

## LED Widescreen Ultra HD Display

### ▶ 84WS70MS-B

84" class (84.04" measured diagonally)



## Features

### REDUCED TCO (Total Cost of Ownership)

The 84WS70MS-B display is Energy Star® 5.1 compliant consuming approximately 40% less energy than noncompliant models. In standby mode, it uses less than one watt of power and meets the environmental regulations while excluding the use of harmful materials (RoHS) and reducing CO2 emissions.

### BEZEL WIDTH

This aesthetically superior display has the bezel width of 27.9mm that offers an elegant but modern look that will work well with any decor.

## Specifications

Native Display Resolution 3840 x 2160 (Ultra HD)

High Brightness 500 cd/m<sup>2</sup>

Contrast Ratio 1,400:1 (Typ.), 500,000:1 (DCR)

178°/ 178° Ultra Wide Viewing Angle

Can be installed in Portrait or Landscape mode

RGB input/output (1)

DVI-D input/output (1)

HDMI input (2)

DisplayPort input (1)

Convenient External Speaker-Out

Smart Energy Saving

Bezel Width 27.9mm

Temperature Sensor

USB Playback

3-Year Limited Warranty Parts/Labor/Backlight



## NO BLACKENING DEFECT

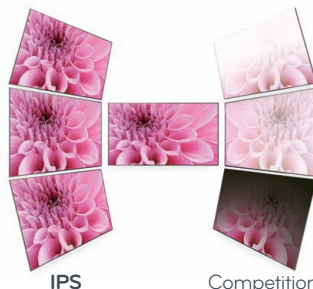
Display has a built-in temperature control that adjusts to light and heat eliminating dark or blackened areas.



If the outdoor temperature is 86°F the surface temperature of display is 185°F

## TRUE WIDE VIEWING

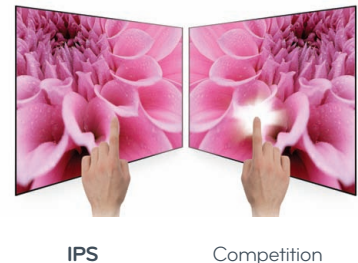
Color shifts and distortion are eliminated from any viewing angle.



Color change average @ 60°  
Gamma change average @ 60°

## PANEL STABILITY

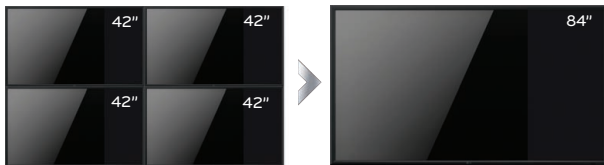
Minimized image distortion and shows no tailing when external pressure is applied.



IPS Competition

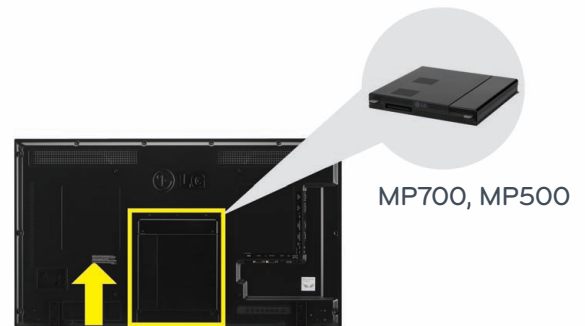
## 84" Edge LED Large Screen

The sheer size of the screen, equal to four 42-inch class displays, gives you a breathtaking viewing experience. The picture is so big and immersive, it's as if you're in the scene and part of the action.



## Attachable External Media Players (sold separately)

Slim design LG media players can be installed conveniently in the back without taking up additional space.



Slot type Media Player

## Super High Resolution 3,840 x 2,160 (Ultra HD)

Boasting a pixel resolution 4X higher than Full HD (1080p), its detail is so vivid and crisp, even when viewed from a close distance.



## When using the MP700 follow these tips to achieve the best playback quality

Create content based on the same resolution as the digital signage monitor

Video content should be encoded at above an optimum level of bit rate

- Playback content larger than its original size
- Increasing bit rate will improve the quality of content, but requires high performing CPU
- Dynamic content such as sports may require a higher bit rate

Recommended content creation when using a CPU i7 2.x GHz

Recommendation	Ultra HD Signage	FHD Signage	HD Signage
Resolution	3,840 x 2,160	1,920 x 1,080	1,366 x 768
Bit Rate	80~120Mbps (full motion video) over 40Mbps (slideshow video)	over 20 Mbps (full motion video) above 10Mbps (slideshow video)	10 Mbps (full motion video) over 5Mbps (slideshow video)
Appropriate FPS/Hz	30 FPS	30 FPS	30 FPS
Codec	H.264>MPEG4>MPEG2 (bigger file size)	H.264>MPEG4>MPEG2 (bigger file size)	H.264>MPEG4>MPEG2 (bigger file size)
Codec Pack	K-Lite CodecPack	K-Lite CodecPack	K-Lite CodecPack



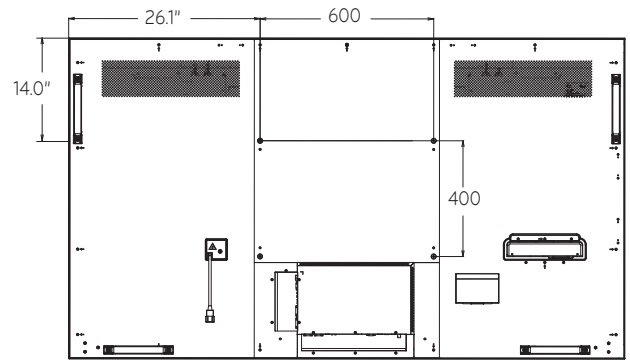
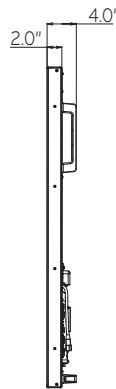
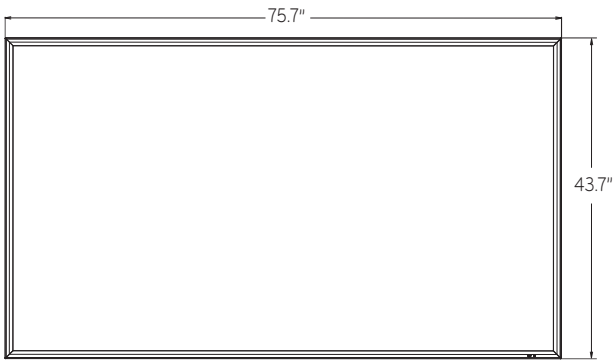
LIFE'S GOOD...

## when it's green.

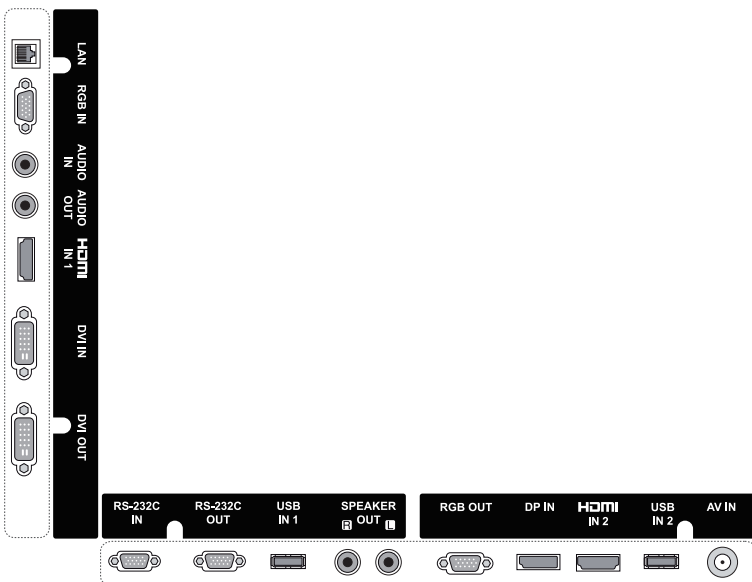
LG is committed to improving product development, manufacturing and usage to meet the demand for products with environmentally friendlier features. Our Display has technologies to reduce power consumption and in return increase cost savings per room.

### EcoSmart

- **Intelligent Sensor** - Continually monitors room light conditions to automatically optimize the picture quality for a more enjoyable viewing experience, which can help save energy.
- **Dynamic Power Savings** - Using built-in algorithms, Display will automatically reduce the power consumption based on incoming video, while maximizing picture performance.
- **Static Power Savings** - Picture brightness level can be set at the preferred power consumption level to reduce power and increase energy savings.
- **CEC Compliant** - Meets the Appliance Efficiency Regulations of the California Energy Commission.
- **RoHS Compliant** - Meets directive on restriction of hazardous substances.



Rear Jack Panel



# LED Widescreen Ultra HD Display

▶ 84WS70MS-B

84" class (84.04" measured diagonally)



PANEL	Model	84WS70MS-B
	Screen Size	84" (84.04" measured diagonally)
	Panel Technology	IPS
	Aspect Ratio	16 : 9
	Native Resolution	3840 x 2160 (UD)
	Pixels[H x V x 3]	24,883,200
	Brightness	500 cd/m <sup>2</sup>
	Contrast Ratio	1,400:1
	Dynamic CR	500,000 : 1
	Color Gamut	72%
	T <sub>ni</sub>	110°C (=230°F)
	Viewing Angle	178° / 178°
	Color Depth	1.06 Billion
	Response Time	12ms (G to G)
	Surface Treatment	Anti-glare(Haze <10%)
	Orientation	Portrait and Landscape
VIDEO (PC)	Max Input Resolution	3840 x 2160@30Hz (HDMI, Display Port) 1920 x 1080@60Hz (RGB, DVI-D)
	Rec. Resolution	3840 x 2160@30Hz(HDMI, Display Port)
	H-Scanning Freq	30 ~ 83kHz (RGB, HDMI/DVI-D/DP)
	V-Scanning Freq	56Hz ~ 75Hz (RGB), 56Hz~60Hz (HDMI/DVI-D/DP)
	Pixel Frequency	300MHz(HDMI, Display Port) 148.5MHz(RGB, DVI-D)
	Sync Compatability	Separate, Composite, Digital
	Video Input	RGB, HDMI, DVI-D, Display Port, Composite
	Picture mode	Intelligent Sensor/Vivid / Standard / Cinema / Game/ Expert1/Expert2
	Color temperature	Warm, Medium , Cool
CONNECTIVITY INPUT (Rear)	Digital	HDMI(2), DVI-D(1) with HDCP for all input
	Analog	RGB(1), Composite(1)
	Audio	RGB/DVI-D/AV
	External Control	RS232C(1), RJ45(1), IR(1)
	USB	USB(2)
	HDTV Formats	Component: 720p, 1080i, 1080p HDMI: 720p, 1080i, 1080p, 2160p
OUTPUT (Rear)	Digital	DVI-D(1)
	Analog	Option1 (Included): RGB(1)
	Audio	Yes(1)
	External Control	RS232C(1), IR(1)
AUDIO	Balance	Yes
	Audio Power	20W (10W x 2)
	Speaker on/off	Yes
	Clear Voice II	Yes
	Sound Mode	Standard / Music / Cinema / Sport / Game /Vivid/ User Setting

PHYSICAL SPECIFICATIONS	Model	84WS70MS-B
	Color	Black
	Bezel Width	27.9mm
	Monitor Dimensions	75.7" x 4.0" x 43.7" (W x H x D) (head only)
	Monitor Weight	160.7 lbs. (head only)
	Carton Dimensions	80.0" x 12.4" x 47.8 (W x H x D)
	Packed Weight	192.2 lbs.
	Handle	Yes
	VESA™ Standard Mount Interface	600mm x 400mm
SPECIAL FEATURES	Temperature Sensor	
	Auto Brightness Sensor	
	Source Selection: AV, Component, RGB, Display Port, DVI-D, HDMI	
	Brightness/Contrast/Backlight Position/Size	
	Auto Config/Phase	
	Language (OSD)	English, French, German, Spanish, Italian, Korean , Chinese(Simplified), Chinese(Original), Portugues(Brazil), Swedish, Finnish, Norwegian, Danish, Japanese, Russian, Portugues(Europe), Dutch, Czech, Greek
	Language (USB Playback)	English, French, German, Spanish, Italian, Korean , Chinese(Simplified), Chinese(Original), Portugues(Brazil), Swedish, Finnish, Norwegian, Danish, Japanese, Russian, Portugues(Europe), Dutch, Czech, Greek
	Language (Manual)	English, French, German, Spanish, Portugues, Hungarian, Greek, Russian, Dutch, Kazakh, Ukrainian, Polish, Arabic, Indonesian, Korean, Japanese, Turkish, Czech, Taiwanese, Slovak
	Language (ESG)	English, French, Italian, German, Spanish, Portugues, Greek, Polish, Czech, Slovak
	ISM Method	Normal, White Wash, Orbiter, Inversion
	Advanced	Dynamic Contrast, Dynamic Color, Clear White, Skin Color, Noise Reduction, Digital Noise Reduction, Gamma, Black Level
	Time	Clock, On/Off Time, Sleep Timer, Power on Delay, Auto Off, Automatic Standby
	Information	Model/Type, Software Version, Serial Number, IP Address, MAC Address, Homepage
	Input Label	Yes(PC/DTV)
	Auto Power/Source Memory	Yes
	Key Lock	
	DPM Select	
	Energy Saving Yes (Minimum, Medium, Maxium)	
	Smart Energy Saving	
	Power Indicator On/Off	
	File Play with USB	
ENVIRONMENT CONDITIONS	Operation Temp.	0°C ~ 40°C
	Operation Humidity	10% ~ 80%
POWER	Power Supply	100 -240V~, 50/60Hz
	Power Consumption	Normal (Typical) 350W Smart Energy Saving on 200W DPMS Off 1.5W(RGB) Power Off 0.5W
STANDARD CERTIFICATION	Safety	UL / cUL / CB scheme / TUV
	EMC	FCC Class "A", VCCI, C-tick, CE, KCC
MEDIA PLAYER COMPATIBILITY	Yes (MP500, MP700)	
WARRANTY	3-Year Limited Warranty (Parts/Labor/Backlight)	
UPC	7 19192 19191 4	
OPTIONAL ACCESSORIES	D-Sub Cable, Power Cord, Remote Controller(include battery 2ea ), CD(Manual/Elite-C), Eye Bolt(2EA) Media Player: MP700/MP500	



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