46" LED Professional LCD Display

- LED Backlight
- Ultra-Slim, Ultra-Light
- Clear Picture Quality
- High Speed Video with 120 Hz

The Samsung EX-Series professional LCD displays (400EX, 400EXn, 460EX, 460EXn, 550EX, 550EXn) are an incredible 1.6" thin. They're the thinnest, lightest 40", 46" and 55" professional LCD displays from Samsung, thanks to LED backlight technology. LED is also more energy-efficient, consuming 30% - 50% less energy than a similarly sized conventional CCFL backlight display. A 120 Hz panel refresh rate enables sharp scrolling type, while 10,000:1 dynamic contrast ratio delivers deeper, more dramatic dark tones and brighter, more striking light tones.

Eco-Friendly Display with LED Backlight

The Samsung EX Series LED LCD displays reduce energy consumption from 30 - 50% (depending on screen size) compared to conventional CCFL backlit LCD displays. Samsung's state-of-the-art LED BLU (Back Light Unit) technology has facilitated this breakthrough in Green Technology Solutions by eliminating mercury, reducing energy consumption and making it easier to recycle.

Ultra-Slim, Ultra-Light

The ultra-slim, ultra-light design of the Samsung LCD LED commercial displays provide a new era of elegance and efficiency. The 460EX has an ultra-slim style that effortlessly draws your eyes to the screen and its ultra-light design enables easier installation and maintenance. It's a high-impact display that saves space with style.

Clear Picture Quality

Samsung's LED backlight technology provides clear picture quality with high contrast levels and 80% color gamut, providing clear images and improved color saturation.

High Speed Video with 120 Hz

Operating at twice the speed of conventional 60 Hz displays, our 120 Hz displays are ideal for high-speed video and scrolling text, delivering advertising and information with complete clarity and seamless speed.

Full HD Images

The 460EX is designed to be adaptable to any public display usage. Featuring Full HD images, expanded digital connectivity and multi-display control, it allows you to create a digital display environment that is always clear and displaying

the highest resolution images.

Efficient and Reliable

Samsung's revolutionary EX Series LED LCD Displays are easier for integrators and customers to install with its 1.6" ultra-slim design and reduced weight. The EX Series is Energy Star 5.0 compliant (excluding embedded PC models) and conforms to the ADA standards for wall mounting.

Total Cost of Ownership

The EX Series LED LCD Displays are ultra-slim and lightweight. Samsung's LED edge-lit backlight technology allows for an ultra-slim 1.6" chasis depth (including embedded PC), providing significant weight savings of 35 - 40% (depending on screen size) compared to conventional CCFL LCD displays.

Panel	Diagonal Size	46"	
	Type	120 Hz LED BLU	
	Resolution	WXGA 1,920 x 1,080 (16:9)	
	Pixel Pitch(mm)	0.17675 (H) x 0.53025 (V)	
	Active Display Area(mm)	1,018.08 (H) x 572.67 (V)	
	Brightness(Typ.)	450 cd/m²	
	Contrast Ratio	5,000:1	
	Viewing Angle(H/V)	178° / 178°	
	Response Time(G-to-G)	9 ms	
	Display Colors	10 bit Dithering ~ 1.07 Billion	
	Color Gamut	80%	
Display	Dynamic C/R	10,000:1	
	H-Scanning Frequency	30 kHz ~ 81 kHz	
	V-Scanning Frequency	56 Hz ~ 85 Hz	
	Maximum Pixel Frequency	148.5 MHz	
Connectivity	Input	RGB	Analog D-SUB
		Video	HDMI
		Audio	Stereo mini Jack
	Output	RGB	DVI-D (Loop-out)
		Audio	Stereo mini Jack
	External Control	RS232C (in / out), LAN RJ45	
Power	Type	Internal	
	Power Supply	AC 100 ~ 240 V ~ (+ / - 10%), 50 / 60 Hz	
	Power Consumption	On Mode	160 W (max) / 140 W (typ)
		Sleep Mode	Less than 2 W

		Off Mode	Less than 1 W
Mechanical Spec	**Dimension (mm)**	**Set**	42.61" x 25.77" x 1.57"
		Package	47.6" x 30.35" x 7.83"
	Weight (kg)	**Set**	37.48 lbs
		Package	45.19 lbs
	VESA Mount	400 x 400 mm	
	Protection Glass	Optional	
	Stand Type	Foot Stand (optional)	
Operation	**Operating Temperature**	32 °F ~ 104 °F	
	Humidity	10 ~ 80 %	
Features	**Special**	Lamp Error Detection, Anti Retention, Temperature Sensor, RS232C / RJ45 MDC, Built in Speaker (10 W + 10 W), Plug and Play (DDC2B), PIP / PBP, Video Wall (10 x 10), Pivot Display, Button Lock, Digital Daisy Chain	
Certification	**Safety**	UL (USA): UL 60950-1CSA (Canada): CSA C22.2 No. 60950-1 TUV (Germany): EN60950-1NEMKO (Norway): EN60950-1 KC (Korea): K60950-1 CCC (China): GB 4943-2001PSB (Singapore): IEC60950-1GOST (Russia): IEC60950-1, EN55022SIQ (Slovenia): IEC60950-1, EN55022PCBC (Poland): IEC60590-1, EN55022NOM (Mexico): NOM-019-SCFI-1993IRAM (Argentina): IEC60950-1SASO (Saudi Arabia): IEC60950-1	
	EMC	FCC (USA) FCC Part 15, Subpart B class BCE (Europe) EN55022, EN55024VCCI (Japan) V-3 (CISPR22) KCC (Korea): KN22, KN24BSMI (Taiwan): CNS13438 (CISPR22) C-Tick (Australia): AS / NZS3548 (CISPR22) CCC(China): GB 9254-2008, GB 17625.1-2003	
	Environment	ENERGY STAR 5.0 (USA)	
Accessories	**Included**	Quick Setup Guide, Warranty Card, Application CD, D-Sub cable, Power Cord, Remote Controller, Batteries	
	Optional	**Mount**	WMN4270SWMN1000B (Ultra Slim type)
		Specialty	CML500D (ceiling mount), STN-520WE (welcome Board)

Features and specifications are subject to change without prior notification.