



## High-brightness Open-frame Display 86XF3SK

# Large Display Optimized for Outdoor Advertising

-  Anti-Discoloration
-  3,300 nits High Brightness
-  Ultra HD Resolution
-  Direct Sunlight
-  Long-lasting High Performance
-  Web-based Monitoring Solution

### 86XF3SK

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| Screen Size, Panel     | 86" IPS                                                                   |
| Native Resolution      | 3,840 × 2,160 (UHD)                                                       |
| Brightness             | 3,300 nits (Typ. w/o Glass)                                               |
| Portrait / Landscape   | Yes / No                                                                  |
| Dimensions (W × H × D) | 48.2 × 80.1 × 7.1 in.<br>1,225 × 2,034.3 × 179.48 mm                      |
| Weight                 | 308.6 lbs. / 140 kg                                                       |
| Key Features           | Temperature Sensor, Auto Brightness Sensor, Smart Brightness Compensation |



Yellowing  
Resistance



Anti Black Circle

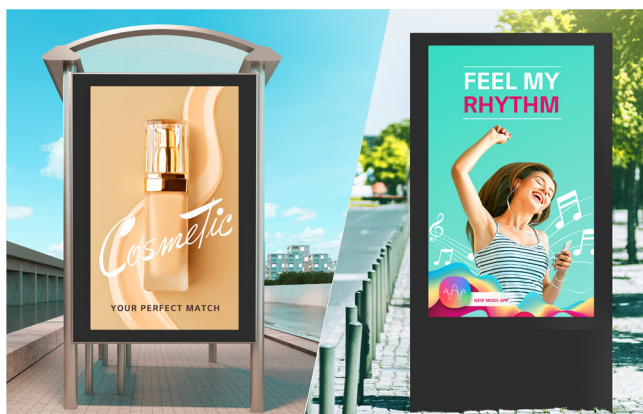


Enhanced  
Thermal Solution



## LG Anti-Discoloration

By focusing on the key pain points, we developed our new "Anti-Discoloration" technology designed to deter both screen yellowing and black circles. With an enhanced thermal solution, this model can deliver long-lasting and stable display quality.



## Open-frame Type Display

86XF3SK is an open-frame high-brightness displays that can operate in a variety of outdoor cases providing flexibility in color and design choices.



## Wide Range of Operating Temperature

The display has been tested and is capable of operating under a wide range of operating temperatures\* typically experienced in direct sunlight.

\* 86XF3SK is LG-internally tested based on IEC 60068-2-5, MIL-STD-810G and TTA test standards. This model must be installed inside a casing according to the official LG installation guide to be used safely and appropriately.



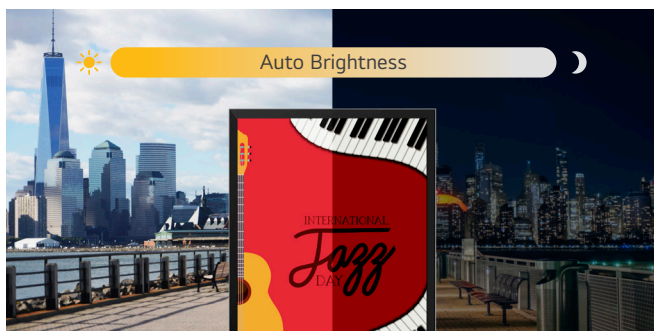
## Smart Brightness Compensation

The built-in back light unit sensor frequently measures the brightness of the display and automatically compensates for reduced brightness during operation.



## Superb Picture Quality with Ultra HD Resolution

With Ultra HD resolution, it makes the color and details of the contents vivid and realistic. In addition, the wide viewing angle applied with an IPS panel, provides clear contents.



## Smart Brightness Control

The 86XF3SK has auto-brightness adjustment based on sensors that detect the ambient light. In bright environments, the brightness is increased in light for better visibility, while it is decreased in dark times for better power management.



## Electrical Safety

The circuit breaker inside 86XF3SK minimizes the possibility of product damage by cutting off current when abnormal current is detected.



## High-Performance with LG webOS 6.0

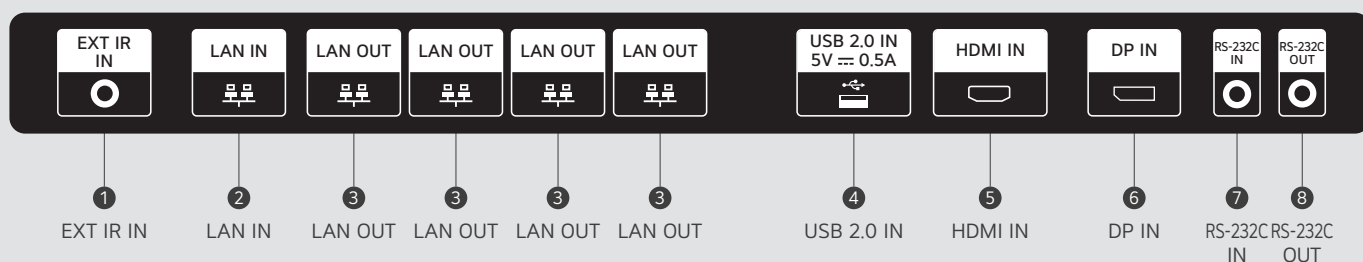
LG webOS 6.0 with system on chip and web engine, is available on this model for smooth execution of several tasks. The 86XF3SK enhances user convenience with its intuitive user interface and facilitates app development by being compatible with programming interfaces such as HTML, JavaScript®, and CSS.



## Web Monitoring (Control Manager)

This is a web-based monitoring solution, which provides remote control for the user. It enables users to have access from their mobile phone or PC when they are connected to a network to monitor and control the displays remotely in real-time.

## CONNECTIVITY



## SPECIFICATIONS

| 86XF3SK                          |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Panel                            | Screen Size                              | 86"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                  | Panel Technology                         | IPS, RGB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                  | Native Resolution                        | 3,840 × 2,160 (UHD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                  | Brightness                               | 3,300 nits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                  | Contrast Ratio                           | 1,100:1 (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                  | Dynamic CR <sup>1</sup>                  | 500,000:1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                  | Color Gamut                              | NTSC 68%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                  | Viewing Angle (H × V)                    | 178° × 178°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                  | Color Depth                              | 1.07 Billion Colors, 10 bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                  | Response Time                            | 8 ms (G to G)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                  | Surface Treatment (Haze)                 | 3%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                  | Operation Hours (Hours/Day)              | 24 / 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                  | Portrait / Landscape                     | Yes / No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Connectivity<br>(Jack Interface) | QWP (Quarter Wave Plate)                 | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                  | Input                                    | HDMI (HDCP 2.2), DP (HDCP 1.4), RS-232C In (4 Pin Phone Jack), RJ45 (LAN), IR In, USB 2.0 Type A                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Mechanical                       | Output                                   | RS-232C Out (4 Pin Phone Jack), RJ45 (4, LAN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                  | Bezel Width                              | 66.4 mm (L/R), 51.95 mm (T), 51.95 mm (B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                  | Weight (Head)                            | 308.7 lbs. / 140 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                  | Packed Weight                            | 345.7 lbs. / 156.7 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                  | Monitor Dimension<br>(W × H × D)         | 48.2 × 80.1 × 7.1 in.<br>1,225 × 2,034.3 × 179.48 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                  | VESA™ Standard Mount<br>Interface        | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Key Feature                      | HW                                       | Internal Memory (8 GB), Sensor (Temperature Sensor, Auto Brightness Sensor, Pixel sensor, Current Sensor, BLU Sensor, Humidity Sensor, Acceleration (Gyro) Sensor), FAN                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                  | SW                                       | webOS 6.0, Embedded CMS (Local Contents Scheduling, Group Manager), USB Plug & Play, Fail Over, Background Image (Booting Logo Image, No Signal Image), Sync Mode (RS-232C Sync, Local Network Sync, Backlight Sync), Video Tag (4), Play via URL (TDB), Rotation (Screen Rotation, External Input Rotation), Gapless Playback, Setting Data Cloning, SNMP, ISM Method, Auto Set ID, Status Mailing, Control Manager, Power (Smart Energy Saving, PM Mode, Wake on LAN, Network Ready), HDMI-CEC <sup>2</sup> , SI Server Setting, webRTC, Pro:Idiom, Brightness Compensation |
| Environment<br>Conditions        | Operation Temperature<br>(Direct Sun)    | 32 to 104°F / 0 to 40°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                  | Operation Temperature (No<br>Direct Sun) | 32 to 122°F / 0 to 50°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                  | Operation Humidity                       | 10% to 80%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Power                            | Power Supply                             | AC 100-240 V ~, 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                  | Power type                               | Built-in Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Power<br>Consumption             | Type. / Max.                             | 1,450 W / 1,800 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                  | BTU (British Thermal Unit)               | TBD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Regulatory                       | Sound                                    | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                  | Safety                                   | CB / NRTL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                  | EMC                                      | FCC Class "A" / CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                  | ErP / Energy Star                        | Yes / No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Software<br>Compatibility        | ePEAT (US only)                          | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                  |                                          | SuperSign CMS, SuperSign Control / Control+, LG ConnectedCare <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Accessories                      | Basic                                    | Remote Control 1er, HDMI Cable (1 ea), USB Cable (2 ea), Manual (IG & EIG), Regulation Book, Phone to RS-232C Gender (1 ea), LAN Extension Cable (2 ea), SMA Cable (2 ea), IR Cable (1 ea), JCD 5P PWR Cable (3 ea), JCD 8P PWR Cable (1 ea), Cord Grip Rubber (5 ea), Screw (6 ea), JCD Corner Bracket (4 ea)                                                                                                                                                                                                                                                                |
|                                  |                                          | Power Protection (Circuit Breaker), Direct Sunlight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Special Feature                  |                                          | 3 Year Limited (Optional up to 5 Year with LG ExtendedCare)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Warranty                         |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

1) The luminosity ratio of Full Black / Full White on video input condition.

2) Compatibility may differ by equipment.

3) The availability can differ by region.

\* Specifications are subject to change without notice. Please make sure to check the product manual for details about product usage.