

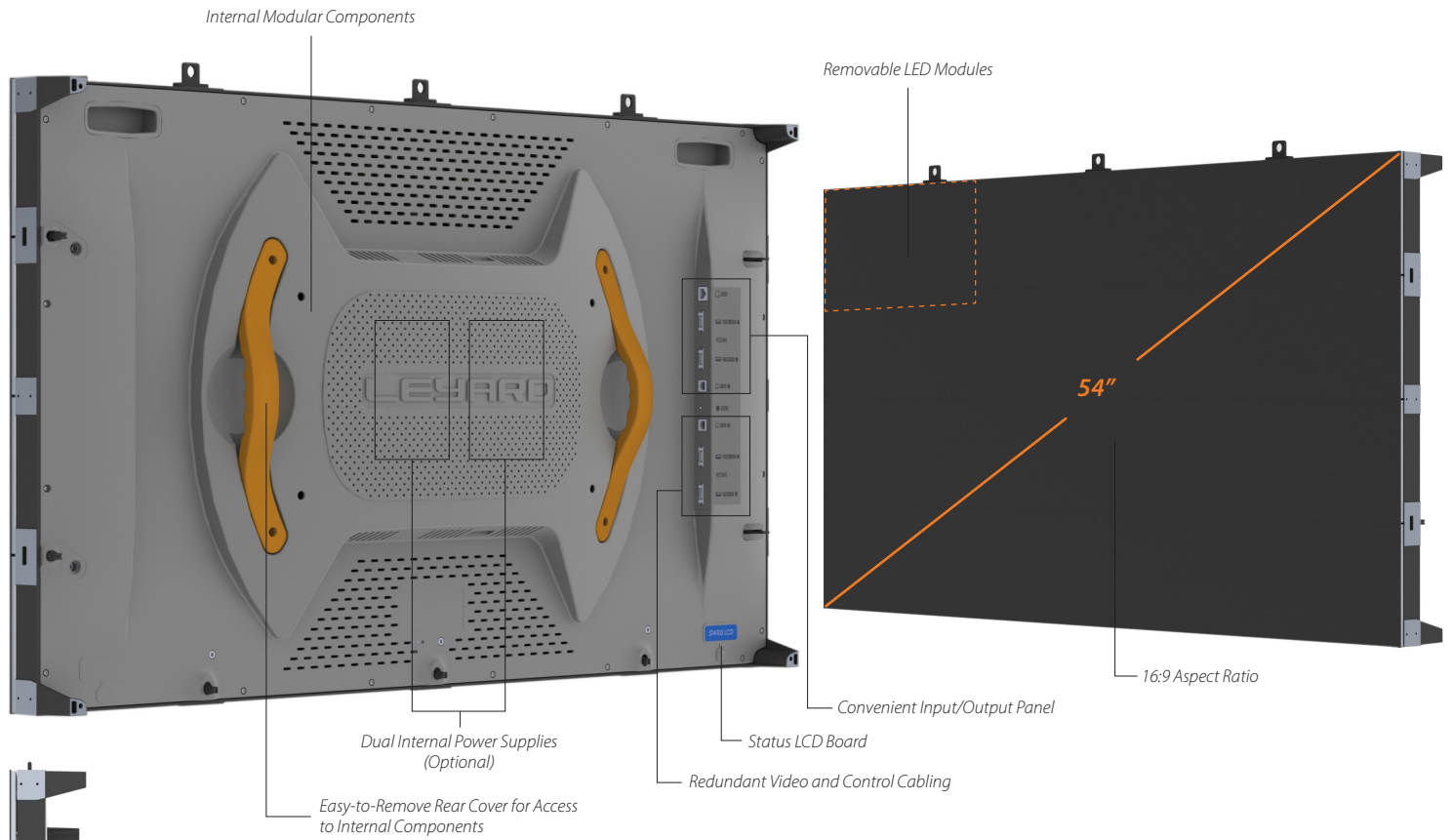


## Innovative Design Combines with Industry-Leading Power Efficiency

The Leyard® TWA Series is a line of fine pitch LED video walls available in 0.9, 1.2, 1.4 and 1.8 millimeter pitches. The Leyard TWA Series is architected to support the highest in pixel density and delivers benefits unique to its “flat panel” design including a 16:9 form factor optimized for the most popular high resolution standards, ease of installation and service, as well as outstanding flatness and uniformity. With a slim 54” cabinet, power-efficiency and the finest of pixel pitches, Leyard TWA Series LED video walls deliver the pixel density and form-factor to rival LCD and Rear Projection video walls, but with a truly seamless video wall configuration of any size.

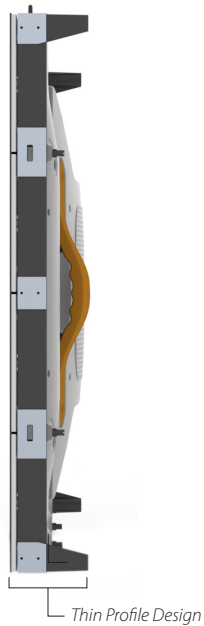
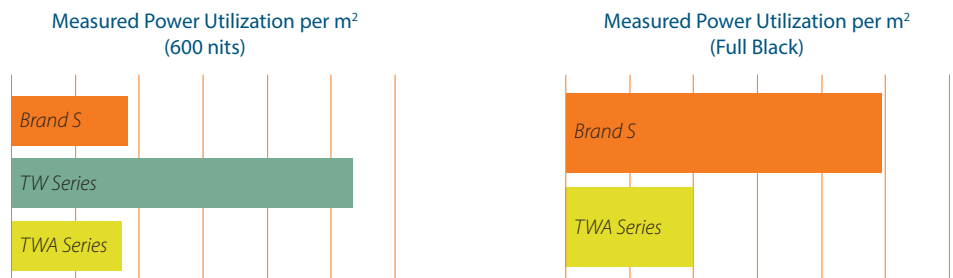
# Unique Architecture and Benefits by Design

The Leyard TWA Series was designed by LED video wall experts to address the challenges of LED video wall installations. Every Leyard TWA Series LED video wall display is designed for long-duty cycles, and is available with a redundant video and power option to ensure continuous operation for demanding applications. The larger 54" cabinet means more of the video wall is factory-aligned, easing installation time and costs with fewer displays to align and seams to perfect at installation. Larger displays also mean fewer cabinets are needed to create a video wall, reducing potential points-of-service. Redundancy options and modular internal components reduce downtime and speed serviceability.



## Industry-Leading Power Efficiency

The Leyard TWA Series delivers reduced power utilization by as much as 35% and compares favorably to the industry's low-power LED video walls. Multiple Leyard TWA Series cabinets can be powered by a single 15 or 20-amp circuit. Leyard TWA Series displays support a unique low power standby mode with black screen to consume significantly less power when the video wall is not in use.





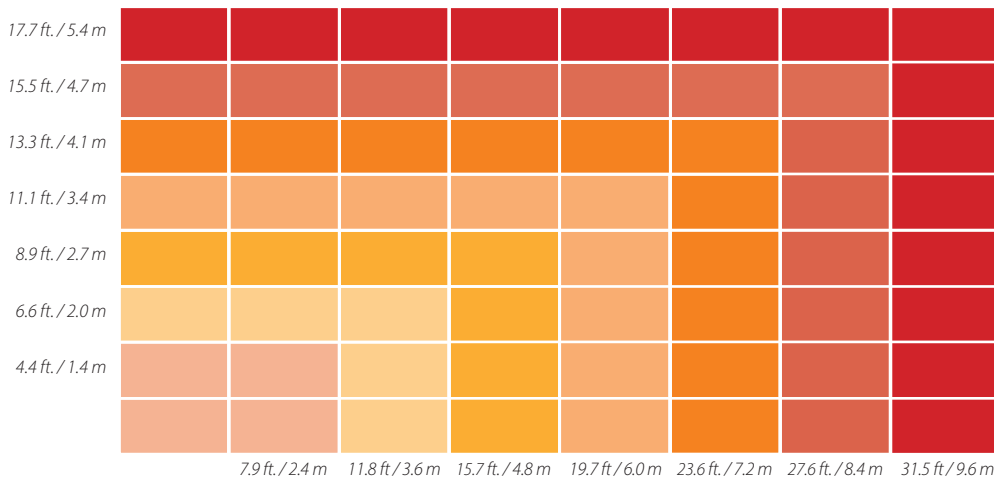
## Leading Image Quality

Leyard TWA Series LED video walls deliver a crisp, high contrast image using the highest quality black LEDs, black solder mask and Leyard® MicroGrid Shader™, enabling the deepest level of black. Wide viewing angles deliver excellent off-axis uniformity while advanced calibration provides maximum full color and brightness uniformity across even the largest video walls with no visible seams.

Leyard TWA Series displays ensure truly seamless images with its unique mechanical design and software. The Leyard TWA Series allows 20 points of alignment per display, ensuring perfect physical alignment. The Windows®-based Leyard® LED ToolBox Software allows for fine-grain image optimization.

With a 16:9 form factor and exact compatibility with the most widely-used resolutions, Leyard TWA Series video wall displays make content development and video wall processing easier out-of-the-box.

## 16:9 Aspect Ratio — 4K Optimized



Models	1 x 1	2 x 2	3 x 3	4 x 4	5 x 5	6 x 6	7 x 7	8 x 8
TWA0.9	1280 x 720	2560 x 1440	<b>3840 x 2160</b>	5120 x 2880	6400 x 3600	<b>7680 x 4320</b>	8960 x 5040	10240 x 5760
TWA1.2	960 x 540	<b>1920 x 1080</b>	2880 x 1620	<b>3840 x 2160</b>	4800 x 2700	5760 x 3240	6720 x 3780	<b>7680 x 4320</b>
TWA1.4	805 x 452	1610 x 904	2415 x 1356	3220 x 1808	4025 x 2260	4830 x 2712	5635 x 3164	6440 x 3616
TWA1.8	640 x 360	1280 x 720	<b>1920 x 1080</b>	2560 x 1440	3200 x 1800	<b>3840 x 2160</b>	4480 x 2520	5120 x 2880

**Full HD** 1920 x 1080

**4K** 3840 x 2160

**8K** 7680 x 4320

## Broad Compatibility

The Leyard TWA Series delivers broad compatibility with leading image processing and content management systems, including Planar and Leyard's Clarity® Visual Control Station™ (VCS™) Video Wall Processor. Clarity VCS is a flexible and easy-to-use video wall controller design to drive high resolution LED video walls.

The all-in-one hardware and software solution can be locally or remotely controlled, providing the ultimate in video wall processing for Leyard TWA Series video walls.

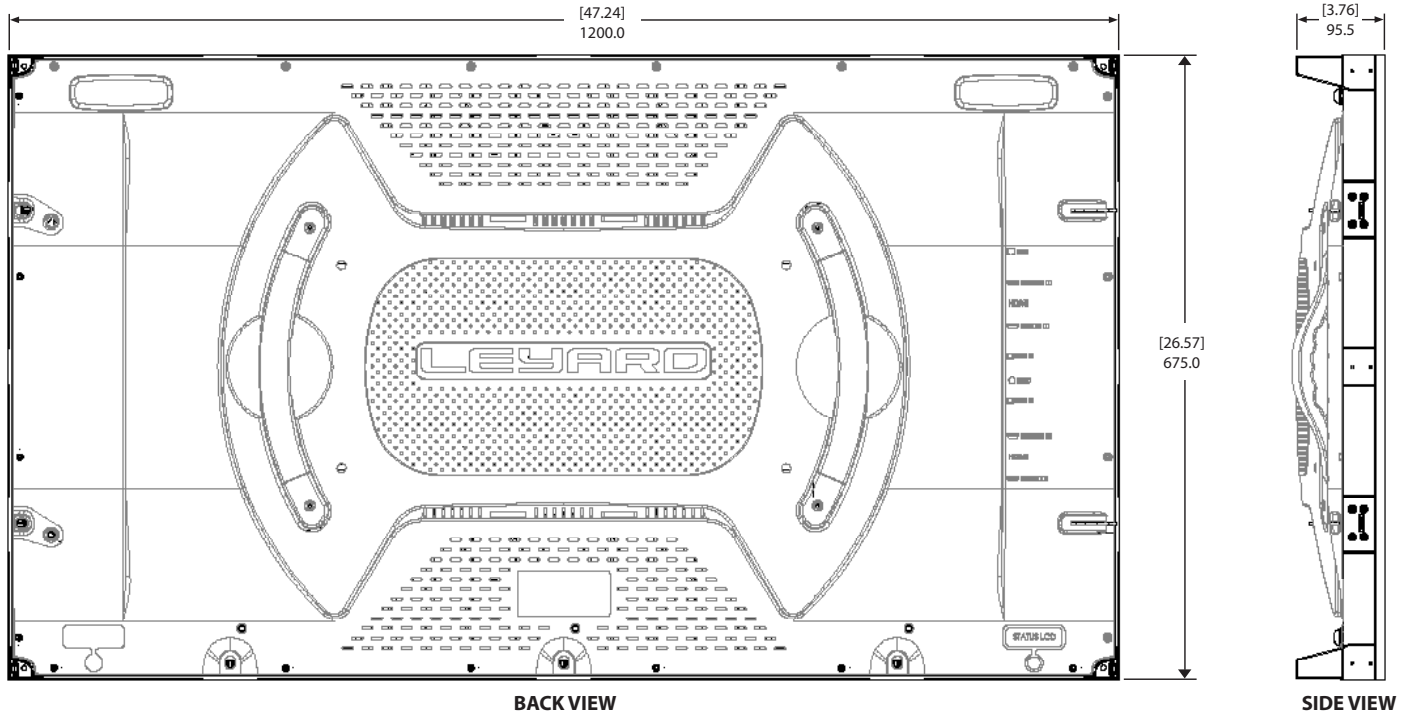


Clarity VCS Video Wall Processor combined with Leyard TWA Series LED video walls delivers a complete all-in-one solution.

## LEYARD TWA SERIES SPECIFICATIONS

Product Name	TWA0.9	TWA1.2	TWA1.4	TWA1.8
Pixel Pitch	0.9375mm	1.25mm	1.49mm	1.875mm
LED Type	Commercial grade 3-in-1 Black SMD			
Display Resolution	1280 x 720	960 x 540	805 x 452	640 x 360
Pixel Density / sq m	1,137,777 / sq m	640,000 / sq m	450,000 / sq m	284,444 / sq m
Brightness Max (cd / sq m)	600			
Color Gamut	100% NTSC			
Contrast Ratio	> 6,000:1			
LED Refresh Rate	1,920 Hz	3,000Hz		5,100Hz
Color Temperature, Adjustable (k)	3,200 - 9,300			
Viewing Angle, Horizontal	160°			
Viewing Angle, Vertical	140°			
Video Inputs	2x HDMI in, 2x HDMI out; HDCP Compliant			
Video Input Resolution Maximum	1920 x 1080 @ 60Hz			
Frame Rate	50, 60Hz			
Control Input Type	RS232 or Ethernet			
LED Lifetime: Typical	100,000 hrs			
Display Size (W x H x D)	1200 x 675 x 100mm   47.24 x 26.57 x 3.94in			
Display Weight (per display)	30 kg   66.1 lb			
Line Voltage	100-240V AC, 50/60Hz autoranging			
Power Consumption, Maximum (watts)	380 / Display   469 / sq m			
Power Consumption, Typical (watts)	90 / Display   111 sq m			
Power Supply	Single. Dual optional			
Acoustic Noise	Fanless Operation			
Operating Temperature/Humidity (degrees F/C) 10-80% relative humidity, non-condensing	-10° to 40° C   14° to 104° F			
Storage Temperature/Humidity (degrees F/C) 10-85% relative humidity, non-condensing	-20° to 60° C   -4° to 140° F			
Regulatory Compliance	NRTL, FCC Class A, CE Class A, WEEE, EN60950 and CISPR 22/2010			

Some Specifications are preliminary and can change



# LEYARD

Leyard and Planar are trademarks of Leyard Optoelectronics Co., Ltd. and Planar Systems, Inc. All other trademarks and service marks are the property of their holders.

[www.planar.com](http://www.planar.com) | [www.leyard.com](http://www.leyard.com)

Copyright © 2017 Leyard Optoelectronics Co., Ltd. and Planar Systems, Inc. All rights reserved. This document may not be copied in any form without permission from Leyard or Planar. Information in this document is subject to change without notice.  
5/17

**North America**  
1-866-475-2627  
[sales@leyardgroup.com](mailto:sales@leyardgroup.com)

**EMEA**  
+421-918-436-961  
[sales.emea@leyardgroup.com](mailto:sales.emea@leyardgroup.com)

**APAC**  
+86-755-29671180  
[info.asia@leyardgroup.com](mailto:info.asia@leyardgroup.com)

**Japan**  
+81-3-6915-2768  
[info.japan@leyardgroup.com](mailto:info.japan@leyardgroup.com)

**Latin America**  
+55-41-3059-5100  
[info.brazil@leyardgroup.com](mailto:info.brazil@leyardgroup.com)