

Diamond Vision® LEDEBOARD® AVL-IDT3

Display Specifications

Display Device	Light Emitting Diode 3-in-1 Surface Mount Type (Black Package LED)
Dot Arrangement and Layout of Color Pixel	
Brightness	1,500 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	111,111 m ²
Pixel Pitch	3 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	960 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	16 bit
Grayscale	10 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 3 feet (1m)
Horizontal Viewing Angle	+75° ~ - 75° (150°)
Vertical Viewing Angle	+60° ~ - 60° (120°)
Average Power Consumption	0.95 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	1.70 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Rear

Revised 8/01/09 - Specifications subject to change without notice

Diamond Vision® LEDEBOARD® AVL-IDT4

Display Specifications

Display Device	Light Emitting Diode 3-in-1 Surface Mount Type (Black Package LED)
Dot Arrangement and Layout of Color Pixel	
Brightness	1,500 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	62,500 m ²
Pixel Pitch	4 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	480 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 3 feet (1m)
Horizontal Viewing Angle	+75° ~ - 75° (150°)
Vertical Viewing Angle	+60° ~ - 60° (120°)
Average Power Consumption	0.92 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	1.50 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

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Diamond Vision® LEDERBOARD® AVL-IDT6

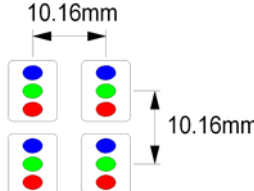
Display Specifications

Display Device	Light Emitting Diode 3-in-1 Surface Mount Type (Black Package LED)
Dot Arrangement and Layout of Color Pixel	
Brightness	2,000 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	27,776 m ²
Pixel Pitch	6 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	960 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 6 feet (2m)
Horizontal Viewing Angle	+75° ~ - 75° (150°)
Vertical Viewing Angle	+75° ~ - 75° (150°)
Average Power Consumption	0.51 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	0.80 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

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Diamond Vision® LEDEBOARD® AVL-IDT10

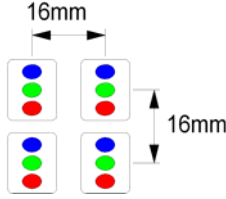
Display Specifications

Display Device	Light Emitting Diode 3-in-1 Surface Mount Type
Dot Arrangement and Layout of Color Pixel	 <p>The diagram illustrates the dot arrangement and layout of a color pixel. It shows a 2x2 grid of pixels. Each pixel is a square containing three sub-pixels: Red (bottom), Green (middle), and Blue (top). The horizontal distance between the centers of two adjacent pixels is 10.16mm, and the vertical distance is also 10.16mm.</p>
Brightness	1,500 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	9,687 m ²
Pixel Pitch	10.16 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	960 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 6 feet (2m)
Horizontal Viewing Angle	+80° ~ - 80° (160°)
Vertical Viewing Angle	+80° ~ - 80° (160°)
Average Power Consumption	0.42 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	0.72 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

Revised 8/01/09 - Specifications subject to change without notice

Diamond Vision® LEDEBOARD® AVL-IDT16

Display Specifications

Display Device	Light Emitting Diode 3-in-1 Surface Mount Type
Dot Arrangement and Layout of Color Pixel	 <p>The diagram illustrates a 2x2 grid of color pixels. Each pixel is represented by a small square containing three colored dots: Red, Green, and Blue. The horizontal distance between the centers of two adjacent pixels in a row is labeled as 16mm. Similarly, the vertical distance between the centers of two adjacent pixels in a column is also labeled as 16mm.</p>
Brightness	1,500 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	3,906 m ²
Pixel Pitch	16 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	960 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 6 feet (2m)
Horizontal Viewing Angle	+60° ~ - 60° (160°)
Vertical Viewing Angle	+75° ~ - 75° (150°)
Average Power Consumption	0.55 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	0.85 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

Revised 10/20/09 - Specifications subject to change without notice

Diamond Vision® LEDEBOARD® AVL-IDT20

Display Specifications

Display Device	Light Emitting Diode 3-in-1 Surface Mount Type
Dot Arrangement and Layout of Color Pixel	
Brightness	1,500 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	2,422 m ²
Pixel Pitch	20.32 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	960 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 12 feet (4m)
Horizontal Viewing Angle	+75° ~ - 75° (150°)
Vertical Viewing Angle	+60° ~ - 60° (120°)
Average Power Consumption	0.35 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	0.60 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

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Diamond Vision® LEDERBOARD® AVL-IDQ5

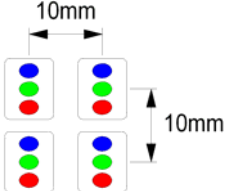
Display Specifications

Display Device	Light Emitting Diode Discreet Surface Mount Type
Dot Arrangement and Layout of Color Pixel	
Brightness	1,500 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	40,000 m ²
Visual Resolution	5.08 mm
Physical Resolution	10.16 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	960 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 12 feet (4m)
Horizontal Viewing Angle	+80° ~ - 80° (160°)
Vertical Viewing Angle	+80° ~ - 80° (160°)
Average Power Consumption	0.65 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	1.15 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

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Diamond Vision® LEDERBOARD® AVL-ODT10

Display Specifications

Display Device	Light Emitting Diode 3-in-1 Surface Mount Type
Dot Arrangement and Layout of Color Pixel	 <p>The diagram illustrates the dot arrangement and layout of a color pixel. It shows a 2x2 grid of pixels. Each pixel is represented by a small square containing three colored dots: Red, Green, and Blue. The horizontal distance between the centers of two adjacent pixels is labeled as 10mm. The vertical distance between the centers of two adjacent pixels is also labeled as 10mm.</p>
Brightness	5,000 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	10,000 m ²
Pixel Pitch	10 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	480/960 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 6 feet (2m)
Horizontal Viewing Angle	+60° ~ - 60° (120°)
Vertical Viewing Angle	+15° ~ - 30° (45°)
Average Power Consumption	0.62 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	1.00 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

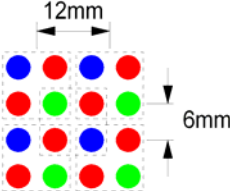
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Diamond Vision® LEADERBOARD® AVL-ODT16

Display Specifications	
Display Device	Light Emitting Diode 3-in-1 Surface Mount Type
Dot Arrangement and Layout of Color Pixel	
Brightness	5,000 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	3,906 m ²
Pixel Pitch	16 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	960 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 10 feet (3m)
Horizontal Viewing Angle	+60° ~ - 60° (120°)
Vertical Viewing Angle	+15° ~ - 30° (45°)
Average Power Consumption	0.66 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	1.15 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

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Diamond Vision® LEDEBOARD® AVL-ODQ6

Display Specifications	
Display Device	Light Emitting Diode Discreet Lamp Type
Dot Arrangement and Layout of Color Pixel	
Brightness	5,000 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	27,778 m ²
Visual Resolution	6.0 mm
Physical Resolution	12 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	960 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 15 feet (5m)
Horizontal Viewing Angle	+60° ~ - 60° (120°)
Vertical Viewing Angle	+15° ~ - 30° (45°)
Average Power Consumption	0.46 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	0.80 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Rear

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Diamond Vision® LEDEBOARD® AVL-ODQ8

Display Specifications	
Display Device	Light Emitting Diode Discreet Lamp Type
Dot Arrangement and Layout of Color Pixel	
Brightness	5,000 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	15,625 m ²
Visual Resolution	8 mm
Physical Resolution	16 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo,& 5 custom
Screen Refresh Rate	960 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 18 feet (6m)
Horizontal Viewing Angle	+60° ~ - 60° (120°)
Vertical Viewing Angle	+15° ~ - 30° (45°)
Average Power Consumption	0.54 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	0.85 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

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Diamond Vision® LEDEBOARD® AVL-ODQ10

Display Specifications	
Display Device	Light Emitting Diode Discreet Lamp Type
Dot Arrangement and Layout of Color Pixel	
Brightness	5,000 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	10,000 m ²
Visual Resolution	10 mm
Physical Resolution	20 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	480 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 24 feet (8m)
Horizontal Viewing Angle	+70° ~ - 70° (140°)
Vertical Viewing Angle	+15° ~ - 30° (45°)
Average Power Consumption	0.40 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	0.70 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

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Diamond Vision® LEADERBOARD® AVL-ODQ12

Display Specifications	
Display Device	Light Emitting Diode Discreet Lamp Type
Dot Arrangement and Layout of Color Pixel	
Brightness	5,000 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	6,400 m ²
Visual Resolution	12.5 mm
Physical Resolution	25 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	480 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 33 feet (10m)
Horizontal Viewing Angle	+70° ~ - 70° (140°)
Vertical Viewing Angle	+15° ~ - 30° (45°)
Average Power Consumption	0.40 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	0.65 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

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Diamond Vision® LEDEBOARD® AVL-ODQ15

Display Specifications	
Display Device	Light Emitting Diode Discreet Lamp Type
Dot Arrangement and Layout of Color Pixel	
Brightness	5,000 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	4,444 m ²
Visual Resolution	15 mm
Physical Resolution	30 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	480 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 39 feet (12m)
Horizontal Viewing Angle	+70° ~ - 70° (140°)
Vertical Viewing Angle	+15° ~ - 30° (45°)
Average Power Consumption	0.47 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	0.79 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

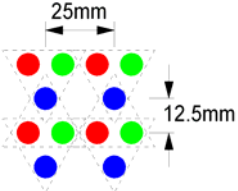
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Diamond Vision® LEADERBOARD® AVL-ODD22

Display Specifications	
Display Device	Light Emitting Diode Discreet Lamp Type
Dot Arrangement and Layout of Color Pixel	
Brightness	5,000 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	2,066 m ²
Visual Resolution	17.9 mm
Physical Resolution	22 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo,& 5 custom
Screen Refresh Rate	480 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 28 feet (9m)
Horizontal Viewing Angle	+60° ~ - 60° (120°)
Vertical Viewing Angle	+15° ~ - 30° (45°)
Average Power Consumption	0.30 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	0.47 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

Revised 8/01/09 - Specifications subject to change without notice
 Visual Resolution is option when configured and operating in Dynamic Pixel mode

Diamond Vision® LEDERBOARD® AVL-ODD25

Display Specifications	
Display Device	Light Emitting Diode Discreet Lamp Type
Dot Arrangement and Layout of Color Pixel	
Brightness	5,000 cd/m ² (nit)
Duration to 50% Brightness	50,000 hours
LED Density	1,600 m ²
Visual Resolution	20.4 mm
Physical Resolution	25 mm
Color Temperature	User Selectable 9300°K, 6500°K, 5600°K, 4500°K, 3500°K, Photo, & 5 custom
Screen Refresh Rate	480 Hz
Brightness Intensity Level	64 steps
Brightness Adjustment Method	Manual or Automatic (Option)
Color Processing	18 bit (4.4 Trillion Colors)
Grayscale	12 bit
Scanning System	Progressive and Interpolation
Minimum Viewing Distance	> 33 feet (10m)
Horizontal Viewing Angle	+70° ~ - 70° (140°)
Vertical Viewing Angle	+15° ~ - 30° (45°)
Average Power Consumption	0.41 kW / m ²
Power Source	200 ~ 240VAC, 3 Ø, 3 Wire + Ground
Power Supply	0.66 kVA / m ²
Ambient Temperature	0 ~ 40° C
Service Access	Front or Rear

Revised 8/01/09 - Specifications subject to change without notice
 Visual Resolution is option when configured and operating in Dynamic Pixel mode