

Various Types of Indoor LEDs Offering Optimal Solution for Indoor Application

Superb image quality and reliable operation.



Series Key Features

Premium Fine-pitch

- 1,200 cd/m² high brightness
- 6,000:1 super contrast ratio
- LG 'Dynamic contrast algorithm' for lifelike vivid images
- Advanced auto module protection
- Controller built in media player and scaler

Standard

- Light-weight & slim design
- 1,000/800 cd/m² brightness
- Low power consumption
- Front/rear service access
- IP30 (front/rear)

Fine-pitch

- Light-weight & slim design
- 600 cd/m² brightness
- 16:9 aspect ratio unit case
- Front serviceability
- Dual redundant power supply and hot backup

High Brightness

- 2,000 cd/m² outstanding brightness
- 16bit color processing
- High quality SMD
- Slim casing design (96mm)
- Front/rear service access

Large Format

- Large unit case (720 x 960mm) for quick installation
- 1,000 cd/m² brightness
- Front serviceability (optional)
- Quiet design (no fan required)

Curved

- Concave & convex flexible
- High flexibility (up to 20 degrees with 5 levels)
- 1,000 cd/m² brightness
- Front/rear service access
- IP30 (front/rear)



Premium Fine-pitch

- LAP010BL2 (1.0 mm)
- LAP015LB2 (1.5 mm)
- LAP020BL4 (2.0 mm)



Fine-pitch

- LAS012DB2-F (1.26 mm)
- LAS014DB2-F (1.45 mm)
- LAS015DB2-F (1.58 mm)
- LAS018DB2-F (1.89 mm)
- LAS025DB2-F (H 2.52 / V 2.50 mm)



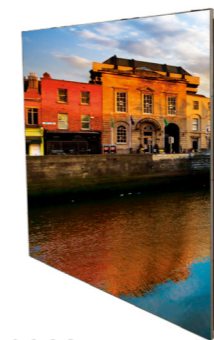
Large Format

- LAS040DB4DF (4.00 mm)
- LAS040DB4 (4.00 mm)
- LAS060DB4DF (6.00 mm)
- LAS060DB4 (6.00 mm)



Standard

- LAE029DD4 (2.91 mm)
- LAE039DD4 (3.90 mm)
- LAE039DD4D (3.90 mm)



High Brightness

- LAS040DA3D (4.00 mm)
- LAS060DA3D (6.00 mm)
- LAS100DA3D (10.00 mm)



Curved

- LAC029DD4 (2.90 mm)
- LAC039DD4 (3.90 mm)

LG Signage Introduction

Indoor LED Signage

※ Specifications are subject to change without notice

		PREMIUM FINE PITCH		
		LAP010BL2	LAP015BL2	LAP020BL4
Physical Parameters	Pixel Configuration	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD
	Pixel Pitch (mm)	1.00	1.50	2.00
	Module Resolution (W x H)	192 x 180	128 x 120	96 x 90
	Module Dimensions (W x H, mm)	192 x 180	192 x 180	192 x 180
	Weight per Module (kg)	-	-	-
	No. of Modules per Unit Case (W x H)	2 x 2	2 x 2	2 x 2
	Unit Case Resolution (W x H)	384 x 360	256 x 240	192 x 180
	Unit Case Dimensions (W x H x D, mm)	384 x 360 x 77	384 x 360 x 77	384 x 360 x 77
	Unit Case Surface Area (m ²)	0.138	0.138	0.138
	Weight per Unit Case (kg/unit)	5.0	5.0	5.0
	Weight per Square Meter (kg/m ²)	36.2	36.2	36.2
	Physical Pixel Density (pixels/m ²)	1,000,000	444,444	250,000
	Flatness of Unit Case (mm)	± 0.2	± 0.2	± 0.2
	Unit Case Material	Die Casting Alluminum	Die Casting Alluminum	Die Casting Alluminum
	Service Access	Rear	Rear	Rear
Optical Specifications	Min. Brightness (After Calibration)	1,000	1,200	1000 (TBD)
	Color Temperature	3,200 - 9,300	3,200 - 9,300	3,200 - 9,300
	Visual Viewing Angle (Horizontal)	160°	160°	160°
	Visual Viewing Angle (Vertical)	140°	140°	140°
	Brightness Uniformity	≥ 97%	≥ 97%	≥ 97%
	Color Uniformity	± 0.015Cx,Cy	± 0.015Cx,Cy	± 0.015Cx,Cy
	Contrast Ratio	6,000	6,000	6,000
	Processing Depth (bit)	16	16	16
Electrical Specifications	Power Consumption (W/Unit, Max.)	140	160	118 (TBD)
	Power Consumption (W/Unit, Avg.)	65	75	57 (TBD)
	Power Consumption (W/m ² , Max.)	1,013 (700@800nit)	1,158 (700@800nit)	850 (TBD)
	Power Supply (V)	100 to 240	100 to 240	100 to 240
	Frame Rate (Hz)	50 / 60	50 / 60	50 / 60
	Refresh Rate (Hz)	1,920	1,920	1,920
Operation Specifications	Lifetime (Half brightness)	100,000	100,000	50,000
	Operating Temperature (°C)	0 to +40	0 to +40	0 to +40
	Operating Humidity	10-80%RH	10-80%RH	10-80%RH (TBD)
	IP Rating Front	-	-	-
	IP Rating Rear	-	-	-
Controller	LCLG001	LCLG001	LCLG001	

*The Lifetime (Half brightness) spec is subject to LED package specifications.

		FINE PITCH				
		LAS012DB2-F	LAS014DB2-F	LAS015DB2-F	LAS018DB2-F	LAS025DB2-F
Physical Parameters	Pixel Configuration	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD
	Pixel Pitch (mm)	1.26	1.45	1.58	1.89	2.52 (H) / 2.50 (V)
	Module Resolution (W x H)	240 x 135	208 x 117	192 x 108	160 x 90	120 x 68
	Module Dimensions (W x H, mm)	302.4 x 170.1	302.4 x 170.1	302.4 x 170.1	302.4 x 170.1	302.4 x 170.1
	Weight per Module (kg)	0.52	0.52	0.52	0.52	0.52
	No. of Modules per Unit Case (W x H)	2 x 2	2 x 2	2 x 2	2 x 2	2 x 2
	Unit Case Resolution (W x H)	480 x 270	416 x 234	384 x 216	320 x 180	240 x 136
	Unit Case Dimensions (W x H x D, mm)	604.8 x 340.2 x 72.5	604.8 x 340.2 x 72.5	604.8 x 340.2 x 72.5	604.8 x 340.2 x 72.5	604.8 x 340.2 x 72.5
	Unit Case Surface Area (m ²)	0.206	0.206	0.206	0.206	0.206
	Weight per Unit Case (kg/unit)	5.3	5.3	5.3	5.3	5.3
	Weight per Square Meter (kg/m ²)	26.0	26.0	26.0	26.0	26.0
	Physical Pixel Density (pixels/m ²)	629,882	473,111	403,124	279,947	158,637
	Flatness of Unit Case (mm)	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5
	Unit Case Material	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy
	Service Access	Front Only	Front Only	Front Only	Front Only	Front Only
Optical Specifications	Min. Brightness (After Calibration)	600	600	600	600	600
	Color Temperature	3,000 - 10,000	3,000 - 10,000	3,000 - 10,000	3,000 - 10,000	3,000 - 10,000
	Visual Viewing Angle (Horizontal)	160°	160°	160°	160°	160°
	Visual Viewing Angle (Vertical)	140°	140°	140°	140°	140°
	Brightness Uniformity	≥ 97%	≥ 97%	≥ 97%	≥ 97%	≥ 97%
	Color Uniformity	± 0.003Cx,Cy	± 0.003Cx,Cy	± 0.003Cx,Cy	± 0.003Cx,Cy	± 0.003Cx,Cy
	Contrast Ratio	7,000	7,000	3,000	3,000	3,000
	Processing Depth (bit)	16	16	16	16	16
Electrical Specifications	Power Consumption (W/Unit, Max.)	128	128	123	123	123
	Power Consumption (W/Unit, Avg.)	43	43	41	41	41
	Power Consumption (W/m ² , Max.)	620	620	600	600	600
	Power Supply (V)	100 to 240	100 to 240	100 to 240	100 to 240	100 to 240
	Frame Rate (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
	Refresh Rate (Hz)	3,000	3,000	3,000	3,000	3,000
Operation Specifications	Lifetime (Half brightness)	50,000	50,000	50,000	50,000	50,000
	Operating Temperature (°C)	-10 to +40	-10 to +40	-10 to +40	-10 to +40	-10 to +40
	Operating Humidity	10-80%RH	10-80%RH	10-80%RH	10-80%RH	10-80%RH
	IP rating Front	-	-	-	-	-
	IP rating Rear	-	-	-	-	-
Controller	LCLY006HD	LCLY006HD	LCLY006HD	LCLY006HD	LCLY006HD	

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LG Signage Introduction

Indoor LED Signage

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		LARGE FORMAT			
		LAS040DB4DF	LAS040DB4	LAS060DB4DF	LAS060DB4
Physical Parameters	Pixel Configuration	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD
	Pixel Pitch (mm)	4.00	4.00	6.00	6.00
	Module Resolution (W x H)	60 x 60	60 x 60	40 x 40	40 x 40
	Module Dimensions (W x H, mm)	240 x 240	240 x 240	240 x 240	240 x 240
	Weight per Module (kg)	0.55	0.55	0.55	0.55
	No. of Modules per Unit Case (W x H)	3 x 4	3 x 4	4 x 4	4 x 4
	Unit Case Resolution (W x H)	180 x 240	180 x 240	160 x 160	160 x 160
	Unit Case Dimensions (W x H x D, mm)	720 x 960 x 136	720 x 960 x 136	960 x 960 x 136	960 x 960 x 136
	Unit Case Surface Area (m ²)	0.691	0.691	0.922	0.922
	Weight per Unit Case (kg/unit)	24.0	29.0	26.0	41.5
	Weight per Square Meter (kg/m ²)	34.7	42.0	28.2	45.0
	Physical Pixel Density (pixels/m)	62,500	62,500	27,777	27,777
	Flatness of Unit Case (mm)	± 0.1	± 0.1	± 0.1	± 0.1
	Unit Case Material	Aluminum	Iron	Aluminum	Iron
	Service Access	Front	Rear	Front	Rear
Optical Specifications	Min. Brightness (After Calibration)	1,000	1,000	1,000	1,000
	Color Temperature	3,200 - 9,300	3,200 - 9,300	3,200 - 9,300	3,200 - 9,300
	Visual Viewing Angle (Horizontal)	160°	160°	160°	160°
	Visual Viewing Angle (Vertical)	160°	160°	160°	160°
	Brightness Uniformity	≥ 97%	≥ 97%	≥ 97%	≥ 97%
	Color Uniformity	± 0.003Cx,Cy	± 0.003Cx,Cy	± 0.003Cx,Cy	± 0.003Cx,Cy
	Contrast Ratio	1,000	1,000	1,000	1,000
	Processing Depth (bit)	10	10	10	10
Electrical Specifications	Power Consumption (W/Unit, Max.)	500	500	498	498
	Power Consumption (W/Unit, Avg.)	166	166	166	166
	Power Consumption (W/m ² , Max.)	720	720	720	720
	Power Supply (V)	110 to 240	110 to 240	110 to 240	110 to 240
	Frame Rate (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
	Refresh Rate (Hz)	1,920	1,920	1,920	1,920
Operation Specifications	Lifetime (Half brightness)	50,000	50,000	50,000	50,000
	Operating Temperature (°C)	0 to +40	0 to +40	0 to +40	0 to +40
	Operating Humidity	10-80%RH	10-80%RH	10-80%RH	10-80%RH
	IP Rating Front	-	-	-	-
	IP Rating Rear	-	-	-	-
Controller	LCLY006HD	LCLY006HD	LCLY006HD	LCLY006HD	

*The Lifetime (Half brightness) spec is subject to LED package specifications.

		STANDARD		
		LAE029DD4	LAE039DD4	LAE039DD4D
Physical Parameters	Pixel Configuration	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD
	Pixel Pitch (mm)	2.91	3.90	3.90
	Module Resolution (W x H)	80 x 80	64 x 128	64 x 128
	Module Dimensions (W x H, mm)	232.8 x 232.8	250 x 500	250 x 500
	Weight per Module (kg)	0.80	1.20	1.20
	No. of Modules per Unit Case (W x H)	2 x 2	2 x 2	2 x 1
	Unit Case Resolution (W x H)	160 x 160	128 x 256	128 x 128
	Unit Case Dimensions (W x H x D, mm)	465.6 x 465.6 x 78	500 x 1,000 x 68	500 x 500 x 68
	Unit Case Surface Area (m ²)	0.220	0.500	0.500
	Weight per Unit Case (kg/unit)	8.7	12.0	7.2
	Weight per Square Meter (kg/m ²)	40.0	24.0	29.0
	Physical Pixel Density (pixels/m)	118,089	65,536	65,536
	Flatness of Unit Case (mm)	-	± 0.3	± 0.3
	Unit Case Material	Die-Cast Aluminum	Magnesium	Magnesium
	Service Access	Front or Rear	Front or Rear	Front or Rear
Optical Specifications	Min. Brightness (After Calibration)	800	1,000	1,000
	Color Temperature	6,500	6,500	6,500
	Visual Viewing Angle (Horizontal)	110°	110°	110°
	Visual Viewing Angle (Vertical)	110°	110°	110°
	Brightness Uniformity	97%	97%	97%
	Color Uniformity	± 0.003Cx,Cy	± 0.003Cx,Cy	± 0.003Cx,Cy
	Contrast Ratio	2,000	5,000	5,000
	Processing Depth (bit)	14	14	14
Electrical Specifications	Power Consumption (W/Unit, Max.)	85	300	160
	Power Consumption (W/Unit, Avg.)	28	100	53
	Power Consumption (W/m ² , Max.)	390	600	600
	Power Supply (V)	100 to 240	100 to 240	100 to 240
	Frame Rate (Hz)	50 / 60	50 / 60	50 / 60
	Refresh Rate (Hz)	1,000 - 3,840	1,000 - 3,840	1,000 - 3,840
Operation Specifications	Lifetime (Half brightness)	50,000	50,000	50,000
	Operating Temperature (°C)	-10 to +45	-10 to +45	-10 to +45
	Operating Humidity	0-80%RH	0-80%RH	0-80%RH
	IP Rating Front	IP30	IP30	IP30
	IP Rating Rear	IP30	IP30	IP30
Controller	LCIN006	LCIN006	LCIN006	

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LG Signage Introduction

Indoor LED Signage

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		HIGH BRIGHTNESS		
		LAS040DA3D	LAS060DA3D	LAS100DA3D
Physical Parameters	Pixel Configuration	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD
	Pixel Pitch (mm)	4.00	6.00	10.00
	Module Resolution (W x H)	60 x 60	40 x 40	24 x 24
	Module Dimensions (W x H, mm)	240 x 240	240 x 240	240 x 240
	Weight per Module (kg)	0.70	0.60	0.58
	No. of Modules per Unit Case (W x H)	4x4	4x4	8x4
	Unit Case Resolution (W x H)	240 x 240	160 x 160	192 x 96
	Unit Case Dimensions (W x H x D, mm)	960 x 960 x 96	960 x 960 x 97	1920 x 960 x 97
	Unit Case Surface Area (m ²)	0.922	0.922	1.843
	Weight per Unit Case (kg/unit)	30.0	30.0	56.0
	Weight per Square Meter (kg/m ²)	32.6	32.6	30.4
	Physical Pixel Density (pixels/m)	62,500	27,777	10,000
	Flatness of Unit Case (mm)	±1.0	±1.0	±1.0
	Unit Case Material	Aluminum	Aluminum	Aluminum
	Service Access	Front and Rear	Front and Rear	Front and Rear
Optical Specifications	Min. Brightness (After Calibration)	2,000	2,000	2,000
	Color Temperature	6,500	6,500	6,500
	Visual Viewing Angle (Horizontal)	160°	160°	160°
	Visual Viewing Angle (Vertical)	140°	140°	140°
	Brightness Uniformity	≥ 97%	≥ 97%	≥ 97%
	Color Uniformity	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy
	Contrast Ratio	5,000	2,000	2,000
	Processing Depth (bit)	16	16	16
Electrical Specifications	Power Consumption (W/Unit, Max.)	713	748	1553
	Power Consumption (W/Unit, Avg.)	285	299	621
	Power Consumption (W/m ² , Max.)	774	811	842
	Power Supply (V)	100 to 240	100 to 240	100 to 240
	Frame Rate (Hz)	50 / 60	50 / 60	50 / 60
	Refresh Rate (Hz)	4,000	4,000	4,000
Operation Specifications	Lifetime (Half brightness)	100,000	100,000	100,000
	Operating Temperature (°C)	0 to +40	0 to +40	0 to +40
	Operating Humidity	10-90%RH	10-90%RH	10-90%RH
	IP Rating Front	IP40	IP40	IP40
	IP Rating Rear	IP20	IP20	IP20
Controller	LCLH001	LCLH001	LCLH001	

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		CURVED	
		LAC029DD4	LAC039DD4
Physical Parameters	Pixel Configuration	3 in 1 SMD	3 in 1 SMD
	Pixel Pitch (mm)	2.90	3.90
	Module Resolution (W x H)	168 x 42	128 x 32
	Module Dimensions (W x H, mm)	500 x 125	500 x 125
	Weight per Module (kg)	1.00	1.00
	No. of Modules per Unit Case (W x H)	1 x 4	1 x 4
	Unit Case Resolution (W x H)	168 x 168	128 x 128
	Unit Case Dimensions (W x H x D, mm)	500 x 500 x 84	500 x 500 x 84
	Unit Case Surface Area (m ²)	0.250	0.250
	Weight per Unit Case (kg/unit)	8.9	8.9
	Weight per Square Meter (kg/m ²)	35.6	35.6
	Physical Pixel Density (pixels/m)	112,896	65,536
	Flatness of Unit Case (mm)	-	-
	Unit Case Material	Diecast Aluminum	Diecast Aluminum
	Service Access	Front or Rear	Front or Rear
Optical Specifications	Min. Brightness (After Calibration)	1,000	1,000
	Color Temperature	6,500	6,500
	Visual Viewing Angle (Horizontal)	110°	110°
	Visual Viewing Angle (Vertical)	110°	110°
	Brightness Uniformity	97%	97%
	Color Uniformity	± 0.003Cx,Cy	± 0.003Cx,Cy
	Contrast Ratio	2,000	2,000
	Processing Depth (bit)	14	14
Electrical Specifications	Power Consumption (W/Unit, Max.)	120	150
	Power Consumption (W/Unit, Avg.)	40	50
	Power Consumption (W/m ² , Max.)	480	600
	Power Supply (V)	100 to 240	100 to 240
	Frame Rate (Hz)	50 / 60	50 / 60
	Refresh Rate (Hz)	1,000 - 3,840	1,000 - 3,840
Operation Specifications	Lifetime (Half brightness)	50,000	50,000
	Operating Temperature (°C)	-10 to +45	-10 to +45
	Operating Humidity	0-80%RH	0-80%RH
	IP rating Front	IP30	IP30
	IP rating Rear	IP30	IP30
Controller	LCIN006	LCIN006	

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