

Diamonds Series

Ultra HD Indoor Fine Pixel Pitch LED Display



PRODUCT OVERVIEW

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The Diamonds Series is a self-developed, ultra-high-definition product designed for the fine-pitch LED display market. It is primarily used in various control fields, including security monitoring, command dispatch, video conferencing, XR, and broadcasting, to provide high-quality display applications.





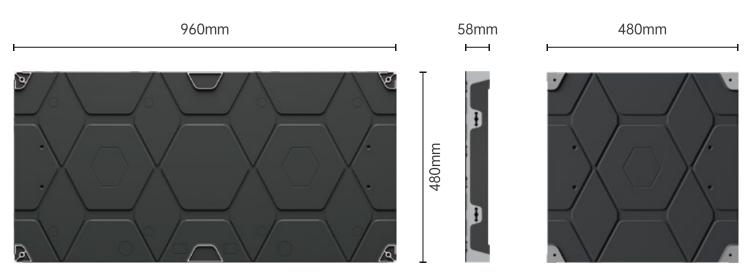






PRODUCT DISPLAY

960*480*58



PRODUCT FEATURES





GOB High Protection: Special treatment with GOB technology, enabling surface water- resistant, dust-resistant, impact-resistant and anti-static.



Full and Half Size: Customizable cabinet sizes are available to meet the specific needs of different application scenarios as per customer requirements.



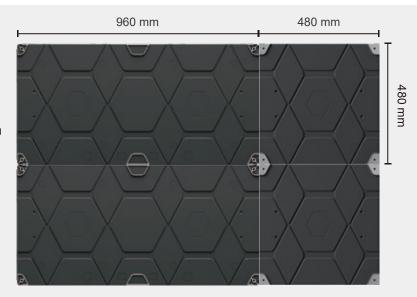






Easy Maintenance: Support full front maintenance, featuring hot-plug modules and cable-free connection.

Cabinet sizes of 960×480mm and 480×480mm are designed to be compatible, allowing for mixed splicing.



APPLICATIONS



Diamonds Series Specification দ

Pixel Pitch (mm)						
Cabinet Resolution (W+H) 768×384 608×304 512×256 384×192 320×160 Pixed Density (dots/m²) 640,000 401,084 284,444 160,000 111,111 Pixed Configuration SMD1010 SMD1015 SMD2121 SMD2121 Cabinet Size (mm)(W+H×D) 960×480×58, compatible with 480×480 unit cabinet Brightness (nits) 200-800 Gray Scale (bit) 10−16 Pixel Calibration Support brightness and color calibration Color Temp (K) 2000−12000 (Adjustable) Control System Synchronous control IP Level IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 5280 5270 5280 5440 Akp Power Consumption (W/m²) 5725 5680 5600 5520 Pixel Pixel Pixel (Rg) 10-6 10-6 Pixel Pixel (Rm) 10-6 10-6 Pixel Pixel (Rg) 10-6 10-6 Pixel Calibration (W+H) 384×384 304×304 265×266 192×192 Pixel Density (dots/m²) 640,000 401,084 284,444 160,000 Pixel Cabinet Sesolution (W+H) 384×384 304×304 265×266 192×192 Pixel Density (dots/m²) 640,000 401,084 284,444 160,000 Pixel Cabinet Sesolution (W+H) 10-16 10-16 Pixel Cabinet Sesolution (W+H) 10-16 10-16		94B12	94B15	94B18	94B25	94B30
Pixel Density (dots/m²) 640,000	Pixel Pitch (mm)	P1.25	P1.579	P1.875	P2.5	P3.0
Pixel Configuration SMD1010 SMD1010 SMD1515 SMD2121 SMD2121	` '	768×384	608×304	512×256	384×192	320×160
Cabinet Size (mm)(W×H×D) 960×480×58, compatible with 480×480 unit cabinet Brightness (nits) 200~800 Gray Scale (bit) 10~16 Pixel Calibration Support brightness and color calibration Color Temp (K) 2000~12000 (Adjustable) Control System Synchronous control IP Level IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 5840 Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (Wim²) \$725 \$680 \$600 \$520 \$440 Avg. Power Consumption (Wim²) \$290 \$270 \$240 \$200 \$170 Lifetime (H) 100.000 \$20~460 \$200 \$170 Lifetime (H) 100.000 \$20~460 \$200 \$170 Storage Temp (*C) 20~460 \$20 \$10 Operation Humidity (RH) 10.6 \$48D15 48D18 48D25 Pixel Pitch (mm) P1.25 P1.579 P1.875 P2.5 Cabinet Resolution (W×H) 384×384	Pixel Density (dots/m²)	640,000	401,084	284,444	160,000	111,111
Brightness (nits) 200-800	Pixel Configuration	SMD1010	SMD1010	SMD1515	SMD2121	SMD2121
Gray Scale (bit) 10-16	Cabinet Size (mm)(W×H×D)					
Pixel Calibration Support brightness and color calibration	Brightness (nits)	200~800				
Color Temp (K) 2000-12000 (Adjustable)	Gray Scale (bit)	10~16				
Control System Synchronous control IP Level IP41 IP44 IP44	Pixel Calibration	Support brightness and color calibration				
PLevel	Color Temp (K)	2000~12000 (Adjustable)				
Drive Mode	Control System					
Frame Rate (Hz) Refresh Rate (Hz) S3840 Working Voltage (V) Max. Power Consumption (W/m²) S725 S680 S680 S680 S600 S520 S440 Avg. Power Consumption (W/m²) S725 S680 S680 S600 S520 S440 S200 S170 Lifetime (H) 100,000 Operation Temp (°C) Storage Temp (°C) Operation Humidity (RH) Cabinet Weight (kg) Fixel Pitch (mm) P1.25 P1.579 P1.875 P2.5 Cabinet Resolution (W×H) S384×384 S304×304 S26×256 SMD1010 SMD1010/1212 SMD155 SMD2121 Cabinet Size (mm)(W×H×D) Brightness (nits) Gray Scale (bit) Pixel Calibration Color Temp (K) Control System Frame Rate (Hz) Solvido Frame Rate (Hz) Solvido Frame Rate (Hz) Solvido F725 S680 S600 S600 S600 S620 Avg. Power Consumption (W/m²) S725 S680 S600 S600 S620 Avg. Power Consumption (W/m²) S725 S680 S600 S600 S620 Avg. Power Consumption (W/m²) S725 S680 S600 S620 Avg. Power Consumption (W/m²) S200 S020 S220 S220 S220 S220 S220 S22	IP Level	· · · · · · · · · · · · · · · · · · ·				
Refresh Rate (Hz)	Drive Mode	Constant current drive (Compatible)				
Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 ≤440 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200 ≤170 Lifetime (H) 100,000 100,000 100,000 100,000 100,000 Operation Temp (°C) -10~440 -20~+60 100,000	Frame Rate (Hz)	· · · · · · · · · · · · · · · · · · ·				
Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 ≤440 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200 ≤170 Lifetime (H) 100,000 <10-+40	Refresh Rate (Hz)	≤3840				
Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200 ≤170 Lifetime (H) 100,000	Working Voltage (V)	AC: 100V~240V, 50~60Hz				
Lifetime (H) 100,000 Operation Temp (*C) -10~+40 Storage Temp (*C) -20~+60 Operation Humidity (RH) 10%~80%, no condensation Cabinet Weight (kg) 10.6 48D12 48D15 48D18 48D25 Pixel Pitch (mm) P1.25 P1.579 P1.875 P2.5 Cabinet Resolution (W×H) 384×384 304×304 256×256 192×192 Pixel Density (dots/m²) 640,000 401,084 284,444 160,000 Pixel Configuration SMD1010 SMD1010/1212 SMD1515 SMD2121 Cabinet Size (mm)(W×H×D) 480×480×58 Brightness (nits) 200~800 Gray Scale (bit) 10~16 Pixel Calibration Support brightness and color calibration Color Temp (K) 2000~12000 (Adjustable) Control System Synchronous control IP Level IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 50/60 Refresh Rate (Hz) ≤3840 Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	Max. Power Consumption (W/m²)	≤725	≤680	≤600	≤520	≤440
Operation Temp (°C) -10~+40 Storage Temp (°C) -20~+60 Operation Humidity (RH) 10%~80%, no condensation Cabinet Weight (kg) 10.6 48D12 48D15 48D18 48D25 Pixel Pitch (mm) P1.25 P1.579 P1.875 P2.5 Cabinet Resolution (W×H) 384×384 304×304 256×256 192×192 Pixel Density (dots/m²) 640,000 401,084 284,444 160,000 Pixel Configuration SMD1010 SMD1010/1212 SMD1515 SMD2121 Cabinet Size (mm)(W×H×D) 480×480×58 SMD2121 SMD2121 Cabinet Size (mil)(W×H×D) 480×480×58 SMD2121 SMD2121 Gray Scale (bit) 10~16 Support brightness and color calibration Support brightness and color calibration Color Temp (K) 200~800 Synchronous control IP Level IP41 IP41 The price Calibration Synchronous control IP41 The price Calibration Synchronous control Frame Rate (Hz) 53840 Synchronous control AC: 100V~240V, 50~60Hz	Avg. Power Consumption (W/m²)	≤290	≤270	≤240	≤200	≤170
Storage Temp (*C)	Lifetime (H)	100,000				
Operation Humidity (RH) 10%~80%, no condensation Cabinet Weight (kg) 10.6 48D12 48D15 48D18 48D25 Pixel Pitch (mm) P1.25 P1.579 P1.875 P2.5 Cabinet Resolution (W×H) 384×384 304×304 256×256 192×192 Pixel Density (dots/m²) 640,000 401,084 284,444 160,000 Pixel Configuration SMD1010 SMD1010/1212 SMD1515 SMD2121 Cabinet Size (mm)(W×H×D) 480×480×58 B01515 SMD2121 Gray Scale (bit) 10~16 200~800 Gray Scale (bit) 10~16 200~800 Gray Scale (bit) 10~16 2000~12000 (Adjustable) Color Temp (K) 2000~12000 (Adjustable) Synchronous control IP Level IP41 IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 50/60 Refresh Rate (Hz) 4804 4804 4804 Morking Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²)	Operation Temp (°C)	-10~+40				
ABD12	Storage Temp (°C)	-20~+60				
A8D12 A8D15 A8D18 A8D25	Operation Humidity (RH)	10%~80%, no condensation				
Pixel Pitch (mm) P1.25 P1.579 P1.875 P2.5 Cabinet Resolution (W×H) 384×384 304×304 256×256 192×192 Pixel Density (dots/m²) 640,000 401,084 284,444 160,000 Pixel Configuration SMD1010 SMD1010/1212 SMD1515 SMD2121 Cabinet Size (mm)(W×H×D) 480×480×58 SMD1515 SMD2121 Brightness (nits) 200~800 300 SMD1515 SMD2121 Gray Scale (bit) 10~16 300 SMD2121 SM	Cabinet Weight (kg)	10.6				
Cabinet Resolution (W×H) 384×384 304×304 256×256 192×192 Pixel Density (dots/m²) 640,000 401,084 284,444 160,000 Pixel Configuration SMD1010 SMD1010/1212 SMD1515 SMD2121 Cabinet Size (mm)(W×H×D) 480×480×58 SMD2121 Brightness (nits) 200~800 SMD2121 SMD2121 Gray Scale (bit) 10~16 Support brightness and color calibration Support brightness and color calibration Color Temp (K) 2000~12000 (Adjustable) Control System Synchronous control IP41 IP41 IP41 IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 50/60 \$3840 S6060 \$520 \$520 \$400 \$520		48D12	48D1	48D15 48D18		48D25
Pixel Density (dots/m²) 640,000 401,084 284,444 160,000 Pixel Configuration SMD1010 SMD1010/1212 SMD1515 SMD2121 Cabinet Size (mm)(W×H×D) 480×480×58 SMD2121 Brightness (nits) 200~800 SMD2121 Gray Scale (bit) 10~16 SMD2121 Pixel Calibration Support brightness and color calibration Support brightness and color calibration Color Temp (K) 2000~12000 (Adjustable) Support brightness and color calibration Control System Synchronous control IP Level IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 50/60 S3840 Working Voltage (V) AC: 100V~240V, 50~60Hz AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	Pixel Pitch (mm)	P1.25	P1.57	9	P1.875	P2.5
Pixel Configuration SMD1010 SMD1010/1212 SMD1515 SMD2121 Cabinet Size (mm)(W×H×D) 480×480×58 Brightness (nits) 200~800 Gray Scale (bit) 10~16 Pixel Calibration Support brightness and color calibration Color Temp (K) 2000~12000 (Adjustable) Control System Synchronous control IP Level IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 50/60 Refresh Rate (Hz) ≤3840 Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	Cabinet Resolution (W×H)	384×384	304×30)4	256×256	192×192
Cabinet Size (mm)(W×H×D) 480×480×58 Brightness (nits) 200~800 Gray Scale (bit) 10~16 Pixel Calibration Support brightness and color calibration Color Temp (K) 2000~12000 (Adjustable) Control System Synchronous control IP Level IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) ≤3840 Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	Pixel Density (dots/m²)	640,000	401,08	34	284,444	160,000
Brightness (nits) 200~800 Gray Scale (bit) 10~16 Pixel Calibration Support brightness and color calibration Color Temp (K) 2000~12000 (Adjustable) Control System Synchronous control IP Level IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 50/60 Refresh Rate (Hz) ≤3840 Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200		SMD1010	SMD1010	/1212	SMD1515	SMD2121
Gray Scale (bit) 10~16 Pixel Calibration Support brightness and color calibration Color Temp (K) 2000~12000 (Adjustable) Control System Synchronous control IP Level IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 50/60 Refresh Rate (Hz) ≤3840 Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	Cabinet Size (mm)(W×H×D)	480×480×58				
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Color Temp (K) 2000~12000 (Adjustable) Control System Synchronous control IP Level IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 50/60 Refresh Rate (Hz) ≤3840 Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200		10~16				
Color Temp (K) 2000~12000 (Adjustable) Control System Synchronous control IP Level IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 50/60 Refresh Rate (Hz) ≤3840 Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	, , ,	Support brightness and color calibration				
IP Level IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 50/60 Refresh Rate (Hz) ≤3840 Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	Color Temp (K)	2000~12000 (Adjustable)				
IP Level IP41 Drive Mode Constant current drive (Compatible) Frame Rate (Hz) 50/60 Refresh Rate (Hz) ≤3840 Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	Control System	Synchronous control				
Frame Rate (Hz) Refresh Rate (Hz) ≤3840 Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	-	IP41				
Refresh Rate (Hz) ≤3840 Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	Drive Mode	Constant current drive (Compatible)				
Working Voltage (V) AC: 100V~240V, 50~60Hz Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	Frame Rate (Hz)	50/60				
Max. Power Consumption (W/m²) ≤725 ≤680 ≤600 ≤520 Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	Refresh Rate (Hz)	≤3840				
Avg. Power Consumption (W/m²) ≤290 ≤270 ≤240 ≤200	Working Voltage (V)	AC: 100V~240V, 50~60Hz				
	Max. Power Consumption (W/m²)	≤725	≤680		≤600	≤520
Lifetime (H) 100,000	Avg. Power Consumption (W/m²)	≤290	≤270		≤240	≤200
	Lifetime (H)			100,000	'	

The parameter index will change according to the specific situation of the project (the product shall be subjected to the submitted contract specification)

-10~+40

-20~+60 10%~80%, no condensation

LEDERA TECHNOLOGY CO.,LTD

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Operation Temp (°C)
Storage Temp (°C)

Operation Humidity (RH)
Cabinet Weight (kg)

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