

dvLED vs. Projectors:

How much is your image costing you?

Today's laser projection technology offers a high-quality display similar to direct view LEDs (dvLED). They can also offer potential cost savings due to their flexibility and simplicity. Let's zoom in for a closer look by comparing a **single projector application to direct view LED.**



Consider the **complexity**

For a dvLED, you'll need to design a mounting system for the entire wall, and typically mount many individual tiles in perfect alignment.

You'll also need to:

- ⑤ Calibrate for brightness uniformity across the tiles
- ⑤ Acquire knowledge of the large variety of tile size, brand, and mounting methods
- ⑤ Install power and signal cables to each tile



A large projected image is simple and straightforward.

The primary requirement is to decide which lens works best for your mount location and image size.



Consider the **overall system**

With its complex design, dvLED systems can often result in increased costs across consulting and engineering.

It's important to know:

- ⑤ With dvLED, a complex installation usually means more technicians and longer hours
- ⑤ Customers might need to purchase more tiles up front to ensure similar color tone back-ups in case tiles fail
- ⑤ An HVAC solution could be required to offset heat produced, and an electrician to upgrade available power to the display



With today's laser technology, the typical projector is quiet and power efficient.



Consider the **installation**

When installing a dvLED, the costs can keep adding up.

A few of those costs could include:

- ⑤ Construction of the superstructure to mount the tiles
- ⑤ Image processors to split the image across the tiles
- ⑤ Tile calibration that ensures a seamless image



On the other hand, installing one or two mounts for large images using projectors typically requires a **more modest installation investment** due to the single mount location and image source.



Consider the **maintenance**

Once a dvLED is installed, that's it. There's limited flexibility to change size or location.

- ⑤ Need to expand? Adding — and matching — tiles can be tough, and calibration can be challenging
- ⑤ A single LED light failure often requires specialized technical support on-site to remedy
- ⑤ For many dvLED manufacturers, on-site repair usually requires specialized knowledge



When changing the size of a projector image, simply change the lens or zoom, or move the projector to change your display location.