Samsung ED Series (ED65C, ED75C)

Clear, crisp image quality and touchscreen options in energy-efficient 65-inch and 75-inch LED displays

Highlights

- Project bright, clear, large-scale images for superb content delivery
- Consume less energy with slim, direct LED (d-led) BLU (backlight unit) technology
- Increase viewer interest with an interactive touchscreen option
- Customize content with an optional Plug-in Module (PIM)
- Control displays remotely with mixed connectivity

Capture audience attention with crisp pictures and flexible message options

Corporations are looking for better communication and collaboration tools for their presentations, and the retail market needs enhanced branding and merchandising tools to attract customers. Both markets want to engage their audiences with impactful, visual images for an immersive, interactive viewer experience. In addition, companies want to reduce startup and operational costs. As a result, they are turning to large format displays (LFDs) to fill their needs.

Samsung ED Series (ED65C, ED75C) d-led BLU displays provide enhanced viewing compared with traditional projectors and cumbersome cold cathode fluorescent lamp (CCFL) large format displays (LFDs). Unlike conventional LFDs, ED Series LFDs decrease room clutter and distractions by operating without separate video signal distributors, additional media players and other devices.

This advantage reduces operational costs by providing the viewing benefits of LFDs without the need for external equipment. A slim, lightweight profile provides simplified installation and enables 65-inch and 75-inch ED Series displays to fit into areas that have limited depth.

The d-led BLU displays deliver consistent high brightness regardless of surrounding light conditions, and require less electricity than conventional LFDs, increasing energy efficiency.

Ultra-thin bezels reduce viewer distractions while enhancing the unit's appearance. An overlay touchscreen option encourages audience interactivity, while an optional PIM provides content customization without requiring an external PC.

ED Series displays offer powerful connectivity with a built-in RS-232C connection. Users can remotely and conveniently manage multiple displays from one central location.

Attract viewers with large, sharp images and clear text

ED Series (ED65C, ED75C) displays are a superior vehicle for getting messages noticed and a preferred alternative to traditional projectors and CCFL displays. Samsung d-led BLU technology delivers enhanced picture quality, broader color contrast and added depth to black hues.

Engage the viewer with an interactive touchscreen and access to multiple media sources

Improved readability is achieved by a glare-proof surface, which reduces light scatter and reflection while providing enhanced contrast ratio. A 320 nit brightness level also enables easier reading regardless of the amount of light in the room. Rapid refresh rates from 120 Hz to 240 Hz project sharp, smooth pictures, even when images are moving quickly. Movies, sports and games can be viewed with less blur and visual distortion. In addition, a narrow bezel design helps the customer focus on the message rather than the device delivering it.

Figure 1. Samsung ED65C, 75C provide high-performance messaging.

Samsung ED Series (ED65C, ED75C) displays provide viewers with an exciting experience applicable to various scenarios such near-fullscale fashion display or clear and legible large-conference display.

Conserve energy with efficient d-led BLU technology

Samsung d-led BLU technology requires less electricity to operate while delivering improved image quality compared with projectors and CCFL LFDs. Because ED Series LFDs also radiate less heat, they consume less power, reducing energy costs by up to 35 percent, according to Samsung internal testing. Operating at lower temperatures helps increase the screen's durability and lowers room temperatures, saving cooling costs. Less carbon dioxide (CO_2) is also emitted, helping to conserve the environment.

Figure 2. Samsung LED backlight technology uses less power for optimal energy efficiency.

Enhance the viewing experience with an overlay touchscreen option

To encourage viewer interaction, an ED Series LFD can be transformed into an e-Board with whiteboard capabilities by installing an optional overlay touchscreen. A special antiglare film covers the surface of the overlay, providing a smooth writing surface. A real handwriting feel is achieved by using the two included Touch Pens and Samsung MagicIWB™ (Interactive White Board) software.

The touchscreen is designed for easy installation by simply placing the overlay over the screen, pushing down on the holders and tightening a few screws. An included pen tray is equipped with one upstream and two downstream USB ports.

Access a wide choice of digital content with upgraded connectivity

Deliver rich content with an optional PIM

Using the optional PIM, businesses can customize various types of content by transferring power and signals internally through cableless access to multiple media souces. This option eliminates the need to purchase an external PC. The PIM supports Open Pluggable Specifications (OPS) devices that are compatible with Intel® OPS. In additon, the PIM reduces clutter from excess cables for more pleasing and less distracted customer viewing.

Organizations can choose from among three PIM models:

- **Dual core, 2 GB RAM with Microsoft® Windows® Embedded Standard 7 (WES7).** Designed for signage with the included MagicInfo™-i Premium software.
- **Quad core, 4 GB RAM with WES7.** Designed for signage with the included MagicInfo™-i Premium software.
- **Quad core, 4 GB RAM, 128 GB solid state drive (SSD) with Windows 7 Professional® installed.** Designed for e-Board usage with the included MagicIWB™ (Interactive White Board) 2.0 Basic software.

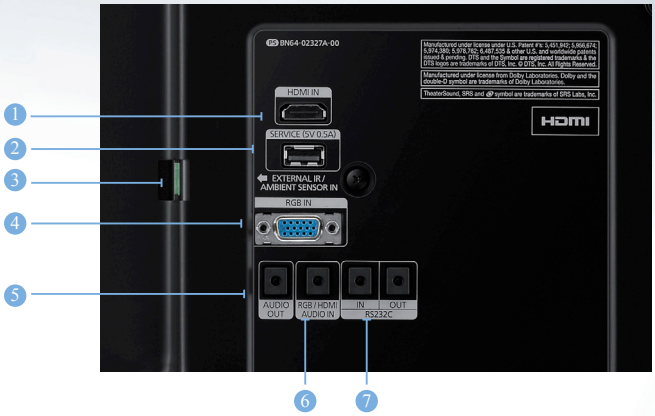
Manage displays remotely with powerful connectivity

ED Series displays offer robust connectivity with a built-in RS-232C connection. Using a Digital Visual Interface (DVI) loop out, a single display image can be shared with nearby displays. This capability eliminates the need to purchase separate video signal distributors for each display, reducing equipment costs. The displays also have built-in stereo speakers to enhance the impact of messages.

ED65C / ED75C

65" / 75"

Connectors



1. HDMI IN
2. SERVICE (5V 0.5A)
3. EXTERNAL IR / AMBIENT SENSOR IN
4. RGB IN
5. AUDIO OUT
6. RGB / HDMI AUDIO IN
7. RS232C (IN / OUT)

Specifications

Model			ED65C	ED75C
Panel	Diagonal size		65 in.	75 in.
	Type		60 Hz LED BLU	240 Hz LED BLU
	Resolution		1,920 × 1,080 (16:9)	
	Pixel pitch (H/V)		0.248 mm (H) x 0.744 mm (V) (0.009 in. x 0.029 in.)	0.287 mm (H) x 0.860 mm (V) (0.011 in. x 0.034 in.)
	Active display area (H/V)		1,428.48 mm (H) x 803.52 mm (V) (56.24 in. x 31.64 in.)	1,650.24 mm (H) × 928.26 mm (V) (64.97 in. x 36.55 in.)
	Brightness (typical)		320 nit	
	Contrast ratio		4,000:1	
	Viewing angle (H/V)		178:178	
	Response time (G-to-G)		6.5 ms	4 ms
	Display colors		10-bit dithering, 1.07 billion	10-bit dithering, 1.07 billion
	Color gamut		70%	
Display	Dynamic C/R		50,000 : 1(AV Mode)	
	H-Scanning Frequency		30 ~ 81kHZ	
	V-Scanning Frequency		48 ~ 75HZ	
	Maximum Pixel Frequency		148.5MHz	
Connectivity	Input	RGB	Analog D-sub	
		Video	HDMI	
		Audio	Stereo mini jack	
	Optional	Audio	Stereo mini jack	
	External sensor		Yes	
	External control		RS-232C (in/out) through stereo jack	

Samsung ED Series (ED65C, ED75C)

Specifications

Model			ED65C	ED75C
Power	Type		Internal	
	Power supply		AC 100 - 240 V (+/- 10 %), 50/60 Hz	
	Power consumption	Max (W/h)	290	360
		Typical (W/h)	180	247
		BTU(Max)	988.9	1227.6
		Sleep mode	Less than 1 W	
		Off mode	Less than 1 W	
Mechanical specifications	Dimension	Set	1467.4 x 848.0 x 64.9	1675.0 x 959.1 x 64.8
		Package	1600 x 980.5 x 217	1853 x 1100 x 488
	Weight	Set	26.8	28.8
		Package	33.6	48.8
	VESA mount		400 mm x 400 mm (15.75 in. x 15.75 in.)	
	Stand type		Foot stand (optional)	
	Media player option type		PIM	
	Bezel width		18.0 mm (bottom 23.5 mm)	10.9 mm (bottom 16.9 mm)
Operation	Operating temperature		0°C – 40°C (32°F – 104°F)	
	Humidity		10 – 80%	
Feature	Key		LED LFD	
	Special		Built-in speaker (10 W + 10 W), PIP/PBP, narrow bezel, light weight, RS-232C In/Out, 1 D-sub and 1 HDMI	
Certification	Safety		EN60950-1	
	EMC		Class A	

Specifications

Model			ED65C	ED75C
Accessories	Included		Quick Setup Guide, warranty card, application CD, D-sub cable, power cord, remote controller, batteries	
	Optional	Stand	STN-L4055AD	STN-L75E
		Mount	WMN4675MD(for Video wall W/M)	
		Specialty	CML450D (Ceiling Mount)	
Media Player	CPU		PIM	
	N/B			
	S/B			
	GPU			
	FDM/HDD			
	Memory			
	Ethernet			
	Connectivity	USB		
		Output		
		Others		

About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. is a global leader in technology, opening new possibilities for people everywhere. Through relentless innovation and discovery, we are transforming the worlds of televisions, smartphones, personal computers, printers, cameras, home appliances, LTE systems, medical devices, semiconductors and LED solutions. We employ 236,000 people across 79 countries with annual sales of US$187.8 billion. To discover more, please visit www.samsung.com.

For more information

For more information about Samsung ED Series (ED65C, ED75C), visit www.samsung.com/business.

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

www.samsung.com

2013-07