

Robust Quality & Leading Performance for Outdoor Application

Delivering an impressive eye-catching experience.



Series Key Features

Stadium

- Superb original color representation (HDTV standard)
- 6,000 cd/m² high brightness
- Excellent color / brightness uniformity
- 16 bit color processing
- High refresh rate (4,000Hz)
- Various pitches and types
- Large unit case size for easy maintenance
- IP65/54 (front/rear)

High Performance Slim

- Stunning Image Quality
- Light weight & Slim Design for wider application
- Low power consumption
- Two versions available (CREE / Multicolor)
- IP65/54 (front/rear)

Standard

- Versatile performance
- 5,000 cd/m² brightness
- Light-weight & slim design
- Fast lock for quick installation and easy maintenance
- Half unit case size for various screen size configurations (4.63/6.94mm)
- IP65/IP54 (front/rear)



Stadium Scoreboard (SMD)

- LBS060DA1D (6.00 mm)
- LBS080DA1D (8.00 mm)
- LBS100DA1D (10.67 mm)
- LBS120DA1D (12.00 mm)
- LBS160DA1D (16.00 mm)
- LBS060DA3D (6.00 mm)
- LBS080DA3D (8.00 mm)
- LBS100DA3D (10.67 mm)
- LBS120DA3D (12.00 mm)
- LBS160DA3D (16.00 mm)



Stadium Scoreboard (OVAL)

- LBS160VA1D (12.00 mm)
- LBS200VA1D (16.00 mm)



Stadium Ribbon Board (SMD)

- LBF160DA1D (16.00 mm)



Stadium Perimeter (SMD)

- LBB160DA1D (16.00 mm)



High Performance Slim

- LBS062DA1-V (6.30 mm)
- LBS083DA1-V (8.33 mm)
- LBS100DA1-V (10.00 mm)
- LBS062DA3-V (6.30 mm)
- LBS083DA3-V (8.33 mm)
- LBS100DA3-V (10.00 mm)



Standard

- LBE046DD4 (4.63 mm)
- LBE069DD4 (6.94 mm)
- LBE080DD4 (8.00 mm)
- LBS100DD5 (10.00 mm)
- LBE046DD4D (4.63 mm)
- LBE069DD4D (6.94 mm)
- LBE100DD4 (10.00 mm)

LG Signage Introduction

Outdoor LED Signage

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		STADIUM SCOREBOARD				
		LBS060DA1D	LBS060DA3D	LBS080DA1D	LBS080DA3D	LBS100DA1D
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)	6.00	6.00	8.00	8.00	10.67
	Module Resolution (W x H)	32 x 32	32 x 32	24 x 24	24 x 24	18 x 18
	Module Dimensions (W x H, mm)	192 x 192	192 x 192	192 x 192	192 x 192	192 x 192
	Weight per Module (kg)	0.54	0.54	0.57	0.57	0.56
	No. of Modules per Unit Case (W x H)	6 x 4	6 x 4	8 x 8	8 x 8	8 x 8
	Unit Case Resolution (W x H)	192 x 128	192 x 128	192 x 192	192 x 192	144 x 144
	Unit Case Dimensions (W x H x D, mm)	1,152 x 768 x 217	1,152 x 768 x 217	1,536 x 1,536 x 222	1,536 x 1,536 x 222	1,536 x 1,536 x 222
	Unit Case Surface Area (㎡)	0.885	0.885	2.359	2.359	2.359
	Weight per Unit Case (kg/unit)	42.0	42.0	104.0	104.0	104.0
	Weight per Square Meter (kg/㎡)	47.5	47.5	44.1	44.1	44.1
	Physical Pixel Density (pixels/m)	27,777	27,777	15,625	15,625	8,836
	Flatness of Unit Case (mm)	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0
	Unit Case Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Service Access	Front or Rear	Front or Rear	Front and Rear	Front and Rear	Front and Rear
Optical Specifications	Min. Brightness (After Calibration)	6,000	6,000	6,000	6,000	6,000
	Color Temperature	6,500	6,500	6,500	6,500	6,500
	Visual Viewing Angle (Horizontal)	160°	160°	160°	160°	160°
	Visual Viewing Angle (Vertical)	90°	90°	90°	90°	110°
	Brightness Uniformity	≥ 97%	≥ 97%	≥ 97%	≥ 97%	≥ 97%
	Color Uniformity	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy
	Contrast Ratio	3,000	3,000	3,000	3,000	3,000
	Processing Depth (bit)	16	16	16	16	16
Electrical Specifications	Power Consumption (W/Unit, Max.)	736	667	1,932	1,771	1,817
	Power Consumption (W/Unit, Avg.)	294	267	773	708	727
	Power Consumption (W/㎡, Max.)	832	754	819	751	770
	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)	4,000	4,000	4,000	4,000	4,000
Operation Specifications	Lifetime (Half brightness)	100,000	100,000	100,000	100,000	100,000
	Operating Temperature (°C)	-20 to +50	-20 to +50	-20 to +50	-20 to +50	-20 to +50
	Operating Humidity	10-90%RH	10-90%RH	10-90%RH	10-90%RH	10-90%RH
	IP Rating Front	IP65	IP65	IP65	IP65	IP65
	IP Rating Rear	IP54	IP54	IP54	IP54	IP54
Controller		LCLH001	LCLH001	LCLH001	LCLH001	LCLH001

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

		STADIUM SCOREBOARD				
		LBS100DA3D	LBS120DA1D	LBS120DA3D	LBS160DA1D	LBS160DA3D
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)	10.67	12.00	12.00	16.00	16.00
	Module Resolution (W x H)	18 x 18	16 x 16	16 x 16	12 x 12	12 x 12
	Module Dimensions (W x H, mm)	192 x 192	192 x 192	192 x 192	192 x 192	192 x 192
	Weight per Module (kg)	0.56	0.56	0.56	0.56	0.56
	No. of Modules per Unit Case (W x H)	8 x 8	8 x 8	8 x 8	8 x 8	8 x 8
	Unit Case Resolution (W x H)	144 x 144	128 x 128	128 x 128	96 x 96	96 x 96
	Unit Case Dimensions (W x H x D, mm)	1,536 x 1,536 x 222	1,536 x 1,536 x 223	1,536 x 1,536 x 223	1,536 x 1,536 x 227	1,536 x 1,536 x 227
	Unit Case Surface Area (㎡)	2.359	2.359	2.359	2.359	2.359
	Weight per Unit Case (kg/unit)	104.0	104.0	104.0	104.0	104.0
	Weight per Square Meter (kg/㎡)	44.1	44.1	44.1	44.1	44.1
	Physical Pixel Density (pixels/m)	8,836	6,944	6,944	3,906	3,906
	Flatness of Unit Case (mm)	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0
	Unit Case Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Service Access	Front and Rear	Front and Rear	Front and Rear	Front and Rear	Front and Rear
Optical Specifications	Min. Brightness (After Calibration)	6,000	6,000	6,000	6,000	6,000
	Color Temperature	6,500	6,500	6,500	6,500	6,500
	Visual Viewing Angle (Horizontal)	160°	160°	160°	160°	160°
	Visual Viewing Angle (Vertical)	110°	100°	100°	90°	90°
	Brightness Uniformity	≥ 97%	≥ 97%	≥ 97%	≥ 97%	≥ 97%
	Color Uniformity	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy
	Contrast Ratio	3,000	3,000	3,000	3,000	3,000
	Processing Depth (bit)	16	16	16	16	16
Electrical Specifications	Power Consumption (W/Unit, Max.)	1,737	1,783	1,737	1,760	1,668
	Power Consumption (W/Unit, Avg.)	695	713	695	704	667
	Power Consumption (W/㎡, Max.)	736	756	736	746	707
	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)	4,000	4,000	4,000	4,000	4,000
Operation Specifications	Lifetime (Half brightness)	100,000	100,000	100,000	100,000	100,000
	Operating Temperature (°C)	-20 to +50	-20 to +50	-20 to +50	-20 to +50	-20 to +50
	Operating Humidity	10-90%RH	10-90%RH	10-90%RH	10-90%RH	10-90%RH
	IP Rating Front	IP65	IP65	IP65	IP65	IP65
	IP Rating Rear	IP54	IP54	IP54	IP54	IP54
Controller		LCLH001	LCLH001	LCLH001	LCLH001	LCLH001

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		STADIUM SCOREBOARD	STADIUM RIBBON BOARD	STADIUM PERIMETER	
		LBS160VA1D	LBS200VA1D	LBF160DA1D	LBB160DA1D
Physical Parameters	Pixel Configuration	Oval	Oval	3 in 1 SMD	3 in 1 SMD
	Pixel Pitch (mm)	16.00	20.00	16.00	16.00
	Module Resolution (W x H)	20 x 20	16 x 16	12 x 12	12 x 12
	Module Dimensions (W x H, mm)	320 x 320	320 x 320	192 x 192	192 x 192
	Weight per Module (kg)	2.15	2.15	0.90	0.51
	No. of Modules per Unit Case (W x H)	8x6	8x6	4x5	8x5
	Unit Case Resolution (W x H)	160 x 120	128 x 96	48 x 60	96 x 60
	Unit Case Dimensions (W x H x D, mm)	2,560 x 1,920 x 254	2,560 x 1,920 x 254	768 x 960 x 254	1,536 x 960 x 215
	Unit Case Surface Area (㎡)	4.915	4.915	0.737	1.475
	Weight per Unit Case (kg/unit)	218.0	218.0	40.0	72.0
	Weight per Square Meter (kg/㎡)	44.4	44.4	54.3	48.8
	Physical Pixel Density (pixels/m')	3,906	2,500	3,906	3,906
	Flatness of Unit Case (mm)	± 1.0	± 1.0	± 1.0	± 1.0
	Unit Case Material	Aluminum	Aluminum	Aluminum	Aluminum
	Service Access	Front and Rear	Front and Rear	TOP	Front and Rear
Optical Specifications	Min. Brightness (After Calibration)	7,500	6,000	6,000	6,000
	Color Temperature	6,500	6,500	6,500	6,500
	Visual Viewing Angle (Horizontal)	160°	160°	160°	160°
	Visual Viewing Angle (Vertical)	60°	60°	90°	90°
	Brightness Uniformity	≥ 97%	≥ 97%	≥ 97%	≥ 97%
	Color Uniformity	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy
	Contrast Ratio	3,000	3,000	3,000	3,000
	Processing Depth (bit)	16	16	16	16
Electrical Specifications	Power Consumption (W/Unit, Max.)	3,002	2,933	575	1,150
	Power Consumption (W/Unit, Avg.)	1,201	1,173	230	460
	Power Consumption (W/㎡, Max.)	611	597	780	780
	Power Supply (V)	100 to 240	100 to 240	100 to 240	100 to 240
	Frame Rate (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
	Refresh Rate (Hz)	4,000	4,000	4,000	4,000
Operation Specifications	Lifetime (Half brightness)	100,000	100,000	100,000	100,000
	Operating Temperature (°C)	-20 to +50	-20 to +50	-20 to +50	-20 to +50
	Operating Humidity	10-90%RH	10-90%RH	10-90%RH	10-90%RH
	IP Rating Front	IP65	IP65	IP65	IP65
	IP Rating Rear	IP54	IP54	IP43	IP54
Controller		LCLH001	LCLH001	LCLH001	LCLH001

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		HIGH PERFORMANCE SLIM					
		LBS062DA1-V	LBS062DA3-V	LBS083DA1-V	LBS083DA3-V	LBS100DA1-V	LBS100DA3-V
Physical Parameters	Pixel Configuration	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD
	Pixel Pitch (mm)	6.30	6.30	8.33	8.33	10.00	10.00
	Module Resolution (W x H)	64 x 64	64 x 64	48 x 48	48 x 48	40 x 40	40 x 40
	Module Dimensions (W x H, mm)	400 x 400	400 x 400	400 x 400	400 x 400	400 x 400	400 x 400
	Weight per Module (kg)	2.45	2.45	2.45	2.45	2.45	2.45
	No. of Modules per Unit Case (W x H)	2 x 4	2 x 4	2 x 4	2 x 4	2 x 4	2 x 4
	Unit Case Resolution (W x H)	128 x 256	128 x 256	96 x 192	96 x 192	80 x 160	80 x 160
	Unit Case Dimensions (W x H x D, mm)	800 x 1,600 x 1,43.5	800 x 1,600 x 143.5	800 x 1,600 x 143.5	800 x 1,600 x 143.5	800 x 1,600 x 143.5	800 x 1,600 x 143.5
	Unit Case Surface Area (㎡)	1.280	1.280	1.280	1.280	1.280	1.280
	Weight per Unit Case (kg/unit)	40.0	40.0	40.0	40.0	40.0	40.0
	Weight per Square Meter (kg/㎡)	31.3	31.3	31.3	31.3	31.3	31.3
	Physical Pixel Density (pixels/m')	25,600	25,600	14,411	14,411	10,000	10,000
	Flatness of Unit Case (mm)	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
	Unit Case Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Service Access	Front and Rear	Front and Rear	Front and Rear	Front and Rear	Front and Rear	Front and Rear
Optical Specifications	Min. Brightness (After Calibration)	6,000	6,000	6,000	6,000	6,000	6,000
	Color Temperature	6,500	6,500	6,500	6,500	6,500	6,500
	Visual Viewing Angle (Horizontal)	160°	160°	160°	160°	160°	160°
	Visual Viewing Angle (Vertical)	90°	90°	90°	90°	110°	110°
	Brightness Uniformity	≥ 97%	≥ 97%	≥ 97%	≥ 97%	≥ 97%	≥ 97%
	Color Uniformity	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy	± 0.05Cx,Cy
	Contrast Ratio	3,000	3,000	3,000	3,000	3,000	3,000
	Processing Depth (bit)	16	16	16	16	16	16
Electrical Specifications	Power Consumption (W/Unit, Max.)	920	955	943	978	920	943
	Power Consumption (W/Unit, Avg.)	368	382	377	391	368	377
	Power Consumption (W/㎡, Max.)	719	746	737	764	719	737
	Power Supply (V)	100 to 240	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	50 / 60
	Refresh Rate (Hz)	4,000	4,000	4,000	4,000	4,000	4,000
Operation Specifications	Lifetime (Half brightness)	100,000	100,000	100,000	100,000	100,000	100,000
	Operating Temperature (°C)	-20 to +50	-20 to +50	-20 to +50	-20 to +50	-20 to +50	-20 to +50
	Operating Humidity	10-90%RH	10-90%RH	10-90%RH	10-90%RH	10-90%RH	10-90%RH
	IP Rating Front	IP65	IP65	IP65	IP65	IP65	IP65
	IP Rating Rear	IP65	IP65	IP65	IP65	IP65	IP65
Controller		LCLH001	LCLH001	LCLH001	LCLH001	LCLH001	LCLH001

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		STANDARD		
		LBE046DD4	LBE046DD4D	LBE069DD4
Physical Parameters	Pixel Configuration	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD
	Pixel Pitch (mm)	4.63	4.63	6.94
	Module Resolution (W x H)	54 x 108	54 x 108	36 x 72
	Module Dimensions (W x H, mm)	250 x 500	250 x 500	250 x 500
	Weight per Module (kg)	1.80	1.80	1.80
	No. of Modules per Unit Case (W x H)	2 x 2	2 x 1	2 x 2
	Unit Case Resolution (W x H)	108 x 216	108 x 108	72 x 144
	Unit Case Dimensions (W x H x D, mm)	500 x 1,000 x 68	500 x 500 x 68	500 x 1,000 x 68
	Unit Case Surface Area (㎡)	0.500	0.500	0.500
	Weight per Unit Case (kg/unit)	12.0	7.5	12.0
	Weight per Square Meter (kg/㎡)	24.0	30.0	24.0
	Physical Pixel Density (pixels/m')	46,656	46,656	20,736
	Flatness of Unit Case (mm)	± 0.5	± 0.5	± 0.5
	Unit Case Material	Magnesium	Magnesium	Magnesium
	Service Access	Rear	Rear	Rear
Optical Specifications	Min. Brightness (After Calibration)	5,000	5,000	5,000
	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	5,000	5,000	5,000
	Processing Depth (bit)	14	14	14
Electrical Specifications	Power Consumption (W/Unit, Max.)	300	160	300
	Power Consumption (W/Unit, Avg.)	100	53	100
	Power Consumption (W/㎡, Max.)	600	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)	3,000	3,000	3,000
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	IP65	IP65	IP65
	IP Rating Rear	IP543	IP54	IP54
Controller		LCIN006	LCIN006	LCIN006

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		STANDARD			
		LBE069DD4D	LBE080DD4	LBE100DD4	LBS100DD5
Physical Parameters	Pixel Configuration	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD
	Pixel Pitch (mm)	6.94	8.00	10.00	10.00
	Module Resolution (W x H)	36 x 72	40 x 30	32 x 24	32 x 24
	Module Dimensions (W x H, mm)	250 x 500	320 x 240	320 x 240	320 x 240
	Weight per Module (kg)	1.80	1.30	1.30	1.30
	No. of Modules per Unit Case (W x H)	2 x 1	2 x 3	2 x 3	2 x 3
	Unit Case Resolution (W x H)	72 x 72	80 x 90	64 x 72	64 x 72
	Unit Case Dimensions (W x H x D, mm)	500 x 500 x 68	640 x 720 x 90	640 x 720 x 90	640 x 720 x 90
	Unit Case Surface Area (㎡)	0.500	0.461	0.461	0.461
	Weight per Unit Case (kg/unit)	7.5	17.0	17.0	17.0
	Weight per Square Meter (kg/㎡)	30.0	36.9	36.9	36.9
	Physical Pixel Density (pixels/m')	20,736	15,625	10,000	10,000
	Flatness of Unit Case (mm)	± 0.5	-	-	± 0.5
	Unit Case Material	Magnesium	Aluminum	Aluminum	Aluminum
	Service Access	Rear	Front or Rear	Front or Rear	Front or Rear
Optical Specifications	Min. Brightness (After Calibration)	5,000	5,000	5,000	6,000
	Color Temperature	6,500	6,500	6,500	6,500
	Visual Viewing Angle (Horizontal)	110°	140°	140°	160°
	Visual Viewing Angle (Vertical)	110°	110°	110°	110°
	Brightness Uniformity	97%	≥ 97%	≥ 97%	≥97%
	Color Uniformity	± 0.003Cx,Cy	± 0.003Cx,Cy	± 0.003Cx,Cy	± 0.003Cx,Cy
	Contrast Ratio	5,000	2,000	2,000	5,000
	Processing Depth (bit)	14	14	14	14
Electrical Specifications	Power Consumption (W/Unit, Max.)	160	300	300	300
	Power Consumption (W/Unit, Avg.)	53	100	100	100
	Power Consumption (W/㎡, Max.)	600	650	650	650
	Power Supply (V)	100 to 240	100 to 240	100 to 240	100 to 240
	Frame Rate (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
	Refresh Rate (Hz)	3,000	1,000	1,000	2,000
Operation Specifications	Lifetime (Half brightness)	50,000	50,000	50,000	80,000
	Operating Temperature (°C)	-10 to +45	-10 to +45	-10 to +45	-10 to +50
	Operating Humidity	0-80%	0-80%RH	0-80%RH	0-80%RH
	IP Rating Front	IP65	IP65	IP65	IP65
	IP Rating Rear	IP54	IP54	IP54	IP54
Controller		LCIN006	LCIN006	LCIN006	LCIN006

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