

dvLED Video Wall Design and Installation Considerations FAQ

Featuring Peerless-AV



dvLED video walls are ideal for low or high-ambient lighting environments. Due to varying artificial and natural light levels, some spaces will not accommodate standard LED or LCD displays. Anti-glare-protected displays can be a solution. But that alternative may not give you the image clarity and experience you envision - where dvLED displays can. dvLED uses LED pixels on the screen's surface to produce images with higher contrast ratios, more vibrant colors, and greater brightness levels, making them ideal for almost any environment.

There are several design and installation elements to consider as you decide how and where to place your display. This FAQ will help you get a head start on the dvLED design and installation process.

dvLED is more visually impactful than standard LED or LCD displays. But are there similar design and planning variables?

The short answer is yes. Like with any display, studying layout, viewing distances, and ambient lighting conditions will help you choose the right display type, size, and power output for maximum impact. Additional design and planning considerations include:

- Current power infrastructure assessment
- Space and lighting conditions and structural integrity review
- Cost-benefit analysis of dvLED vs. LED/LCD video walls
- Display style preferences: flat or curved
- Content you will feature
- Timeline for install

Accounting for each design and planning variable can be time-consuming and stressful for IT. Third-party AV support can streamline design. Engineering and technical consultants can assess your layout and quickly identify the display that fits your business.

What dvLED video wall installation considerations are top priority?

dvLED video walls comprise multiple screen tiles. Damage to the larger video wall, building infrastructure, or injury to people installing or near the display could occur if tiles are not secure. Assess the weight of your display in connection to facility wall or ceiling tolerances. If unable to support the weight alone, we recommend acquiring a wall mount.

[Peerless-AV](#) offers multiple wall-mount solutions for leading video wall manufacturers, including Absen, Barco, LG, and Samsung. The SEAMLESS Kitted Series Universal dvLED Mounting System for latching displays is a slim mount with depth configuration from 2.82 inches to 3.49 inches. Display adaptors and mount frames support X, Y, and Z axis adjustment to overcome wall imperfections. Each adjustment allows the larger video wall to stay flat. The universal mounting system also features quick-connect clamps, helping engineers install each tile faster.

In addition to weight assessment, ensure the wall mount is conveniently accessible by maintenance teams. Confirm the structure is durable enough to withstand the physical demands of video wall optimization.

We also suggest having the mounting and display manufacturer on site to account for any unexpected installation challenges.



What cosmetic components can help ensure my dvLED video wall looks flawless?

In a control room or your lobby, digital displays are a set of mounted screens connected with cables held in place by floor or wall-mounted brackets. The visibility of any video wall's rear side can minimize your display's impact or intended experience, especially in high-traffic areas. Black border trim can make your dvLED video wall appear complete, covering up the "behind-the-scenes" components.

Peerless-AV's SEAMLESS Universal Trim Kit is depth adjustable and can attach to any video wall with a 3.9-inch depth to a 6.3-inch depth. Attaching the trim directly to the wall allows it to go around the border, showcasing a finished display piece to viewers.

When should I involve an audio visual technology design and installation partner?

The earlier an audio visual integration partner is brought in during the concept stage of your video wall install, the more productive and streamlined the process can be.

AVI-SPL can help you assess your space and select a video wall that best fits your environment. We'll collaborate with technology partners, like Peerless-AV, to ensure the selected display is presented flawlessly with suitable mounts and trim.

Together, we take a hands-on approach, making you a part of every step of the installation process, ensuring consensus, and minimizing unforeseen challenges.

Also, we can manage and maintain the video wall post-integration if you don't have the resources available. If you are planning to install new dvLED video walls, connect with AVI-SPL and Peerless-AV. We will ensure your display excels in your environment and is structurally secure.

Contact us to learn how Peerless-AV and AVI-SPL can help install your dvLED video wall. For more on Peerless-AV, visit avispl.com/peerless.