LG Miraclass

Cinema Experience Redefined

LDAA012   LDAA025   LAD033F

*All images in this datasheet are for illustrative purposes only.

Sharp Contrast Ratio	Vivid and Expressive Colors	Adjustable Luminance
3D Viewing Available	User-friendly Operation	Dolby Compatibility

LG | Business Solutions

Discover New Depths with True Black Immersion

With its series of individual, self-emissive LEDs, the LG Miraclass adds extra depth to the dark end of the spectrum. This results in distinctive and eye-catching contrast, taking the viewing experience to a whole new level.

Feast Your Eyes on a Festival of Color

With 24-bit color processing, capable of displaying 68.7 billion color variants, the LG Miraclass reproduces DCI-P3 colors just as the content creators intended. From elegant dark tones to vibrant primary colors and warm earthy hues, movie goers can enjoy a chromatic viewing experience unlike any other.

Single Light Source Projection

Self-emissive LED Screen

Brightness Brings Detail to Life

Unlike standard projectors, which use a single light source, the LG Miraclass is made up of self-emissive LEDs working independently. The result is bright and brilliant picture quality, with no corner dimming or image distortion. From top to bottom, enjoy clear and consistent image representation.

| 48 nit | 100~130 nit | 260 nit | 300 nit |

Brightness to Illuminate and Inspire

Adjust the brightness to your preferred setting, with five stages ranging from 48 to 300 nits. Whether hosting intimate movie screenings or corporate presentations, personalize your viewing experience and make your media the highlight.


Take Picture Quality to Another Dimension

3D imaging from LG Miraclass provides superior visuals. With consistent brightness and clarity from corner to corner of the screen, audiences can fully immerse themselves in the 3D viewing experience wherever they sit.

* 3D active glasses (Volfoni, XpanD) are required.

Easy Operation with Intuitive Software

Dedicated management software is on hand to help operators run the new LED screens smoothly and with confidence. Various functions can now be accessed at the touch of a button, including 12 macro input presets, 2D-to-3D configuration, brightness settings, and video positioning adjustment.
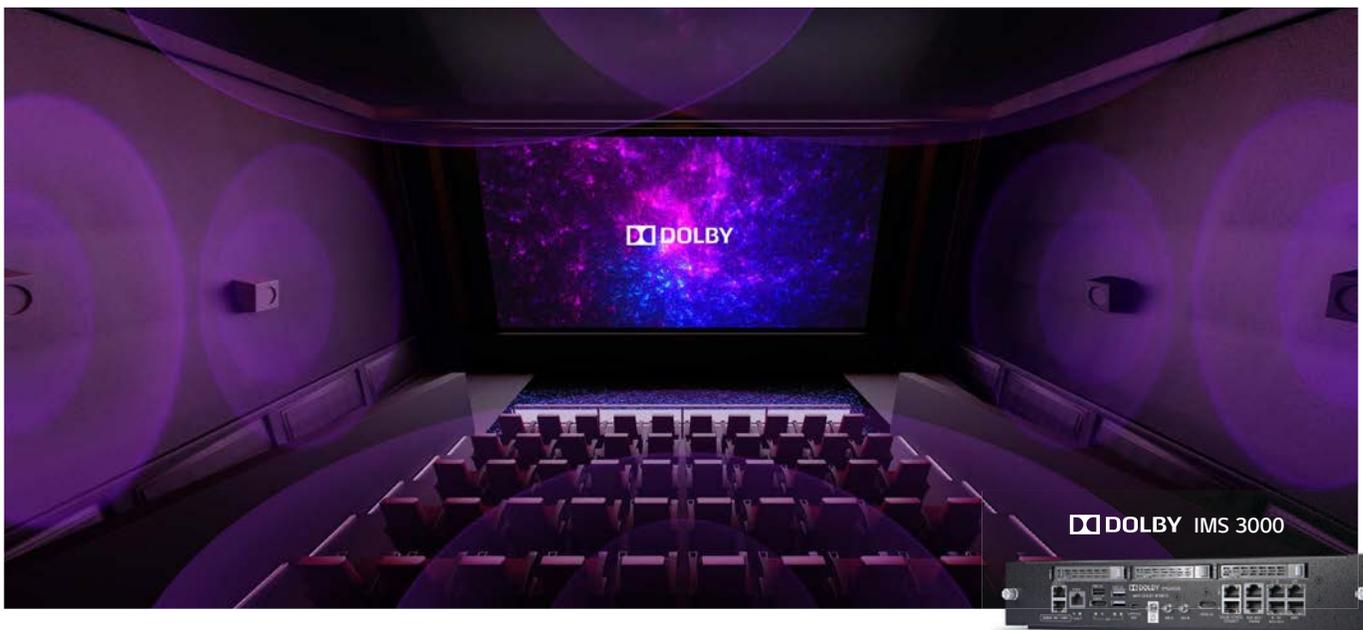
Dolby-Compatible LED Screen

The new LG Miraclass can be quickly and seamlessly integrated into theaters, thanks to its compatibility with Dolby, a global leader in the entertainment industry. Dolby IMS supports stable and professional content operation, while the combination of Dolby Atmos sound and LG picture quality makes movies truly memorable.

* Dolby, Dolby Atmos and the double-D symbol are registered trademarks of Dolby Laboratories.
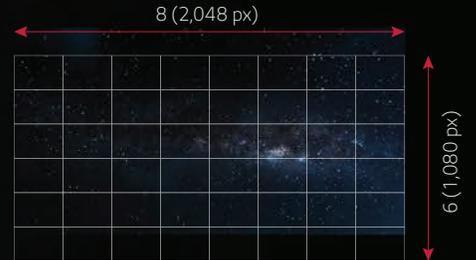
LDAA025 SCREEN CONFIGURATION

4K Screen (192 Cabinets)
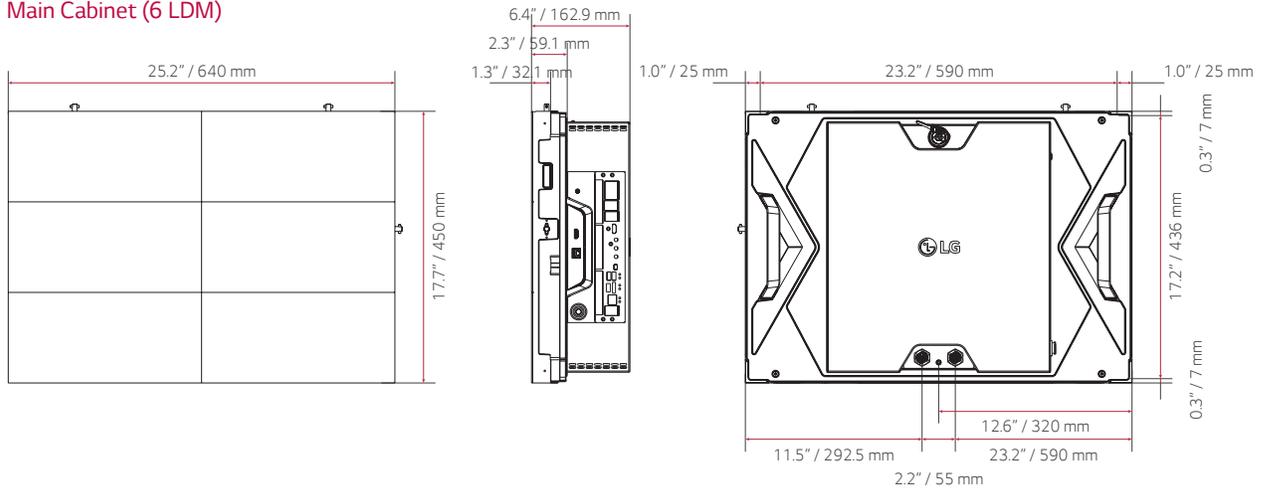
33.5 ft. x 17.7 ft (596 sqft)
10.2 m × 5.4 m (55 sqm)

16 (4,096 px)

12 (2,160 px)

2K Screen (48 Cabinets)

16.7 ft x 8.9 ft (148 sqft)
5.1 m × 2.7 m (14 sqm)

8 (2,048 px)

6 (1,080 px)

LDAA025 CABINET DIMENSIONS
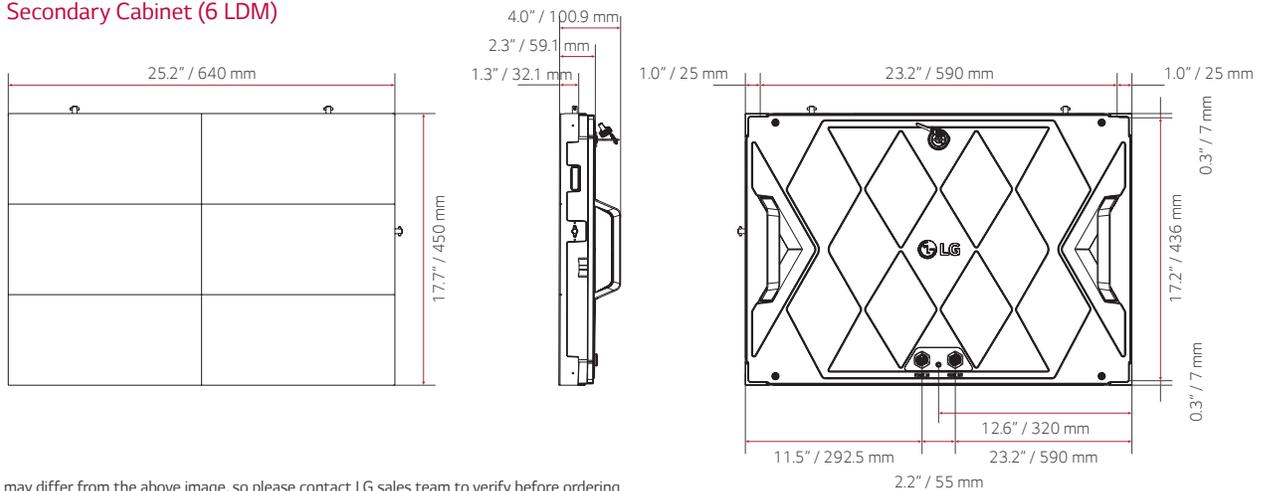
Main Cabinet (6 LDM)

25.2" / 640 mm

17.7" / 450 mm

6.4" / 162.9 mm
2.3" / 59.1 mm
1.3" / 32.1 mm

1.0" / 25 mm
23.2" / 590 mm
1.0" / 25 mm
0.3" / 7 mm
17.2" / 436 mm
0.3" / 7 mm

12.6" / 320 mm
11.5" / 292.5 mm
23.2" / 590 mm
2.2" / 55 mm

Secondary Cabinet (6 LDM)

25.2" / 640 mm

17.7" / 450 mm

4.0" / 100.9 mm
2.3" / 59.1 mm
1.3" / 32.1 mm

1.0" / 25 mm
23.2" / 590 mm
1.0" / 25 mm
0.3" / 7 mm
17.2" / 436 mm
0.3" / 7 mm

12.6" / 320 mm
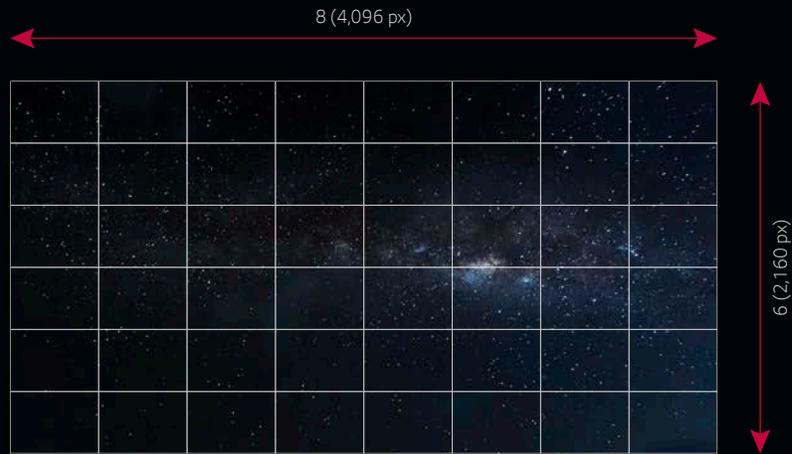11.5" / 292.5 mm
23.2" / 590 mm
2.2" / 55 mm

* Dimensions may differ from the above image, so please contact LG sales team to verify before ordering.
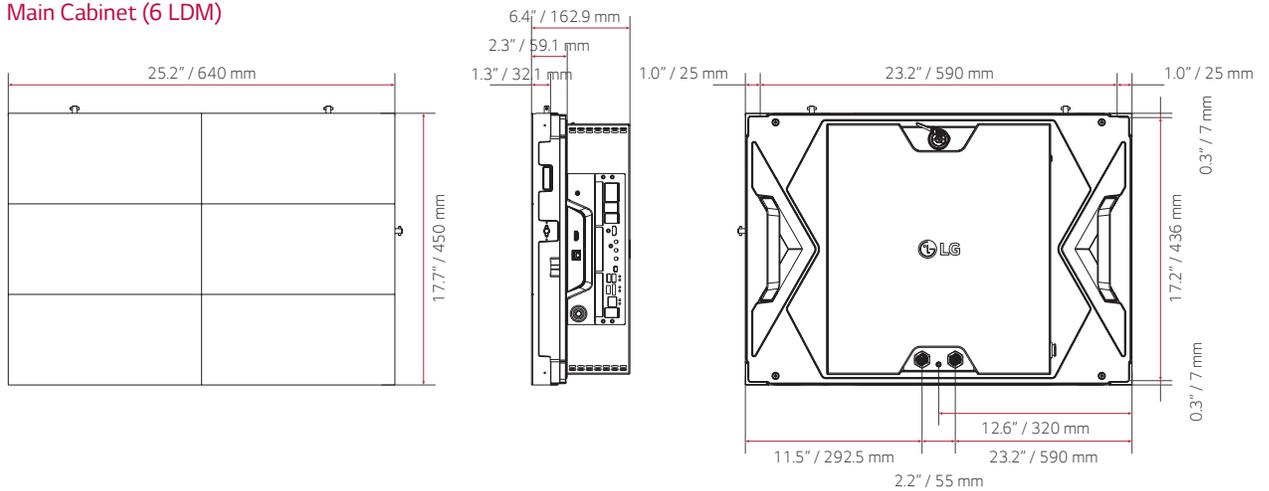
LDAA012 SCREEN CONFIGURATION
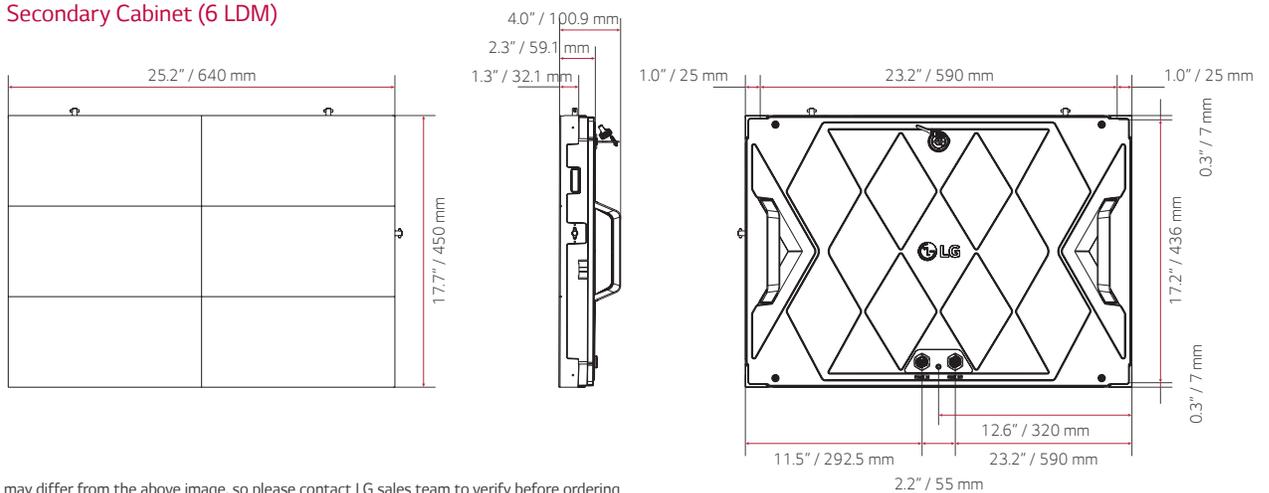
4K Screen (48 Cabinets)

5.1 m × 2.7 m (14 sqm)

8 (4,096 px)

6 (2,160 px)

LDAA012 CABINET DIMENSIONS

Main Cabinet (6 LDM)

25.2" / 640 mm

17.7" / 450 mm

6.4" / 162.9 mm

2.3" / 59.1 mm

1.3" / 32.1 mm

1.0" / 25 mm

23.2" / 590 mm

1.0" / 25 mm

0.3" / 7 mm

17.2" / 436 mm

0.3" / 7 mm

12.6" / 320 mm

11.5" / 292.5 mm

23.2" / 590 mm

2.2" / 55 mm

Secondary Cabinet (6 LDM)

25.2" / 640 mm

17.7" / 450 mm

4.0" / 100.9 mm

2.3" / 59.1 mm

1.3" / 32.1 mm

1.0" / 25 mm

23.2" / 590 mm

1.0" / 25 mm

0.3" / 7 mm

17.2" / 436 mm

0.3" / 7 mm

12.6" / 320 mm

11.5" / 292.5 mm

23.2" / 590 mm

2.2" / 55 mm

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

SPECIFICATIONS*

		LDAA012	LDAA025 (4K) LDAA025-1 (2K)	LAD033F
Pixel	Pitch (mm)	1.25	2.5	3.3
	LED Type	SMD	SMD	SMD
	Lifetime (Typical)	100,000 Hours	100,000 Hours	100,000 Hours
Cabinet	Modules (W × H, ea)	6 (2×3)	6 (2×3)	6 (2×3)
	Resolution (W × H, px)	512 × 360	256 × 180	192 x 270
	Material	Aluminum	Aluminum	Aluminum
	Main Cabinet Dimensions (W x H x D)	25.2 x 17.7 x 2.3 in 640 × 450 × 59 mm	25.2 x 17.7 x 2.3 in 640 × 450 × 59 mm	25.2 x 35.4 x 4.9 in 640 x 900 x 124 mm
	Main Cabinet Dimensions with Back Cover (W x H x D)	25.2 x 17.7 x 6.4 in 640 × 450 × 163 mm	25.2 x 17.7 x 6.4 in 640 × 450 × 163 mm	N/A
	Secondary Cabinet Dimensions (W x H x D)	25.2 x 17.7 x 2.3 in 640 × 450 × 59 mm	25.2 x 17.7 x 2.3 in 640 × 450 × 59 mm	N/A
	Secondary Cabinet Dimensions with Handle (W x H x D)	25.2 x 17.7 x 4.0 in 640 × 450 × 101 mm	25.2 x 17.7 x 4.0 in 640 × 450 × 101 mm	N/A
	Cabinet Weight	Main: 30.4 lbs. / 13.8 kg Secondary: 16.5 lbs. / 7.5 kg	Main: 30.4 lbs. / 13.8 kg Secondary: 16.5 lbs. / 7.5 kg	33.1 lbs. / 15 kg
	Typical Power Consumption @ 48 nits	Main: 180 W Secondary:80 W	Main: 130 W Secondary: 40 W	Main: 90 W Secondary: 52 W
	Typical Power Consumption @ 300 nits	Main : 300 W Secondary : 200 W	Main: 200 W Secondary: 80 W	N/A
	Service Access	Rear Only	Rear Only	Rear Only
Set	Pixels (W × H, Native)	4,096 × 2,160	4,096 × 2,160 (LDAA025) 2,048 x 1,080 (LDAA025-1)	N/A
	Resolution (W × H, Active Area)	4,096 × 2,160	4,096 × 2,160 (LDAA025) 2,048 x 1,080 (LDAA025-1)	N/A
	Pixel Density	640,000	160,000 pixels/m²	90,000 pixels/m2
	Cabinets (W × H)	48 (8 × 6)	192 (16 × 12) for LDAA025 48 (8 x 6) for LDAA025-1	N/A
	Screen Dimensions (W x H)	5,120 × 2,700 (14 sqm)	LDAA025 33.5 ft. x 17.7 ft (596 sqft) 10.2 m x 5.4 m (55 sqm) LDAA025-1 16.7 ft x 8.9 ft (148 sqft) 5.1 m x 2.7 m (14 sqm)	46.2 ft x 23.6 ft (1,090 sqft) 14.1 m x 7.2 m (101 sqm)
	Screen Weight	1,025 lbs. / 465 kg	4,072 lbs. / 1,847 kg for LDAA025 1,025 lbs. / 465 kg for LDAA025-1	5,820 lbs. / 2,640 kg
	Power Supply	AC100-240 Vac, 50/60 Hz	100-240 Vac, 50/60 Hz	100-240 Vac, 50/60 Hz
	Power Type	Built-in Power	Built-in Power	Built-in Power
	Typical Power Consumption at 48 nits	3,940 W	7,770 W for LDAA025 2,010 W for LDAA025-1	9,260 W (Max.)
	Typical Power Consumption at 300 nits	9,700 W	15,480 W for LDAA025 3,960 W for LDAA025-1	N/A
	Operation Temperature	32°F to 104°F 0°C to 40°C	32°F to 104°F 0°C to 40°C	32°F to 104°F 0°C to 40°C
	Operation Humidity	10% to 80%	10% to 80%	10% to 80%
	Storage Temperature	-4°F to 140°F -20°C to 60°C	-4°F to 140°F -20°C to 60°C	-4°F to 140°F -20°C to 60°C
	Storage Humidity	5% to 85%	5% to 85%	5% to 85%
General	Frame (Video) Rate (Hz)	24, 25, 30, 48, 50, 60, 144 @ 3D	24, 25, 30, 48, 50, 60, 144 @ 3D	24, 25, 30, 48, 50, 60
	Refresh Rate (@ 24 Hz)	3,072 @ 24 Hz, 3,840 @ 60 Hz	3,072 @ 24 Hz, 3,840 @ 60 Hz	N/A
	Brightness (nit, w/Calibration)	48 (DCI) / 100 / 130 / 260 / 300	48 (DCI) / 100 / 130 / 260 / 300	48 (DCI)
	Contrast Ratio	≥4000:1	≥4000:1	≥4000:1
	Color Space (Gamut)	DCI P3	DCI P3	DCI P3
	Viewing Angle (H × V)	160 × 160	160 × 160	120 × 120
	Bit Rate (Greyscale Depth)	15 bit @ 24 / 48 / 50 Hz	15 bit @ 24 / 48 / 50 Hz	12 (DCI-compliant)
	Bit Rate (Color Processing / Color)	24 (72 / Total)	24 (72 / Total)	N/A
	Chromaticity Uniformity	White Uniformity: within ±0.015 x, ±0.015 y	White Uniformity: within ±0.015 x, ±0.015 y	White Uniformity: within ±0.015 x, ±0.015 y
	Color Temperature (White)	(x, y) = (0.314, 0.351) / DCI-P3 Theater	(x, y) = (0.314, 0.351) / DCI-P3 Theater	(x, y) = (0.314, 0.351) / DCI-P3 theater
	Certifications	DCI, CB, CE-LVD/EMC, FCC, ETL/UL, RoHS, REACH	DCI, CE-LVD/EMC, FCC, ETL/UL, RoHS, REACH	DCI, CB, CE-LVD/EMC, FCC, ETL/UL, RoHS, REACH
	Cinema Server Compatibility	Dolby IMS3-L	Dolby IMS3-L	Dolby * IMS3000
	Interface	RJ45, HDMI (x2), RS-232C	RJ45, HDMI (x2), RS-232C	RJ45

* N/A means either Not Applicable or Data Not Available at the time of print. Specifications are subject to change without notice. Please make sure to check the product manual for details about product usage.

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