LEYARD
PLANAR

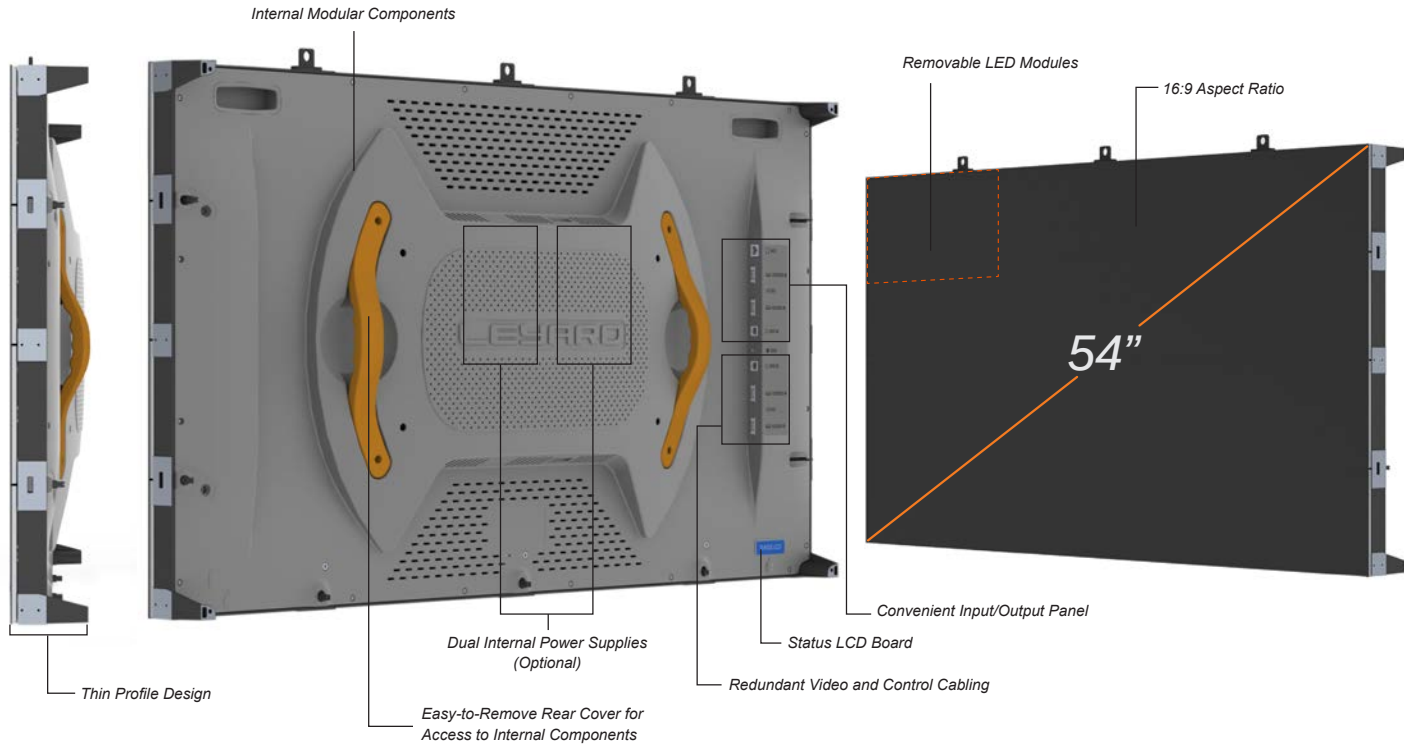
# Leyard TWA Series
LED Video Wall

## Innovative Design with Leading Power Efficiency

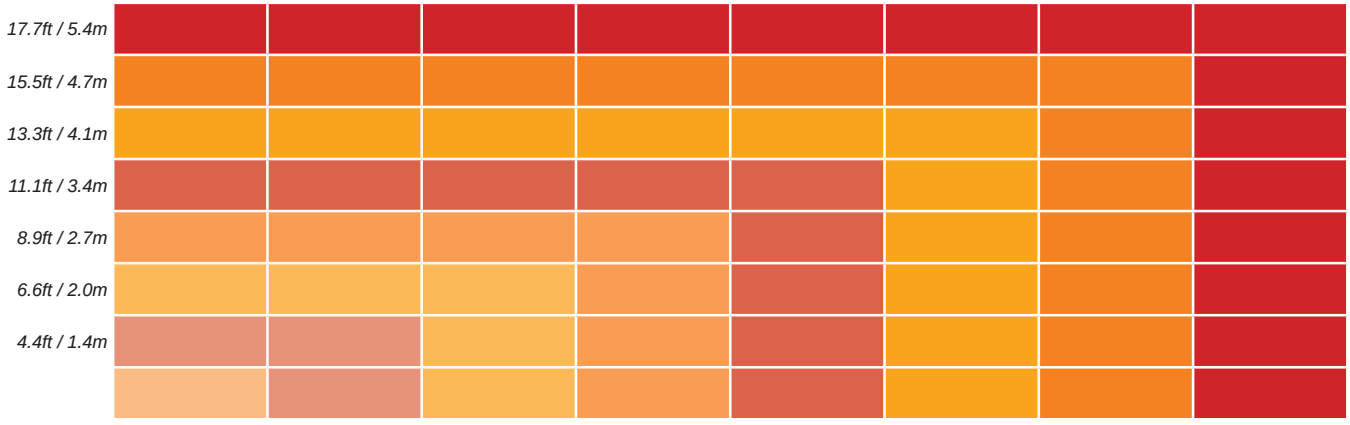
The Leyard® TWA Series is a line of fine pitch LED video walls available in 0.9, 1.2 and 1.8 millimeter pixel pitches. Architected to support the highest in pixel density, the Leyard TWA Series delivers benefits unique to its “flat panel” design including a 16:9 form factor optimized for the most popular 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 in 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.




# 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 |
|---|---|---|---|---|---|---|---|---|
| Leyard TWA0.9 | 1280 x 720 | 2560 x 1440 | **3840 x 2160** | 5120 x 2880 | 6400 x 3600 | **7680 x 4320** | 8960 x 5040 | 10240 x 5760 |
| Leyard TWA1.2 | 960 x 540 | **1920 x 1080** | 2880 x 1620 | **3840 x 2160** | 4800 x 2700 | 5760 x 3240 | 6720 x 3780 | **7680 x 4320** |
| Leyard TWA1.8 | 640 x 360 | 1280 x 720 | **1920 x 1080** | 2560 x 1440 | 3200 x 1800 | **3840 x 2160** | 4480 x 2520 | 5120 x 2880 |

Full HD 1920 x 1080 4K 3840 x 2160 8K 7680 x 4320

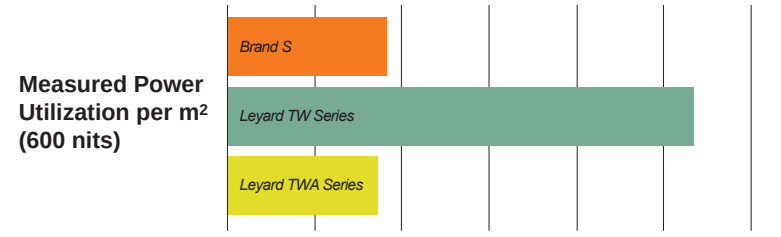

# Leading Image Quality

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 displays make content development and video wall processing easier out-of-the-box.

# 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-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.





# Broad Compatibility

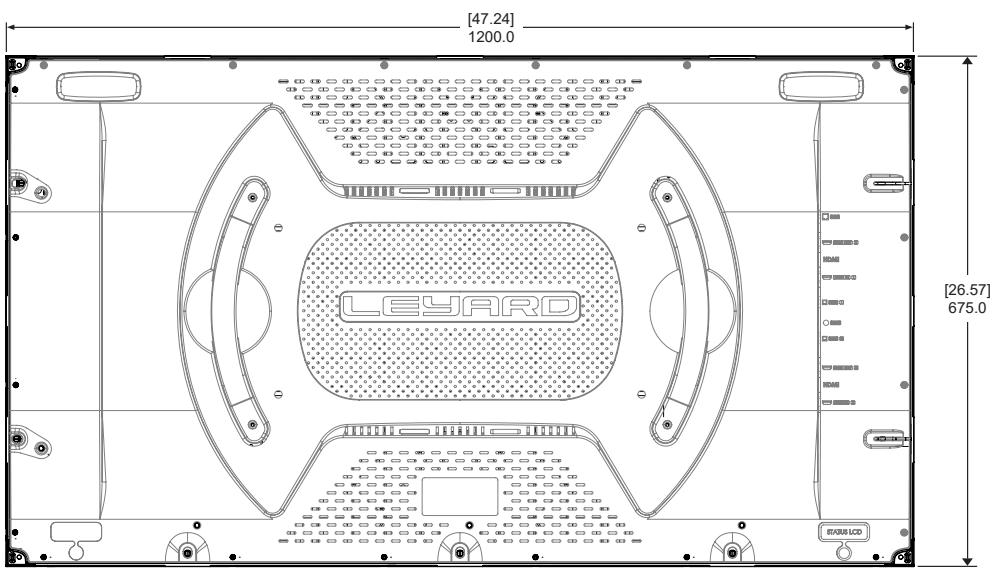
The Leyard TWA Series delivers broad compatibility with leading image processing and content management systems, including the Clarity® Visual Control Station™ (VCS™) Video Wall Processor. Clarity VCS is a flexible and easy-to-use video wall controller design to drive high resolution LED video walls.

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 LED video walls.

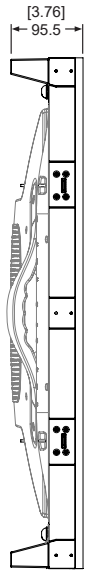
*Clarity VCS Video Wall Processor combined with Leyard TWA Series LED video walls delivers a complete all-in-one solution.*

# LEYARD TWA SERIES SPECIFICATIONS

| Model | TWA0.9 | TWA1.2 | TWA1.8 |
|---|---|---|---|
| **Pixel Pitch** | 0.9375mm | 1.25mm | 1.875mm |
| **Display Resolution** | 1280 x 720 | 960 x 540 | 640 x 360 |
| **Pixel Density** *(pixels)* | 1,137,777/sq m<br>105,703/sq ft | 640,000/sq m<br>59,458/sq ft | 284,444/sq m<br>26,422/sq ft |
| **LED type** | Commercial grade 3-in-1 Black SMD | | |
| **Brightness Max** *(cd/sq. m)* | 600 | 800 | 800 |
| **Color Gamut** | 100% NTSC | | |
| **Contrast Ratio** | >6000:1 | | |
| **LED Refresh Rate** | 1920Hz | 3000Hz | 5100Hz |
| **Color Temperature, adjustable** *(k)* | 3200 - 9300 | | |
| **Viewing Angle, Horizontal** | 160° | | |
| **Viewing Angle, Vertical** | 140° | | |
| **LED Lifetime: Typical** | 100000hrs | | |
| **Display Size** *(W x H x D)* | 1200 x 675 x 100mm \| 47.24 x 26.57 x 3.94in | | |
| **Display Weight** *(kg/display)* | 30kg \| 66.1lb | | |
| **Power Consumption, Max.** *(watts)* | 440/Display \| 543/sq m | | |
| **Power Consumption, Typ** *(watts)* | 132/Display \| 162/sq m | | |
| **Video Inputs** | 2x HDMI in, 2x HDMI out | | |
| **HDCP Compliant** | Yes | | |
| **Video Input Resolution Maximum** | 1920 x 1080 @ 60Hz | | |
| **Frame Rate** | 50, 60Hz | | |
| **Control Input Type** | RS232 or Ethernet | | |
| **Line Voltage** | 100-240V AC, 50/60Hz autoranging | | |
| **Power Supply** | Single. Dual optional | | |
| **Acoustic Noise** | Fanless Operation | | |
| **Operating Temperature**<br>*(degrees F/C) 10-80% relative humidity, non-condensing* | -10° to 40° C \| -14° to 104° F | | |
| **Storage Temperature**<br>*(degrees F/C) 10-85% relative humidity, non-condensing* | -20° to 60° C \| -4° to 140° F | | |
| **Regulatory Compliance** | NRTL UL 60950-1, FCC Class A, CE EN60950-1, EN 55032 Class A and EN55024, WEEE, CISPR 32/2015 | | |




BACK VIEW




SIDE VIEW


**www.leyardeurope.eu**

**Leyard Europe**
+421-907-775-941
sales.emea@leyardgroup.com