

LG LED Bloc LSAA Series

# True Innovation Behind Simplicity



Optimum Cable-less Installation



Alpha 7 Intelligent Processor



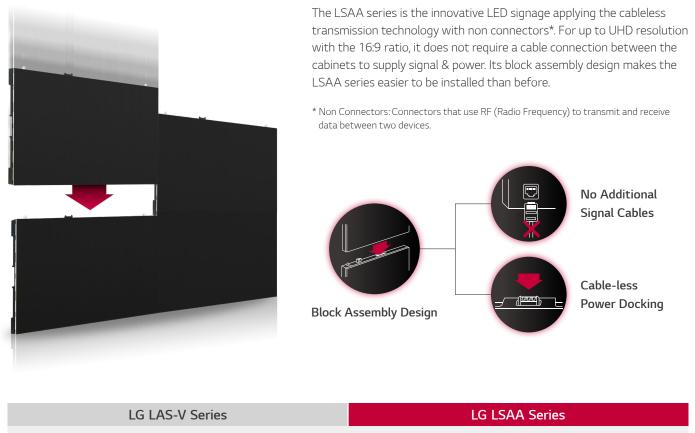
Dedicated Accessories

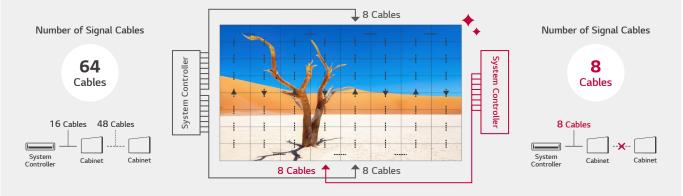


Meeting Room Solution Compatibility

P1.25

### **OPTIMUM CABLE-LESS DESIGN FOR SIMPLE INSTALLATION**





\* Based on P1.2, 16:9, UHD Resolution (8 × 8 Cabinets)

## Cable-less Signal Transmission & Power Docking

### **POWERFUL PICTURE QUALITY**



#### P1.25 P1.5

#### Optimized Image Quality with $\alpha$ 7 Intelligent Processor

The "Alpha 7 Intelligent Processor" applied to the LSAA series recognizes and analyzes the original content, optimizing the clarity and sharpness of the content for itself.

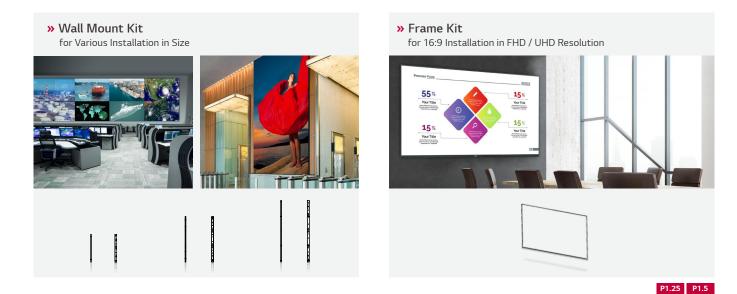


#### P1.25 P1.5

#### Vivid Color Expression Powered by HDR

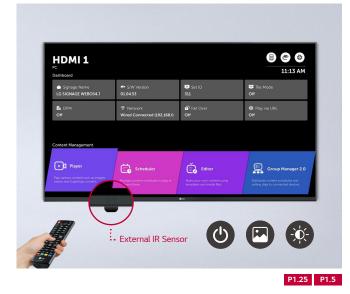
With HDR (HDR10, HDR10 Pro\*) support, content becomes vivid with great visual impact. The wider color spectrum and greater contrast ratio allow viewers to fully enjoy lively content.

### **OPTIMUM LED DISPLAY FOR ENTERPRISE USAGE**



#### Dedicated Accessories Available

The screen size can be easily expanded as desired using the dedicated wall mount kits. In addition, LG offers two types of frame kits for cabinet  $4 \times 4$  (108") and  $6 \times 6$  (163").



#### Easy Remote Control Support

The LSAA series allows users to easily access the settings, such as Picture Mode, volume, etc. by using a remote control instead of connecting to a PC. It uses the same UI as general LG digital signage, so users can easily adapt to it.



P1.25 P1.5

#### Compatibility with AV Conference Systems

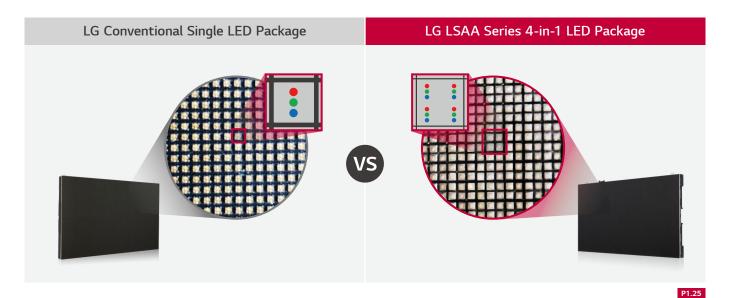
The LSAA series has been certified Crestron Connected® for a high level of compatibility with professional AV controls to achieve seamless integration and automated control\*, boosting business management efficiency.

### DELICATE FEATURES CONSIDERING UP-CLOSE USE



#### EMC Class B Certified

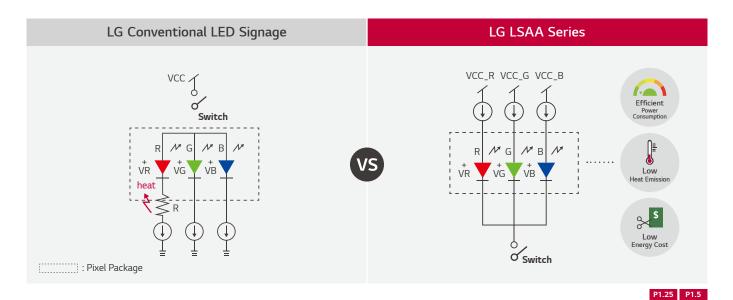
The LG LSAA series is certified as EMC Class B, which requires electronic equipment made for use in residential environments as well as commercial, industrial, or business environments. Therefore, it is suitable for up-close uses such as corporate meeting rooms, board rooms, etc.



#### 4-in-1 LED Package

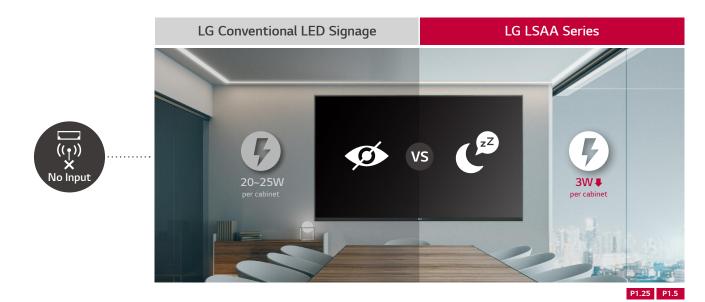
By adopting a 4-in-1 LED package in which 4 pixels are combined and integrated into one single LED package, the LSAA series offers better LED module protection. It is more robust to human touch than the conventional LED display.

#### **ENHANCED POWER EFFICIENCY**



Energy Saving Power System

By applying Common Cathode Drive-IC, LSAA series supplies the right necessary voltage to each R/G/B sub-pixel individually, ensuring efficient power consumption.



#### Standby Mode

When there is no input signal for a period of time, the screen turns off and the main circuit parts inside the LED cabinet go to a standby mode. This saves additional power consumption and enables the product to be reactivated simply by using a remote control.

#### DELICATE FEATURES FOR OPERATION AND MANAGEMENT

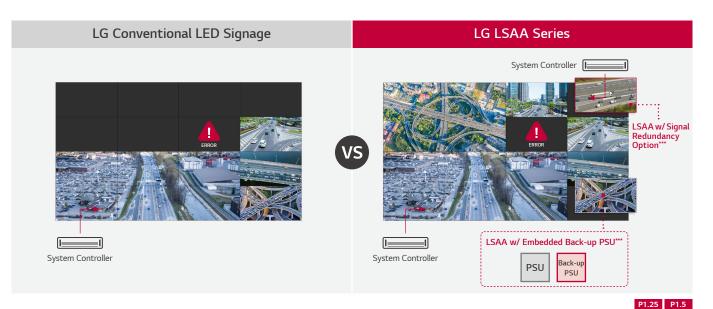


P1.25 P1.5

#### Real-time ConnectedCare Service

Maintenance is easy and fast with the optional ConnectedCare\* service, a cloud service solution provided by LG. It remotely manages the status of displays in client workplaces for fault diagnosis and remote-control services, enabling the stable operation of clients' businesses.

\* ConnectedCare is the brand name of LG Signage365Care Service. The availability differs by region.



#### Power/Signal Redundancy Support

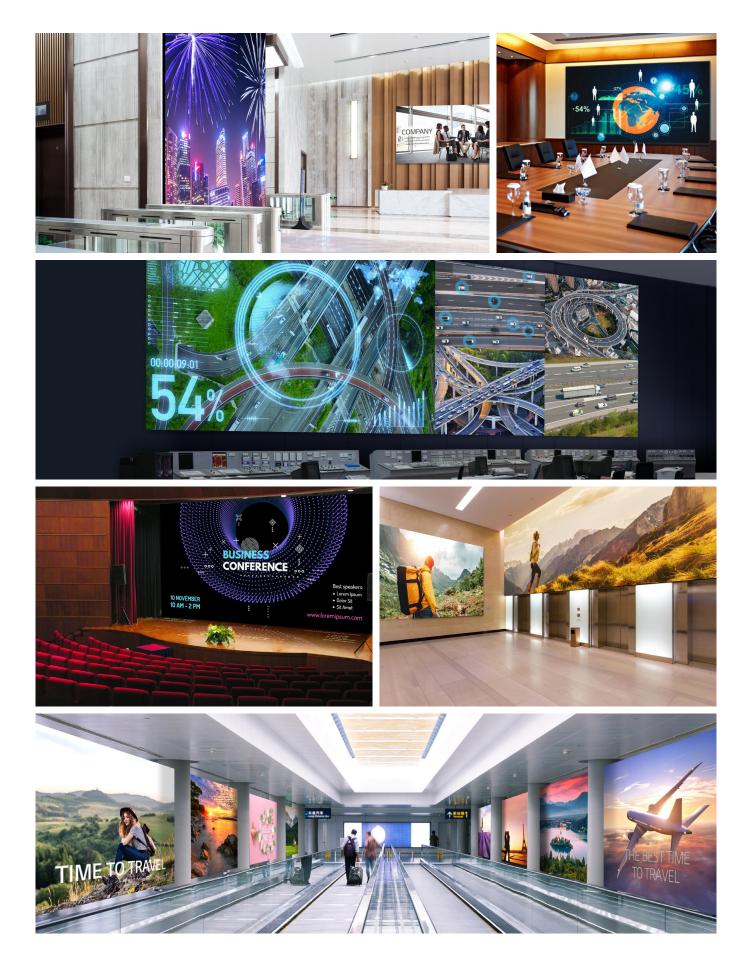
The LSAA series is designed to support redundancy of signal and power, providing users with comfort. With optional embedded back-up power supply unit and signal redundancy, customers can assure the continuous operation of the screen without power failure, while the dual controllers minimize screen failure with a bi-directional signal input.

\*\*\* The power/signal redundancy models are optional.

<sup>\*</sup> The "Conventional" shown above refers to LED displays which do not support the power/signal redundancy mode.

<sup>\*\*</sup> The power/signal redundancy features are available from the fourth quarter of 2020.

### **USAGE SCENES**



#### **PRODUCT INFORMATION**



## LG SuperSign

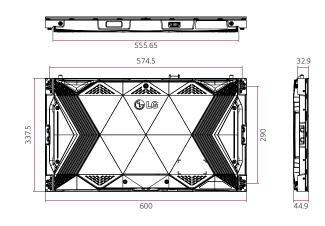
Cabinet	LSAA012-MX/SX	LSAA015-MX2/SX2	
Pixel Configuration	4 in 1	3 in 1	
Pixel Pitch (mm)	1.25	1.56	
No. of Modules per Cabinet (W × H)	2 × 3	2 × 3	
Cabinet Resolution (W × H)	480 × 270	384 × 216	
Cabinet Dimensions (W × H × D, mm)	600 × 337.5 × 44.9	600 × 337.5 × 44.9	
Brightness	600 nit (Typ.), 1,200 nit (Peak)	800 nit (Typ.), 1,600 nit (Peak)	
Contrast Ratio	4,000 : 1 (Typ.), 8,000 : 1 (Peak)	5,000 : 1 (Typ.), 9,000 : 1 (Peak)	



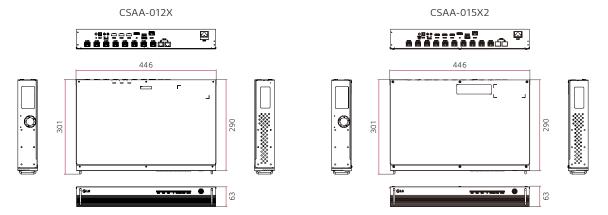
System Controller	CSAA-012X	CSAA-015X2	
Resolution	UHD (3,840 × 2,160)	UHD (3,840 × 2,160)	
Input Signal	HDMI 2.0, HDCP 2.2, DP 1.2 / HDCP 2.2	HDMI 2.0, HDCP 2.2, DP 1.2 / HDCP 2.2	
Output Signal	Ethernet (8-channel)	Ethernet (10-channel)	
Control	LAN, RS-232C (LOOP)	LAN, RS-232C (LOOP)	
HDR Compatibility	HDR10 Pro	HDR10 Pro	
Dimension (W $\times$ H $\times$ D, mm)	446 × 63 × 301	446 × 63 × 301	



CABINET

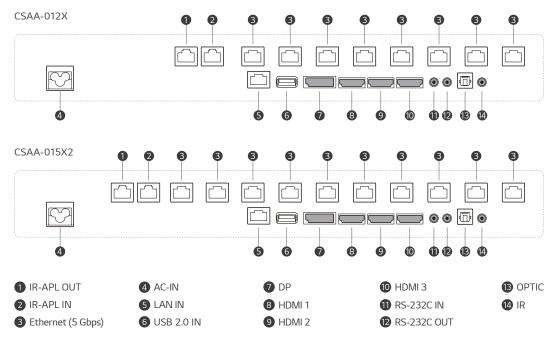


SYSTEM CONTROLLER



CONNECTIVITY

SYSTEM CONTROLLER



\* Dimensions & Jack Panels may differ from the above image, so please contact LG sales team to verify before ordering.

#### **SPECIFICATIONS**

Part Configuration     4 in 1     3 in 1       Pixel Pitch (mm)     1.25     1.56       Module Resolution (W × H)     240 × 90     192 × 72       Module Dimensions (W × H, mm)     300 × 112.5     300 × 112.5       Weight per Module (sq)     0.20     0.20       No of Modules per Cabine (W × H)     2 × 3     2 × 3       Cabine Environment (W × H)     4040 × 270     384 × 216       Cabine Environment (W × H)     4040 × 270     384 × 216       Cabine Environment (W × H)     4040 × 270     384 × 216       Cabine Environment (W × H)     0.203     0.259       Vesight per Cabinet (sq)Cabinet)     7.7     381       Physical Yee Devent (sq)Cabinet)     7.3     7.7       Vesight per Cabinet (sq)Cabinet)     600 nt (Max) 1.200     409.600       Fatres of Cabinet (mm)     6105     -     -       Cabinet Material     De-cast Aluminum     -     -       Service Acces     On ret (Max) 1.200 nt (Max) 1.500 nt	Panel	Model Name	LSAA012-MX/SX	LSAA015-MX2/SX2	
Instrument     Instrument     Instrument       Parameters     Instrument     300 × 112.5     300 × 112.5       Module Dimensions (W × H, mm)     300 × 112.5     300 × 112.5       Weight per Module (kg)     0.20     0.20       Cabiner. Resolution (W × H)     400 × 27.0     364 × 21.6       Cabiner. Besolution (W × H)     400 × 27.0     364 × 21.6       Cabiner. Exolution (W × H) × H, mm)     600 × 337.5 × 44.9     600 × 337.5 × 44.9       Cabiner. Exolution (W × H) × H, mm)     600 × 337.5 × 44.9     600 × 337.5 × 44.9       Cabiner. Exolution (W × H) × H, mm)     600 × 337.5 × 44.9     600 × 337.5 × 44.9       Cabiner. Exolution (W × H) × H, mm)     600 × 337.5 × 44.9     600 × 337.5 × 44.9       Cabiner. Exolution (W × H) × H, mm)     600 × 337.5 × 44.9     600 × 337.5 × 44.9       Cabiner. Exolution (W × H) × H, mm)     600 × 337.5 × 44.9     600 × 337.5 × 44.9       Cabiner. Exolution (W × H) × H, mm)     600 × 337.5 × 44.9     600 × 337.5 × 44.9       Cabiner. Exolution (M × H, rom)     600 × 100.0     100 × 100.0       Fightness Variant (kg)     90.0 × 100.0     100 × 100.0       Seconcess     Fightness Variant (kg)     1		Pixel Configuration	4 in 1	3 in 1	
Physical Parameters     Madule Dimensions (W × H, mm)     300 × 112.5     300 × 112.5       Weight per Module (kg)     0.20     0.20       No. of Modules per Cabnet (W × H)     2 × 3     2 × 3       Cabnet Dimensions (W × H)     480 × 270     384 × 216       Cabnet Dimensions (W × H) × D, mn)     600 × 337.5 × 44.9     600 × 337.5 × 44.9       Cabnet Surface Area (m)     0.203     0.2259       Weight per Cabnet (kg/Cabnet)     7.3     7.7       Weight per Supare Meter (kg/m)     36.1     38.1       Physical Pare Density (pareis/m)     640,000     409,600       Rateral     De-cast Aluminum       Service Access     Front and Rear <sup>1/2</sup> Service Access     Front and Rear <sup>1/2</sup> Color Temperature (Default/Adjustable)     6500 K / 3200 - 9,300 K <sup>(2)</sup> Color Tomperature (Default/Adjustable)     6500 K / 3200 - 9,300 K <sup>(2)</sup> Color Tomperature (Default/Adjustable)     6500 K / 3200 - 9,300 K <sup>(2)</sup> Color Tomperature (Default/Adjustable)     6500 K / 3200 - 9,300 K <sup>(2)</sup> Color Tomperature (Default/Adjustable)     6500 K / 3200 - 9,300 K <sup>(2)</sup> Color Tomperature (Default/Adjustable)     6500 K / 3200 - 9,300 K <sup></sup>		Pixel Pitch (mm)	1.25	1.56	
Physical Parameters     Weight per Module (kg)     0.20     0.20       No. of Modules per Cabinet (W × H)     2 × 3     2 × 3     2 × 3       Cabinet Resolution (W × H)     440 × 270     384 × 216       Cabinet Dimensions (W × H × D, rm)     600 × 337.5 × 44.9     600 × 337.5 × 44.9       Cabinet Endex Paris (MY)     0.203     0.259       Weight per Cabinet (kg/Cabinet)     7.7     7.7       Weight per Square Meter (kg/m)     36.1     38.1       Physical PNet Density (joseBarry)     640.000     409.600       Flatness of Cabinet (rmn)     ±0.5     -       Cabinet Material     Dise-cast Aluminum       Service Acces     Front and Rear <sup>3</sup> Service Material     600 ntt (Max) 1,200 nt (Peak)     800 ntt (Max) 1,600 ntt (Peak)       Color Temperature (Default/Algutable)     6500 K / 32.00 - 9,300 K <sup>0</sup> 6500 K / 32.00 - 9,300 K <sup>0</sup> Visual Veeing Argle (H × V)     170 × 170     170 × 170       Brightness (Informity     900 ntt (Max) 1,800 ntt (Peak)     5000 ntt (Peak)       Color Temperature (Default/Algutable)     6500 K / 32.00 + 320 K <sup>0</sup> 5000 ntt (Peak)       Color Temperature (Default/Algutable) </td <td rowspan="3"></td> <td>Module Resolution (W × H)</td> <td>240 × 90</td> <td>192 × 72</td>		Module Resolution (W × H)	240 × 90	192 × 72	
Physical Parameters     No. of Modules per Cabinet (W × H)     2 × 3     2 × 3       Cabinet Revolution (W × H)     480 × 270     384 × 216       Cabinet Surface Area (m)     000 × 3375 × 44.9     600 × 3375 × 44.9       Cabinet Surface Area (m)     0.203     0.259       Weight per Sulare (Mg/Cabinet)     7.3     7.7       Weight per Sulare (Mg/Cabinet)     7.3     7.7       Reading Cabinet (Mg/Cabinet)     7.3     7.7       Rathess of Cabinet (Mg/Cabinet)     640,000     409,600       Fathess of Cabinet (Mg/Cabinet)     5.0     -       Cabinet Material     Discretal Aluminum     5.00       Service Access     Front and Resr <sup>1</sup> 170 × 170       Visual Viewing Angle (H × V)     170 × 170     170 × 170       Brightness (After Calibration)     600 ntt (Max) 1,200 nit (Peak)     5.000 rtt (Max) 1,600 nit (Max)       Color Temperature (Defailt/Adjustable)     6,500 K / 3,200 + 9,300 K <sup>2</sup> 6,500 K / 3,200 + 9,300 K <sup>2</sup> Visual Viewing Angle (H × V)     170 × 170     170 × 170       Brightness (Informity     98 M     295%       Color Temperature (Defailt/Adjustable)     6,500 K / 3,		Module Dimensions (W × H, mm)	300 × 112.5	300 × 112.5	
Physical Parameters     Cabinet Resolution (W × H × D, mm)     480 × 270     384 × 216       Cabinet Dimensions (W × H × D, mm)     600 × 337,5 × 44.9     600 × 337,5 × 44.9       Cabinet Strate Area (m)     0.203     0.259       Weight per Cabinet (kg/Cabinet)     7.3     7.7       Weight per Square Meter (kg/m)     640,000     409,560       Physical PNe Density (pixels/m)     640,000     409,600       Rathers of Cabinet (mm)     ±0.5     -       Cabinet Material     Die-cast Aluminum       Service Access     Front and Rea <sup>-1</sup> Color Temperature (Default/Adjustable)     6500 nt (Max) 1,200 nit (Peak)     800 nt (Max) 1,600 nit (Peak)       Color Temperature (Default/Adjustable)     6500 nt (Max) 1,200 nit (Peak)     800 nt (Max) 1,600 nit (Peak)       Specifications     Visual Vexing Angle (H × V)     170 × 170     170 × 170       Brightness Uniformity     998%     ±95%     20015 Cx, Cy       Color Immerature (Default/Adjustable)     40015 (Cx, Cy     ±0015 Cx, Cy     ±0015 Cx, Cy       Contrast Rath (bt)     40015 (Max), 8000 11 (Peak)     50000 11 (Ppa), 9000 11 (Peak)     20 (HDR10, HDR10 Pro) <sup>3</sup> Prover Consumpt		Weight per Module (kg)	0.20	0.20	
Physical Parameters     Eabinet Dimensions (W × H × D, mm)     600 × 337.5 × 44.9     600 × 337.5 × 44.9       Cabinet Sufface Area (m)     0.203     0.259       Weight per Cabinet (kg/Cabinet)     7.3     7.7       Weight per Square Meter (kg/m')     36.1     38.1       Physical Pixel Densty (pixels/m')     640,000     409,600       Elenses of Cabinet (mm)     ±0.5     -       Cabinet Material     Die-cast Aluminum       Service Access     Front and Rear <sup>1</sup> Bightness (After Calibration)     600 nit (Max) 1,200 nit (Peak)     800 nit (Max) 1,600 nit (Peak)       Color Temperature (Default/Adjustable)     6500 K/ 3,200 - 9,300 K <sup>10</sup> 170 × 170       Visual Vewing Angle (H × V)     170 × 170     170 × 170       Brightness (Informity     ±0015 Cx, Cy     ±0015 Cx, Cy       Color Unformity     ±0015 Cx, Cy     ±0015 Cx, Cy       Color Unformity     ±0010 1 (Max), 8000 1 (Peak)     50000 1 (Ppa), 9000 1 (Peak)       Processing Depth (bit)     20 (HDR10, HDR10 Pro) <sup>9</sup> 93       Power Consumption (W/Cabinet, Aug)     38,375     317       Power Consumption (W/Cabinet, Aug)     38,375     317 </td <td></td> <td>No. of Modules per Cabinet (W × H)</td> <td>2 × 3</td> <td>2 × 3</td>		No. of Modules per Cabinet (W × H)	2 × 3	2 × 3	
Parameters     Calinet Lumentsons (W × H × D, mn)     000 × 3.3 / x × 4.9     000 × 3.3 / x × 4.9       Calinet Surface Area (m)     0.203     0.259       Veight per Cabinet (kg/Cabinet)     7.3     7.7       Weight per Cabinet (kg/Cabinet)     36.1     38.1       Physical Pixel Density (pixels/m?)     640,000     409,600       Elaness of Cabinet (mm)     ±0.5     -       Cabinet Material     Die-cast Alumium       Service Access     Front and Rear <sup>?</sup> Color Temperature (befault/Adjustable)     6,000 (Max) 1,200 nt (Peak)     800 nt (Max) 1,600 nt (Peak)       Specification     Color Temperature (befault/Adjustable)     6,500 K / 3200 - 9,300 K <sup>20</sup> 6,500 K / 3200 - 9,300 K <sup>20</sup> Visual Veining Angle (H × V)     1.70 × 170     1.70 × 170     1.70 × 170       Brightness Uniformity     908%     2.95%     2.00 × 100 × 1.70 × 170       Color Unformity     ±0.015 Cx ÇV     ±0.001 5 Cx ÇV     ±0.001 5 Cx ÇV     2.00 × 10.00 × 1.70 × 1.70       Power Consumption (W/Cabinet, Max)     9.9,110     9.3     9.3     1.667       Power Consumption (W/Cabinet, Max)     3.38,375     3.17     1.667 <td rowspan="3">-</td> <td>Cabinet Resolution (W × H)</td> <td>480 × 270</td> <td>384 × 216</td>	-	Cabinet Resolution (W × H)	480 × 270	384 × 216	
Calinet Surface Area (m)     0.203     0.259       Weight per Salare Metr (kg/m)     7.3     7.7       Weight per Square Metr (kg/m)     36.1     38.1       Physical Pixel Density (pixels/m)     640,000     409,600       Hatness of Cabinet (mm)     ±0.5     -       Cabinet Material     Die-cast Auminum       Service Access     Front ard Fear <sup>-1</sup> Gainet Suffer Calinet (nm)     600 ntt (Max) 1,200 nt (Peak)     800 ntt (Max),1600 nt (Peak)       Color Temperature (Default/Adjustable)     600 ntt (Max) 1,200 nt (Peak)     800 ntt (Max),1600 nt (Peak)       Specification in     Gainet Suffer Calinet And Pear <sup>-1</sup> 170 x 170     170 x 170       Brightness Unformity     99%     295%     2050 ntt (Max),1200 nt (Peak)     2050 ntt (Max),1200 nt (Peak)       Foreconsumption (Wir/Cabinet, Max)     4,000 11 (Max),8000 11 (Peak)     5,000 11 (Tp),9000 11 (Peak)       Foreconsumption (Wir/Cabinet, Max)     99,110     93     93       Power Consumption (Wir/Cabinet, Max)     338,375     317     100       Heat Dissipation (BTU/hr/Cabinet, May)     3640 33840     35840     100       Heat Dissipation (BTU/hr/Cabinet, May) </td <td>Cabinet Dimensions (W × H × D, mm)</td> <td>600 × 337.5 × 44.9</td> <td>600 × 337.5 × 44.9</td>		Cabinet Dimensions (W × H × D, mm)	600 × 337.5 × 44.9	600 × 337.5 × 44.9	
Weight per Square Meter (kg/m²)     36.1     38.1       Physical Pixel Density (pixels/m²)     640,000     409,600       Flatness of Cabinet (mm)     ±0.5     -       Cabinet Material     Die-cast Aluminum     -       Service Access     Front and Rear <sup>1</sup> 600 nt (Max) 1,200 nt (Peak)     800 nt (Max) 1,600 nt (Peak)       Brightness (After Calibration)     600 nt (Max) 1,200 nt (Peak)     800 nt (Max) 1,600 nt (Peak)     6,500 K/ 3,200 - 9,300 K <sup>21</sup> 6,500 K / 3,200 - 9,300 K <sup>21</sup> Specifications     Brightness (After Calibration)     600 nt (Max) 1,200 nt (Peak)     800 nt (Max) 1,600 nt (Peak)       Specifications     Color Temperature (Default/Adjustable)     6,500 K / 3,200 - 9,300 K <sup>21</sup> 6,500 K / 3,200 - 9,300 K <sup>21</sup> Brightness Uniformity     998/6     295%     20015 Cx, Cy     20,015 Cx, Cy       Color Uniformity     ±0015 Cx, Cy     ±0.015 Cx, Cy     20,000 : 1 (Peak)     5.000 : 1 (Fpa), 9,000 : 1 (Peak)       Procescinsumption (W/Cabinet, Max)     99,110     93     90,000     100,011 (Peak)       Power Consumption (W/Cabinet, Max)     338,375     317     1568       Power Consumption (W/Cabinet, May)     259     150		Cabinet Surface Area (m²)	0.203	0.259	
Physical Pixel Density (pxels/m <sup>2</sup> )     640,000     409,600       Flatterss of Cabinet (mm)     ±0.5     .       Cabinet Material     Die-cast Aluminum       Service Access     Front and Rear <sup>3/2</sup> Color Temperature (Default/Alustable)     600 nt (Max), 1.200 nt (Peak)     800 nt (Max), 1.600 nt (Peak)       Visual Vewing Angle (H × V)     17170 × 170     1770 × 170       Brightness Unformity     98%     295%       Color Unformity     ±0015 Cx Cy     ±0.015 Cx Cy       Color Unformity     ±0015 Cx Cy     ±0.015 Cx Cy       Color Unformity     ±0015 Cx Cy     ±0.015 Cx Cy       Color Unformity     ±0.015 Cx Cy     ±0.015 Cx Cy       Color Unformity     ±0.015 Cx Cy     ±0.015 Cx Cy       Color Unformity     ±0.015 Cx Cy     ±0.015 Cx Cy       Contrast Ratio     4.000 1 (Max), 8.000 1 (Peak)     5.000 1 (Typ), 9.000 1 (Peak)       Prower Consumption (W/Cabinet, Max)     338,375     317       Heat Dissipation (BTU/h/Cabinet, Max)     3.840     3.840       Power Consumption (W/Cabinet, Max)     3.840     3.840       Frame Rate (Hz)     50 / 660     50 /		Weight per Cabinet (kg/Cabinet)	7.3	7.7	
Flatness of Cabinet (mm)     ±0.5     -       Cabinet Material     Die-cast Aluminum       Service Access     Front and Rear <sup>13</sup> Brightness (After Calibration)     600 nit (Max) 1,200 nit (Peak)     800 nit (Max) 1,600 nit (Peak)       Brightness (After Calibration)     600 nit (Max) 1,200 nit (Peak)     800 nit (Max) 1,600 nit (Peak)       Specifications     Brightness (After Calibration)     6,500 K/ 3,200 - 9,300 K <sup>23</sup> 6,500 K/ 3,200 - 9,300 K <sup>23</sup> Brightness Uniformity     98%     295%     295%       Color Uniformity     ±0.015 Cx, Cy     ±0.015 Cx, Cy       Color Tast Ratio     4,000 : 1 (Max), 8,000 : 1 (Peak)     5,000 : 1 (Typ.) 9,000 : 1 (Peak)       Power Consumption (W/Cabinet, Max)     99,110     93       Power Consumption (W/Cabinet, Max)     398,375     317       Heat Dissipation (BTU/n/Cabinet, Avg.)     259     190       Heat Dissipation (BTU/n/Cabinet, Avg.)     1,667,1852     1,568       Power Consumptio		Weight per Square Meter (kg/m²)	36.1	38.1	
Cabinet Material     Die-cast Aluminum       Service Access     Front and Rear <sup>17</sup> Brightness (After Calibration)     600 nit (Max) 1,200 nit (Peak)     800 nit (Max) 1,600 nit (Peak)       Color Temperature (Default/Adjustable)     6,500 K/ 3,200 - 9,300 K <sup>20</sup> 6,500 K/ 3,200 - 9,300 K <sup>20</sup> Specifications     Brightness Uniformity     98%     295%       Color Temperature (Default/Adjustable)     0,015 Cx, Cy     5,000 K / 3,200 - 9,300 K <sup>20</sup> Color Uniformity     0,015 Cx, Cy     5,000 K / 3,200 - 9,300 K <sup>20</sup> Color Uniformity     0,015 Cx, Cy     5,000 K / 3,200 - 9,300 K <sup>20</sup> Color Uniformity     0,015 Cx, Cy     5,000 K / 3,200 - 9,300 K <sup>20</sup> Color Uniformity     0,015 Cx, Cy     5,000 K / 3,200 - 9,300 K <sup>20</sup> Color Uniformity     0,015 Cx, Cy     5,000 K / 3,200 - 9,300 K <sup>20</sup> Color Uniformity     0,015 Cx, Cy     5,000 K / 3,200 - 9,300 K <sup>20</sup> Color Uniformity     0,001 K (Max), 8,000 K / 4,000 K <sup>20</sup> 5,000 K / 3,200 - 9,300 K <sup>20</sup> Color Uniformity     0,015 Cx, Cy     5,000 K / 3,200 - 9,300 K <sup>20</sup> Power Consumption (W/Cabinet, Max)     9,9110     9,000 K <sup>20</sup> Power Consumption (W/m <sup>2</sup> , Max)		Physical Pixel Density (pixels/m <sup>2</sup> )	640,000	409,600	
Service Access     Front and Rear <sup>1)</sup> Brightness (After Calibration)     600 nt (Max) 1,200 nt (Peak)     800 nt (Max) 1,600 nt (Peak)       Color Temperature (Default/Adjustable)     6,500 K / 3,200 - 9,300 K <sup>2)</sup> 6,500 K / 3,200 - 9,300 K <sup>2)</sup> Visual Vewing Angle (H × V)     170 × 170     170 × 170       Brightness Uniformity     98%     295%       Color Uniformity     4,000 : 1 (Max), 8,000 : 1 (Peak)     5,000 : 1 (Jpu), 9,000 : 1 (Peak)       Processing Depth (bit)     20 (HDR10, HDR10 Pro) <sup>20</sup> 93       Processing Depth (bit)     000 nt (Max), 8,000 : 1 (Peak)     6,7       Power Consumption (W/Cabinet, Ang.)     99,110     93       Power Consumption (W/Cabinet, Ang.)     76     67       Power Consumption (W/Cabinet, Ang.)     338,375     317       Heat Dissipation (BTU/h/Cabinet, Ang.)     338,375     317       Heat Dissipation (BTU/h/Cabinet, Ang.)     100 to 240     100 to 240       Frame Rate (Hz)     50/60     50/60       Refresh Rate (Hz)     3,840     3,840       Operation Specifications     0Peratore     0Peratore     0Peratore       Operating Humidity     10-80% RH<		Flatness of Cabinet (mm)	±0.5	-	
Brightness (After Calibration)     600 nit (Max) 1,200 nit (Peak)     800 nit (Max) 1,600 nit (Peak)       Color Temperature (Default/Adjustable)     6,500 K / 3,200 - 9,300 K <sup>2)</sup> 6,500 K / 3,200 - 9,300 K <sup>2)</sup> Visual Viewing Angle (H × V)     170 × 170     170 × 170       Brightness Uniformity     99%     295%       Color Lunformity     ±0.15 Cx, Cy     ±0.015 Cx, Cy       Contrast Ratio     4,000 : 1 (Max), 8,000 : 1 (Peak)     5,000 : 1 (Typ), 9,000 : 1 (Peak)       Processing Depth (bit)     20 (HDR10, HDR10 Pro) <sup>31</sup> 93       Power Consumption (W/Cabinet, Max)     99,110     93       Power Consumption (W/Cabinet, Avg)     76     67       Power Consumption (W/Cabinet, Avg)     76     67       Power Consumption (W/Cabinet, Avg)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg)     259     317       Heat Dissipation (BTU/h/Cabinet, Avg)     1667, 1852     1,568       Power Consumption (W/Cabinet, Avg)     100 to 240     100 to 240       Frame Rate (Hz)     3,840     3,840     3,840       Specifications     Gefresh Rate (Hz)     3,840     3,840     3,840		Cabinet Material	 Die-cast Aluminum		
Optical Specifications     Color Temperature (Default/Adjustable)     6,500 K/3,200 - 9,300 K <sup>21</sup> 6,500 K/3,200 - 9,300 K <sup>21</sup> Visual Viewing Angle (H × V)     170 × 170     170 × 170       Brightness Uniformity     98%     295%       Color Uniformity     40015 Cx, Cy     40015 Cx, Cy       Color Uniformity     40011 (Max), 8,000 :1 (Peak)     5,000 :1 (Typ), 9,000 :1 (Peak)       Processing Depth (bit)     20 (HDR10, HDR10 Pro) <sup>30</sup> Power Consumption (W/Cabinet, Max)     99, 110     93       Power Consumption (W/Cabinet, Max)     99, 110     93       Power Consumption (W/Cabinet, Max)     489, 543     459       Heat Dissipation (BTU/h/Cabinet, Avg)     76     67       Power Consumption (W/Cabinet, Avg)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg)     10667, 1852     1,568       Power Supply (V)     100 to 240     100 to 240       Frame Rate (Hz)     3,840     3,840       Lifetime (Half Brightness)     100,000     100,000       Operating Temperature     0°C to +40°C     0°C to +40°C		Service Access	Front and Rear <sup>1)</sup>		
Optical Specifications     Visual Viewing Angle (H × V)     170 × 170     170 × 170       Bightness Uniformity     98%     ≥95%       Color Uniformity     ±0.015 Cx, Cy     ±0.015 Cx, Cy       Processing Depth (bit)     20 (HDR10, HDR10 Pro) <sup>31</sup> 93       Power Consumption (W/Cabinet, Max.)     99, 110     93       Power Consumption (W/Cabinet, Max.)     338, 375     317       Heat Dissipation (BTU/h/Cabinet, Max.)     338, 375     317       Heat Dissipation (BTU/h/Cabinet, Max.)     1667, 1852     1,568       Power Supply (V)     100 to 240     100 to 240       Frame Rate (Hz)     3,840     3,840       Specifications     Gersting Temperature     0°C to +40°C     0°C to +40°C       <		Brightness (After Calibration)	600 nit (Max.) 1,200 nit (Peak)	800 nit (Max.) 1,600 nit (Peak)	
Optical Specifications     Brightness Uniformity     98%     ±95%       Color Uniformity     ±0.015 Cx, Cy     ±0.015 Cx, Cy       Contrast Ratio     4,000 :1 (Max), 8,000 :1 (Peak)     5,000 :1 (Typ), 9,000 : 1 (Peak)       Processing Depth (bit)     20 (HDR10, HDR10 Pro) <sup>30</sup> Power Consumption (W/Cabinet, Max)     99,110     93       Power Consumption (W/Cabinet, Avg.)     76     67       Power Consumption (W/Cabinet, Avg.)     78     317       Power Consumption (W/Cabinet, Avg.)     338,375     317       Heat Dissipation (BTU/h/Cabinet, Avg.)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg.)     100 to 240     100 to 240       Frame Rate (Hz)     50 / 60     50 / 60       Refresh Rate (Hz)     3840     3840       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Temperature     10-80% RH     10-80% RH       IP Rating Rear     IP20     IP20       IP Rating Rear     IP20     IP20       IP Rating Rear     IP20     Safety 60950-1,EM		Color Temperature (Default/Adjustable)	6,500 K / 3,200 ~ 9,300 K <sup>2)</sup>	6,500 K / 3,200 ~ 9,300 K <sup>2)</sup>	
Brightness Uniformity     Image (March (Mar		Visual Viewing Angle (H × V)	170 × 170	170 × 170	
Color Uniformity     ±0.015 Cx, Cy       Contrast Ratio     4,000 : 1 (Max), 8,000 : 1 (Peak)     5,000 : 1 (Tip,),9,000 : 1 (Peak)       Processing Depth (bit)     20 (HDR10 Pro) <sup>30</sup> 9,000 : 1 (Peak)       Power Consumption (W/Cabinet, Max)     99,110     93       Power Consumption (W/Cabinet, Max)     99,100     93       Power Consumption (W/Cabinet, Max)     99,110     93       Power Consumption (W/Cabinet, Max)     489,543     459       Heat Dissipation (BTU/h/Cabinet, Max)     338,375     317       Heat Dissipation (BTU/h/Cabinet, Avg)     259     190       Heat Dissipation (BTU/m <sup>2</sup> , Max)     1,667,1,852     1,568       Power Supply (V)     100 to 240     100 to 240       Frame Rate (Hz)     3,840     3,840       Poer Supply (N)     100,000     3,840       Poer Torug Temperature     0°C to +40°C     0°C to +40°C       Operating Temperature     0°C to +40°C     0°C to +40°C       IP Rating Front     1P20     1P20       IP Rating Front     1P20     1P20       IP Rating Rear     1P20     1P20       IP Rati		Brightness Uniformity	98%	≥95%	
Processing Depth (bit)     20 (HDR10, HDR10 Pro) <sup>3</sup> Power Consumption (W/Cabinet, Max.)     99,110     93       Power Consumption (W/Cabinet, Avg.)     76     67       Power Consumption (W/Cabinet, Avg.)     76     67       Power Consumption (W/Cabinet, Avg.)     489,543     459       Heat Dissipation (BTU/h/Cabinet, Avg.)     259     317       Heat Dissipation (BTU/h/Cabinet, Avg.)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg.)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg.)     50 / 60     50 / 60       Power Supply (V)     100 to 240     100 to 240       Frame Rate (Hz)     50 / 60     50 / 60       Refresh Rate (Hz)     3840     3,840       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Humidity     10-80% RH     10-80% RH       IP Rating Front     IP20     IP20       IP Rating Front     IP20     IP20       IP Rating Front     IP20     IP20       IP Rating Rear     IP20     IP20       IP Rating Rear     IP20     Safety 60950-1	Specifications	Color Uniformity	±0.015 Cx, Cy	±0.015 Cx, Cy	
Power Consumption (W/Cabinet, Max)     99,110     93       Power Consumption (W/Cabinet, Avg.)     76     67       Power Consumption (W/Cabinet, Avg.)     76     67       Power Consumption (W/Cabinet, Avg.)     489,543     459       Heat Dissipation (BTU/h/Cabinet, Max.)     338,375     317       Heat Dissipation (BTU/h/Cabinet, Avg.)     259     190       Heat Dissipation (BTU/m², Max.)     1,667,1852     1,568       Power Supply (V)     100 to 240     100 to 240       Frame Rate (Hz)     50 / 60     50 / 60       Refresh Rate (Hz)     3,840     3,840       Operating Specifications     100,000     100,000       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Humidity     10-80% RH     10-80% RH       IP Rating Rear     IP20     IP20       IP Rating Rear     IP20     RoHS <td></td> <td>Contrast Ratio</td> <td>4,000 : 1 (Max.), 8,000 : 1 (Peak)</td> <td>5,000 : 1 (Typ.), 9,000 : 1 (Peak)</td>		Contrast Ratio	4,000 : 1 (Max.), 8,000 : 1 (Peak)	5,000 : 1 (Typ.), 9,000 : 1 (Peak)	
Power Consumption (W/Cabinet, Avg.)     76     67       Power Consumption (W/m, Max.)     489, 543     459       Heat Dissipation (BTU/h/Cabinet, Max.)     338, 375     317       Heat Dissipation (BTU/h/Cabinet, Avg.)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg.)     1,667, 1,852     1,568       Power Supply (V)     100 to 240     100 to 240       Frame Rate (Hz)     50 / 60     50 / 60       Refresh Rate (Hz)     3,840     3,840       Operating Specifications     100,000     100,000       Idetime (Half Brightness)     100,000     100,000       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Rear     1P20     1P20       IP Rating Rear     1P20     1P20		Processing Depth (bit)	20 (HDR10, HDR10 Pro) <sup>3)</sup>		
Power Consumption (W/m², Max)     489, 543     459       Heat Dissipation (BTU/h/Cabinet, Max)     338, 375     317       Heat Dissipation (BTU/h/Cabinet, Avg)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg)     259     190       Power Supply (V)     100 to 240     100 to 240       Frame Rate (Hz)     3,840     3,840       Refresh Rate (Hz)     3,840     3,840       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Rear     1P20     1P20       IP Rating Front     1P20     1P20       IP Rating Rear     Safety 60950-1, EMC Class B, BS476 Part7 Class1     Safety 60950-1, EMC Class B       Certification     Safety 60950-1, EMC Class B, BS476 Part7 Class1     Safety 60950-1, EMC Class B		Power Consumption (W/Cabinet, Max.)	99, 110	93	
Heat Dissipation (BTU/h/Cabinet, Max.)     338,375     317       Heat Dissipation (BTU/h/Cabinet, Avg.)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg.)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg.)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg.)     1,667,1,852     1,568       Power Supply (V)     100 to 240     100 to 240       Frame Rate (Hz)     3,840     3,840       Refresh Rate (Hz)     3,840     3,840       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Temperature     0°C to +40°C     0°C to +40°C       IP Rating Front     11P20     11P20       IP Rating Front     1P20     1P20       IP Rating Rear     1P20     1P20       IP Rating Rear     Safety 60950-1, EMC Class B, BS476 Part7 Class1     Safety 60950-1, EMC Class B       Environment     RoHS     RoHS     RoHS		Power Consumption (W/Cabinet, Avg.)	76	67	
Electrical Specifications     Heat Dissipation (BTU/h/Cabinet, Avg.)     259     190       Heat Dissipation (BTU/h/Cabinet, Avg.)     1,667, 1,852     1,568       Power Supply (V)     100 to 240     100 to 240       Frame Rate (Hz)     50 / 60     50 / 60       Refresh Rate (Hz)     3,840     3,840       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Temperature     0°C to +40°C     0°C to +40°C       IP Rating Front     11P20     11P20       IP Rating Rear     11P20     1P20       IP Rating Rear     Safety 60950-1, EMC Class B, BS476 Part7 Class1     Safety 60950-1, EMC Class B       Environment     RoHS     RoHS     RoHS		Power Consumption (W/m², Max.)	489, 543	459	
Heat Dissipation (B10/h/Cabinet, Avg.)     A C 259     190       Heat Dissipation (B10/h/Cabinet, Avg.)     A C 259     190       Heat Dissipation (B10/h/Cabinet, Avg.)     A C 259     190       Heat Dissipation (B10/h/Cabinet, Avg.)     A C 259     A C 259       Power Supply (V)     A C 250     A C 250       Power Supply (V)     A C 100 to 240     A C 240       Frame Rate (Hz)     S O / 60     S O / 60       Refresh Rate (Hz)     A S A 40     A S A 40       Operating Temperature     O C to 440°C     O C to 440°C       Operating Temperature     O C to 40°C to 440°C     O C to 440°C       IP Rating Front     IP 20     IP 20       IP Rating Rear     IP 20     IP 20       IP Rating Rear     Safety 60950-1, EMC Class B, BS476 Part 7 Class 1     Safety 60950-1, EMC Class B       Certification     Safety 60950-1, EMC Class B, BS476 Part 7 Class 1     Safety 60950-1, EMC Class B	<b>F</b> 1	Heat Dissipation (BTU/h/Cabinet, Max.)	338, 375	317	
Heat Dissipation (BTU/m², Max.)     1,667,1852     1,568       Power Supply (V)     100 to 240     100 to 240       Frame Rate (Hz)     50 / 60     50 / 60       Refresh Rate (Hz)     3,840     3,840       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Temperature     0°C to +40°C     0°C to +40°C       IP Rating Front     1120     1120       IP Rating Rear     1120     1120       V     Certification     Safety 60950-1, EMC Class B, BS476 Part7 Class1     Safety 60950-1, EMC Class B		Heat Dissipation (BTU/h/Cabinet, Avg.)	259	190	
Frame Rate (Hz)     50 / 60       Refresh Rate (Hz)     50 / 60       Refresh Rate (Hz)     3,840       Agerseh Rate (Hz)     3,840       Lifetime (Half Brightness)     100,000       Operating Temperature     0°C to +40°C       Operating Humidity     10-80% RH       IP Rating Front     IP20       IP Rating Rear     IP20       Vertification     Safety 60950-1, EMC Class B, BS476 Part7 Class1       Safety 60950-1, EMC Class B, RoHS     RoHS	Specifications	Heat Dissipation (BTU/m², Max.)	1,667, 1,852	1,568	
Refresh Rate (Hz)     3,840     3,840       Operation     Lifetime (Half Brightness)     100,000     100,000       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Humidity     10-80% RH     10-80% RH       IP Rating Front     IP20     IP20       IP Rating Rear     Safety 60950-1, EMC Class B, BS476 Part7 Class1     Safety 60950-1, EMC Class B       Certification     Safety 60950-1, EMC Class B, BS476 Part7 Class1     RoHS		Power Supply (V)	100 to 240	100 to 240	
Operation Specifications     Lifetime (Half Brightness)     100,000     100,000       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Humidity     10-80% RH     10-80% RH       IP Rating Front     IP20     IP20       IP Rating Rear     IP20     IP20       Certification       Safety 60950-1, EMC Class B, BS476 Part7 Class1     Safety 60950-1, EMC Class B       Environment     RoHS		Frame Rate (Hz)	50 / 60	50 / 60	
Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Temperature     0°C to +40°C     0°C to +40°C       Operating Humidity     10-80% RH     10-80% RH       IP Rating Front     IP20     IP20       IP Rating Rear     IP20     IP20       Certification       Safety 60950-1, EMC Class B, BS476 Part7 Class1     Safety 60950-1, EMC Class B       Environment     RoHS		Refresh Rate (Hz)	3,840	3,840	
Operation Specifications     Operating Humidity     10-80% RH     10-80% RH       IP Rating Front     IP20     IP20       IP Rating Rear     IP20     IP20       Certification     Safety 60950-1, EMC Class B, BS476 Part7 Class1     Safety 60950-1, EMC Class B       Environment     RoHS     RoHS     RoHS		Lifetime (Half Brightness)	100,000	100,000	
Operating Humidity     10-80% RH     10-80% RH       IP Rating Front     IP 20     IP 20       IP Rating Rear     IP 20     IP 20       Certification     Safety 60950-1, EMC Class B, BS476 Part 7 Class 1     Safety 60950-1, EMC Class B       Environment     RoHS     RoHS     RoHS	Orantian	Operating Temperature	0°C to +40°C	0°C to +40°C	
IP Rating Front     IP 20     IP 20       IP Rating Rear     IP 20     IP 20       Certification     Safety 60950-1, EMC Class B, BS476 Part 7 Class 1     Safety 60950-1, EMC Class B       Environment     RoHS     RoHS		Operating Humidity	10-80% RH	10-80% RH	
Certification     Safety 60950-1, EMC Class B, BS476 Part7 Class1     Safety 60950-1, EMC Class B       Environment     RoHS     RoHS		IP Rating Front	IP20	IP20	
Environment RoHS RoHS		IP Rating Rear	IP20	IP20	
	Certification		Safety 60950-1, EMC Class B, BS476 Part7 Class1	Safety 60950-1, EMC Class B	
Controller CSAA-012X CSAA-015X2		Environment	RoHS	RoHS	
		Controller	CSAA-012X	CSAA-015X2	

<sup>1)</sup> Module can be accessed only from the front.
<sup>2)</sup> Adjustable via LED Assistant on PC
<sup>3)</sup> LG's own HDR solution to process HDR signal by using enhanced dynamic tone mapping.

Controller	Model Name	CSAA-012X	CSAA-015X2
	Unit Case	LSAA012-MX/SX	LSAA015-MX2/SX2
Max Output Range	Loading Capacity	3,840 × 2,160 @60Hz	3,840 × 2,160 @60Hz
	Output Resolution	8.2944 Millon Pixels	8.2944 Millon Pixels
Input	HDMI	HDMI 2.0	HDMI 2.0
	HDCP	HDCP 2.2	HDCP 2.2
	DP	DP 1.2 / HDCP 2.2	DP 1.2 / HDCP 2.2
Output	Ethernet (To LED Screen)	Yes (8-channel)	Yes (10-channel)
Control	LAN	Yes	Yes
Control	RS-232C	Yes (LOOP)	Yes (LOOP)
Sensor	Ambient Light	Yes	Yes
Sensor	Temperature	Yes	Yes
	Brightness Adjustment	Yes	Yes
	Chroma Adjustment	Yes	Yes
Video Processing	Improved Grayscale at Low Brightness	Yes	Yes
	Scaling	Yes	Yes
	HDR	HDR10 Pro	HDR10 Pro
Application	CMS	SuperSign CMS	SuperSign CMS
	webOS API	Yes	Yes
	LG ConnectedCare	Yes	Yes
	Configuration SW	LED Assistant	LED Assistant
Mechanical	Size (W × H × D, mm)	446 × 63 × 301	446 × 63 × 301
	Weight (Kg)	4.5	4.5



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