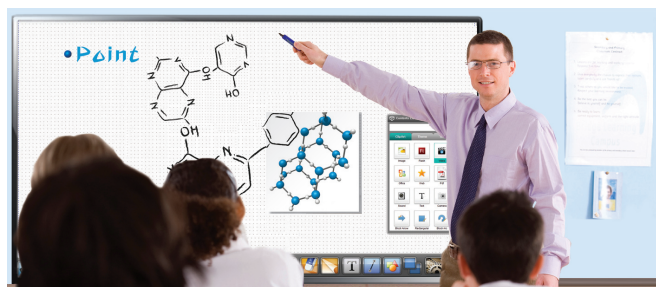


Figure 1. Displays can be transformed into e-boards with optional overlay touchscreens and Touch Pens.

### Project large-scale images and consume less energy with edge-type LED technology

Samsung ME75B LED LFD is the world's first 75-inch edge-type LED, providing a larger viewing area and more energy efficiency than the 70-inch Samsung 700DX-3 cold cathode fluorescent light (CCFL) display. The 65-inch and 75-inch models produce considerably less heat, provide near-silent operation and require less energy to operate compared with traditional projectors. In addition, there are no expensive bulbs to replace, which means there is no downtime spent waiting for a replacement bulb. The result is lower TCO.

When multiple ME65B and ME75B displays are combined to create one video wall, the large screen size and ultra-thin bezels provide near-seamless message delivery. Businesses can plan and deploy large-scale video walls with less display units and less bezels, significantly reducing distractions. The display's slim, lightweight profile is well-suited for environments where space is limited and helps facilitate installation. The ME65B display has a bezel width of 21.5 mm (0.85 in.) and weighs 25.1 kg (55.34 lb). The ME75B display has a bezel width of 12.5 mm (0.49 in.) and weighs 44.1 kg (97.22 lb).

### Streamline management with Samsung embedded solutions

Samsung ME65B and ME75B LED LFDs are designed to help simplify management as well as offer customizing options with embedded solutions for today's sophisticated video demands.

### Eliminate the need for a PC media player with Samsung MagicInfo™ Lite software

Samsung MagicInfo™ Lite digital signage software is standard with ME65B and ME75B LED displays. This all-in-one display solution includes an internal media player, eliminating the need for an external PC. Designed with an intuitive user interface (UI) for ease of use, administrators can manage, organize and schedule content on multiple displays through a web-based interface. The MagicInfo™ Lite software connects to the MagicInfo™ Lite Server to control display functions without a Multi-Display Control (MDC) program. Content can be automatically played through the LFD's internal memory or with a USB thumb drive Plug-and-Play (PNP) feature.

Three PIM options are available to suit specific needs.



Figure 2. Samsung MagicInfo™ Lite all-in-one display solution includes an internal media player and signage software.

### Customize content more easily with an optional Samsung PIM

Display content can be customized with Samsung's optional PIM. This cableless PC solution supports any Open Pluggable Specification (OPS) device that is compatible with Intel® OPS. Designed for ease of installation and use, the compact PIM plugs into the back of the display.

The Samsung PIM adds only 34.4 mm (1.35 in.) additional depth to the 65- and 75-inch ME models. Fully self-contained, the PIM transfers power and signals internally. This feature eliminates the need for unwieldy cables, offering a less cluttered environment. Users can choose from the following three PIM options:

1. Dual core (2 GB of RAM) with Microsoft® Windows® Embedded Standard 7 (WES7), designed for signage with MagicInfo-i™ Premium preinstalled
2. Quad core (4 GB of RAM) with WES7, designed for signage with MagicInfo-i™ Premium preinstalled
3. Quad core (4 GB of RAM, 128 GB solid state drive (SSD) with Windows 7 Professional preinstalled, designed for e-board usage with MagicIWB™ (Interactive White Board) 2.0 Basic preinstalled

Display presentations with versatile options such as a touchscreen overlay and a PIM.

### Control displays remotely with mixed connectivity

Samsung ME65B and ME75B 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 4. Samsung ME65B and ME75B LED displays enable RJ45 and RS-232 connectivity simultaneously.

# Samsung ME65B and ME75B displays offer robust features for superior presentations.

## Features and benefits

Features	Benefits
Ultra-clear panel	Reduce light scatter and reflection for enhanced readability.
Edge backlit LED	Increase energy efficiency and decrease heat emissions, compared with conventional CCFL displays.
Backlight dimming	Deliver broader color contrast and deeper blacks with LED backlight unit control.
240 Hz refresh rate	Project sharper, smoother pictures, even when images are moving at high speeds, reducing blur and visual distortion.
Super-thin bezel	Project near-seamless images without distracting thick bezels.
Ultra-slim profile	Fit displays in limited space.
Lightweight design	Install displays more easily without lifting cumbersome, heavy units.
MagicInfo™ Lite software	Manage, organize, schedule and control displays remotely.
Overlay option	Enhance the user interface with touchscreen flexibility for writing and drawing on the screen.
PIM option	Customize content with an external PC solution and reduce clutter without the need for a PC or unwieldy cables.
Powerful connectivity	Use RJ45 and RS-232 connections simultaneously.
DVI loop out	Share content with nearby displays without the need for separate video signal distributors.

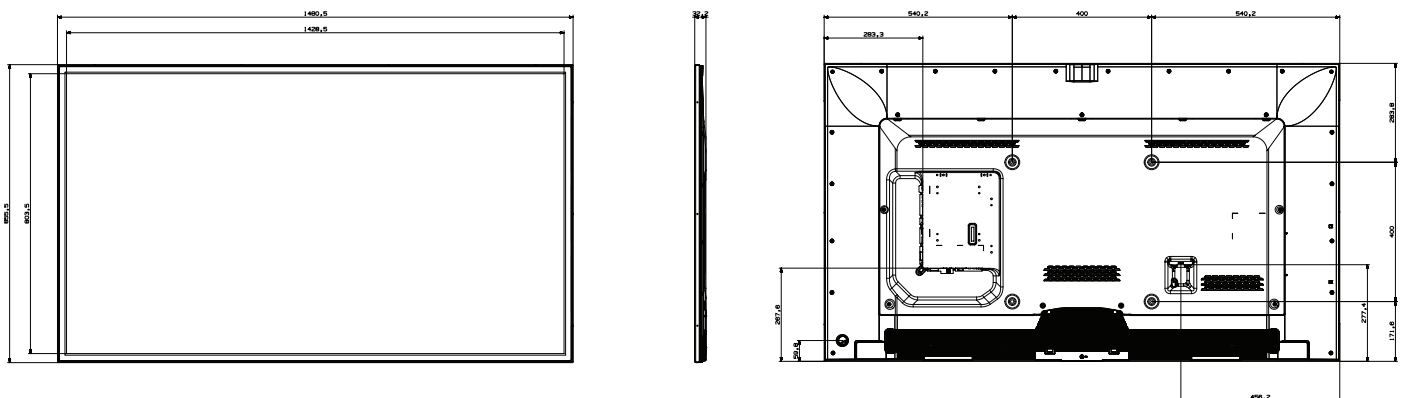


Figure 3. Schematic of model ME65B



# Samsung ME65B and ME75B

## Specifications

		ME65B	ME75B	
Panel	Diagonal size	65 in.	75 in.	
	Type	240 Hz edge LED BLU		
	Resolution	1,920 x 1,080 (16:9)		
	Pixel pitch (H x V)	0.74 mm x 0.74 mm (0.03 in. x 0.03 in.)	0.29 mm x 0.86 mm (0.01 in. x 0.03 in.)	
	Active display area (H x V)	1,428.48 mm x 803.52 mm (56.24 in. x 31.63 in.)	1,650.24 mm x 928.26 mm (64.97 in. x 36.55 in.)	
	Brightness (Typ.)	450 cd/m <sup>2</sup>	550 cd/m <sup>2</sup>	
	Contrast ratio	5,000:1		
	Viewing angle (H/V)	178/178		
	Response time (G-to-G)	5.5 ms	4 ms	
	Display colors	10 bit dithering - 1.07 billion	10 bit dithering - 1.07 billion	
	Color gamut	72%		
	Display	Dynamic C/R	100,000:1 (AV mode)	
H-scanning frequency		30 - 81 kHz		
V-scanning frequency		56 - 75 Hz		
Maximum pixel frequency		148.5 MHz		
Connectivity	Input	RGB	Analog D-sub, DVI-D, DisplayPort	
		Video	Component (CVBS common), HDMI	
		Audio	Stereo mini jack	
	Output	RGB	DVI-D	
		Video	N/A	
		Audio	Stereo mini jack	
		Power out	N/A	
	External control	RS-232C (in/out) thru stereo jack, RJ45		
	External sensor	IR, ambient light		
Power	Type	Internal		
	Power supply	AC 100 - 240 V (+/- 10%), 50/60 Hz		
	Power consumption (w/o PIM)	Max (W/h)	290 W (all regions)	375 W (all regions)
		Typical (W/h)	180 W (W/W), 107 W (North America, Korea)	280 W (W/W), 120 W (N/A, Korea)
		BTU (Max)	647.9 BTU (all regions)	1,278.75 BTU (all regions)
		Sleep mode	Less than 1 W	
Off mode		Less than 1 W		

# Samsung ME65B and ME75B

## Specifications, continued

			ME65B	ME75B	
Mechanical Specs	Dimension	Set	1,480.5 mm x 855.5 mm x 32.2 mm (58.29 in. x 33.68 in. x 1.27 in.)	1,678.2 mm x 958.7 mm x 49.9 mm (66.07 in. x 37.74 in. x 1.96 in.)	
		Package	1,641 mm x 220 mm x 988 mm (64.61 in. x 8.66 in. x 38.9 in.)	1,863 mm x 1,173 mm x 473 mm (73.35 in. x 46.18 in. x 18.62 in.)	
	Weight	Set	25.1 kg (55.34 lb)	44.1 kg (97.22 lb)	
		Package	32.2 kg (70.99 lb)	69.7 kg (153.66 lb)	
	VESA mount	400 mm x 400 mm (15.75 in. x 15.75 in.)			
	Stand type	Foot stand (optional)		Stand (optional)	
	Media player option type	Embedded, PIM			
Bezel width	21.5 mm (0.85 in.)		12.5 mm (0.49 in.) (bottom 15 mm (0.59 in.))		
Operation	Operating temperature	0°C - 40°C (32°F - 104°F)			
	Humidity	10 - 80%			
Feature	Key	Slim and light LFD with built-in MagicInfo™ Lite			
	Special	Narrow bezel, slim depth, PIM module, digital daisy chains, temperature sensor, RS-232C and RJ45 MDC, video wall (10 x 10), pivot display, Smart Scheduling, built-in MagicInfo™ Lite, built-in speaker (10 W + 10 W), Plug-and-Play (through USB)	Narrow bezel, slim depth, PIM module, digital daisy chains, lamp error detection, temperature sensor, RS-232C and RJ45 MDC, video wall (10 x 10), pivot display, Smart Scheduling, built-in MagicInfo™ Lite, built-in speaker (15 W + 15 W), Plug-and-Play (through USB)		
	Internal player (embedded H/W)	Processor	Cortex-A8 single core CPU with NEON DSP		
		On-chip cache memory	L1 (I/D): 32 KB/32 KB L2 (Unified): 512 KB		
		Clock speed	Up to 800 MHz		
		Main memory interface	Dual 32 bit DDR3-667 (1,333 MHz)		
		Graphics	2D and 3D graphics engine - Up to 1,920 x 1,080, 32 bpp - Supports OpenGL ES		
		Storage (FDM)	4 GB (1.2 GB occupied by O/S, 2.8 GB available)		
		Multimedia	Video decoder - MPEG-1/2, H.264/AVC (Dual) - VC-1, JPEG, PNG Audio DSP (decoder) - AC3 (DD), MPEG, DTS and so on		
		Host bus	PCIEx 2.0		
IO ports		USB 2.0			
Operating system	Linux®				

# Samsung ME65B and ME75B

## Specifications, continued

			ME65B	ME75B
Certification	Safety		cUL (USA+Canada): UL60950 TUV (Germany): EN60950 CB (Europe): IEC60950/EN60950 EK (Korea): K60950 CCC (China): GB8898 PSB (Singapore): IEC60950 GOST (Russia): IEC60950, EN55022 SIQ (Slovenia): IEC60950, EN55022 PCBC (Poland): IEC60950, EN55022 NOM (Mexico): NOM-001-SCFI-1993 IRAM (Argentina): IRAM SASO (Saudi Arabia): IEC60950	
	EMC		FCC (USA): FCC Part 15, Subpart B class A 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® 5.0 (USA)	N/A
Accessories	Included		Quick Setup Guide, warranty card, application CD, power cord, remote controller, batteries, D-sub cable RS-232C to stereo gender in/out cable, external IR sensor	Quick Setup Guide, warranty card, application CD, power cord, remote controller, batteries, D-sub cable RS-232C to stereo gender in/out cable
	Optional	Stand	STN-L4055AD	STN-L75D
		Mount	WMN4655MD WMN4675MD (TBD)	WMN4655MD (landscape only) WMN4675MD (TBD)
		Specialty	N/A	N/A
Media player		SBB-A (SBB-D16AX / SBB-D32AX2 / SBB-D32AV2 / SBB-Q16AX4 / SBB-Q32AX4 / SBB-Q32AV4) PIM (SBB-PD32BV2 / SBB-PQ32BV4 / SBB-PQ28BP4)		

## Legal and additional information

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### About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. is a global leader in semi-conductor, telecommunication, digital media and digital convergence technologies with 2011 consolidated sales of US\$143.1 billion. Employing approximately 222,000 people in 205 offices across 71 countries, the company operates two separate organizations to coordinate its nine independent business units: Digital Media & Communications, comprising Visual Display, Mobile Communications, Telecommunication Systems, Digital Appliances, IT Solutions, and Digital Imaging; and Device Solutions, consisting of Memory, System LSI and LCD. Recognized for its industry-leading performance across a range of economic, environmental and social criteria, Samsung Electronics was named the world's most sustainable technology company in the 2011 Dow Jones Sustainability Index. For more information, please visit [www.samsung.com](http://www.samsung.com).

### For more information

For more information about Samsung ME65B and ME75B LED LFDs, visit [www.samsunglfd.com/index.do](http://www.samsunglfd.com/index.do).



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

[www.samsung.com](http://www.samsung.com)

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