



# Planar DirectLight DL3.1

## LED Video Wall System

The Planar® DirectLight® LED Video Wall System is a family of seamless, ultra-fine pitch direct view LED video walls that provide a superior visual experience, and 24x7 reliability tailored to your unique indoor environment.

Planar DirectLight LED video walls incorporate design principles gained from decades of successful video wall installations and is ideal for the most demanding control room and digital signage applications, providing a uniform and seamless canvas of nearly any size or shape.



| SPECIFICATION                                 | DETAIL                                   |
|---|--|
| Product Name                                  | DL3.1                                    |
| Planar Part Number                            | 997-8122-00                              |
| Pixel Pitch                                   | 3.13mm                                   |
| Resolution (per LED Display Module)           | 128x96                                   |
| Pixel Density (Pixels per LED Display Module) | 12,288                                   |
| Pixel Density                                 | 9,513 per sq. foot/102,400 per sq. meter |
| Gap Between LED Display Modules               | Seamless                                 |
| Bezel Width                                   | None                                     |
| LED Type                                      | Commercial Grade 3-in-1 Black SMD        |
| Pixel Configuration                           | SMD 3-in-1 (1R1G1B)                      |
| LED Configuration                             | 1 Red, 1 Green, 1 Blue                   |
| LED Surround                                  | Planar® MicroGrid Shader™, Black         |
| Brightness, Uncalibrated, Calibrated          | 1,200, 900, adjustable                   |
| Brightness, Uniformity                        | 97%                                      |
| Software Brightness Control                   | 100 steps                                |
| Viewing Angle, Horizontal                     | +/-80° (90% brightness)                  |
| Viewing Angle, Vertical                       | +80°/-75° (80% brightness)               |
| Color Space                                   | 97% NTSC                                 |
| Color Uniformity                              | 97%                                      |

|  |   |
|--|---|
| <b>Colors</b>  | 16.7 million  |
| <b>Color Temperature, Adjustable (k)</b>   | 3,200-9,300, adjustable   |
| <b>Color Processing</b>  | 16 bits   |
| <b>Contrast Ratio</b>  | 5,000:1, adjustable   |
| <b>Frame Rate</b>  | 50, 60 Hz   |
| <b>LED Refresh Rate</b>  | 3,500 Hz  |
| <b>Power Consumption, Maximum (watts)</b>  | 90 per sq. foot/967 per sq. meter   |
| <b>Power Consumption, Typical (watts)</b>  | 19 per sq. foot/205 per sq. meter (Typical video content and indoor brightness) |
| <b>Runtime Duty Cycle</b>  | 24x7  |
| <b>Lifetime: Typical</b>   | 100,000 hours to half brightness  |
| <b>Acoustic noise</b>  | Fanless Operation   |
| <b>Operating Temperature/Humidity (degrees F/C, relative humidity)</b>                       | 14 to 104/-10 to +40, 10-80%  |
| <b>Storage Temperature/Humidity (degrees F/C, relative humidity)</b>                         | -4 to 140/-20 to +60, 10-85%  |
| <b>LED Display Module Size (W x H x D)</b>   | 15.7" x 11.8" x 2.63" (400 mm x 300 mm x 66.8 mm)                               |
| <b>LED Display Module Diagonal</b>   | 19.7" (500 mm)  |
| <b>LED Display Module area</b>   | 1.3 sq. feet (0.12 sq. meters)  |
| <b>Total Install Depth Including EasyAlign Mounting System</b>                               | 3.5" (89 mm) minimum, 4" (102 mm) maximum                                       |
| <b>LED Display Module Weight</b>   | 11.5 lb (5.2 kg)  |
| <b>Total Install Weight</b>  | 15.8 lbs/7.1 kg (LED Display Module and EasyAlign Mount)                        |
| <b>Maximum Installed Height</b>  | Unlimited (LED Display Modules)   |
| <b>Maximum Installed Width</b>   | Unlimited (LED Display Modules)   |
| <b>Warranty</b>  | 3 year Advance Exchange with 24x7 customer support. Extendable to 5 years.      |
| <b>Professional Services</b>   | Design, Configuration, Install and Service available                            |
| <b>Adjustable Mount</b>  | Planar® EasyAlign™ Mounting System included                                     |
| <b>Mount Configurations (LED Display Modules width x height (Total LED Display Modules))</b> | 2x3 (6), 4x1 (4), 1x3 (3), 1x1 (1)  |
| <b>Environment</b>   | Indoor  |
| <b>Application</b>   | Fixed   |

|   |  |
|---|--|
| <b>IP Rating</b>                                      | IP40   |
| <b>Installation, Service</b>                          | Front  |
| <b>LED Display Module Alignment Adjustment</b>        | 6-axis Integrated  |
| <b>Standard Mounting Configurations</b>               | Fixed, Wall  |
| <b>Optional Mounting Configurations</b>               | Floor, Hanging from Truss, Concave, Curved via third parties             |
| <b>Regulation Compliance</b>                          | NRTL, FCC Class A, CE Class A, WEEE, RCM, PSE, EN60950 and CISPER22/2010 |
| <b>Americans with Disability Act (ADA) Compliance</b> | Yes  |
| <b>Power Supply Type</b>                              | 1U Rack Mount Controller   |
| <b>Redundancy</b>                                     | n+1 Redundant Power Supplies (optional)                                  |
| <b>Line Voltage</b>                                   | 100-240 Volts AC, 50/60Hz auto switching                                 |
| <b>Power Status</b>                                   | Diagnostic LEDs  |
| <b>Maximum Distance from LED Display Module</b>       | 200 feet/60 meters (max backlight)                                       |
| <b>Video Input Type</b>                               | HDMI v1.4 with HDCP Compliance   |
| <b>Video Input Resolution Maximum</b>                 | 1920x1080 @ 50, 60 Hz  |
| <b>Video Signal Extension Options</b>                 | CAT6 (HDBaseT), Fiber Optic  |
| <b>Maximum Distance from LED Video Interface</b>      | HDBaseT 326 feet/100 meters, Multimode fiber 984 feet/300 meters         |
| <b>Video Signal Redundancy</b>                        | Optional   |
| <b>Video Extension Redundancy</b>                     | Optional   |
| <b>Display Control</b>                                | Planar® DirectLight™ Control Software included                           |
| <b>Control Input Type</b>                             | RS232 or Ethernet  |
| <b>UPC</b>  | 8 10689 00303 8  |

For more information, please visit [www.leyard.com](http://www.leyard.com)

*Specifications are subject to change without notice.*

*Specification Report Date: 7/24/2017*

*© Copyright 2017 Leyard All rights reserved*