



DIGISIGN

LED Widescreen Ultra HD Display

▶ 84WS70MS-B

▶ 84WS70BS-B

84" class (84.04" measured diagonally)



84WS70MS-B shown
(84WS70BS-B supports
landscape only)

Features

REDUCED TCO (Total Cost of Ownership)

The 84WS70MS-B and 84WS70BS-B display are 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)

Brightness 500 cd/m² (84WS70MS-B)

350 cd/m² (84WS70BS-B)

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



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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

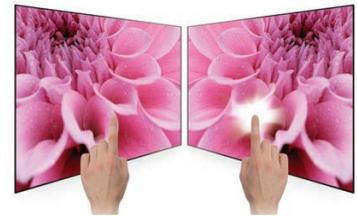
Color shifts and distortion are eliminated from any viewing angle.



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 |



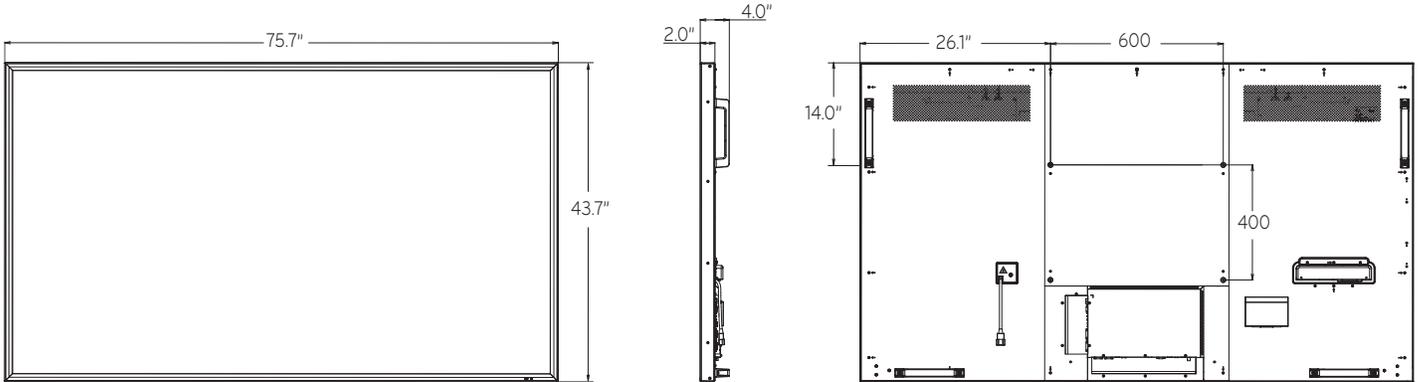
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when it's green.

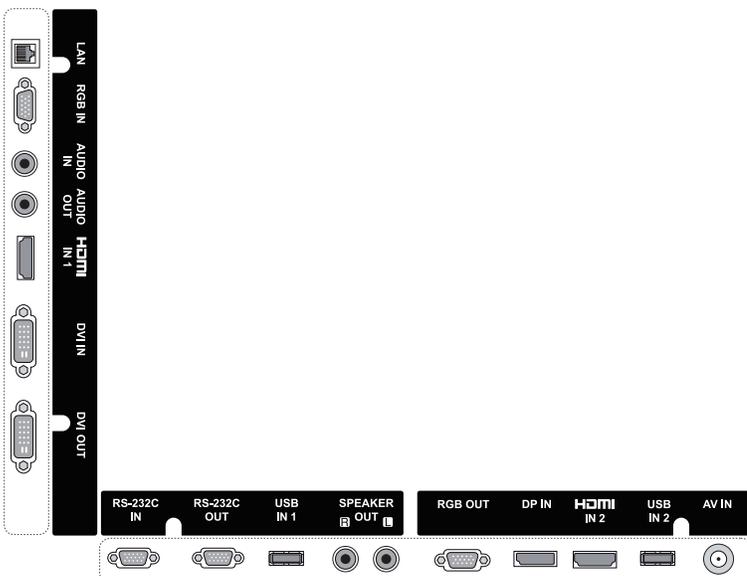
LG is committed to improving product development, manufacturing and usage to meet the demand for products with environmentally friendlier features. Our Display has technologies to reduce power consumption and in return increase cost savings per room.

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

▶ 84WS70BS-B



84" class (84.04" measured diagonally)

| PANEL | Model | 84WS70MS-B | 84WS70BS-B | |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--|
| PHYSICAL SPECIFICATIONS | 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 ² | 350 cd/m ² | |
| | Contrast Ratio | 1,400:1 | | |
| | Dynamic CR | 500,000 : 1 | | |
| | Color Gamut | 72% | | |
| | T _{ni} | 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 | Landscape only | |
| | SPECIAL FEATURES | Temperature Sensor | Yes | |
| Auto Brightness Sensor | | Yes | | |
| Source Selection: AV, Component, RGB, Display Port, DVI-D, HDMI | | | | |
| Brightness/Contrast/Backlight | | Position/Size | | |
| Auto Config/Phase | | Language (OSD) | | |
| 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, Italian, 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 | Yes | | | |
| DPM Select | Yes | | | |
| Energy Saving Yes (Minimum, Medium, Maxium) | Yes | | | |
| Smart Energy Saving | Yes | | | |
| Power Indicator On/Off | Yes | | | |
| File Play with USB | Yes | | | |
| 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 | 7 19192 19192 1 | | |
| OPTIONAL ACCESSORIES | D-Sub Cable, Power Cord, Remote Controller(include battery 2ea), CD(Manual/Elite-C), Eye Bolt(2EA) Media Player: MP700/MP500 | | | |
| 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), Display Port(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 | 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 | | |



LG Electronics U.S.A., Inc.
HE B2B Division
2000 Millbrook Drive
Lincolnshire, IL 60069

Customer Service: 888.865.3026
www.LGsolutions.com/support

Contact your LG Regional Sales Representative:
Channel: 800.897.8871
Hospitality: 800.228.1236
E-mail: info@LGsolutions.com

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