COLLEGE STANDINGS PRODUCT SHOWCASE

PLANAR AND LEYARD EXPAND INDUSTRY-LEADING CLARITY MATRIX VIDEO WALL LINE WITH NEW EXTREME NARROW BEZEL MODELS

Planar and Leyard, today announced the addition of two cutting-edge models to the award-winning, next-generation Clarity Matrix LCD Video Wall System - setting a new benchmark with a tiled bezel width of 1.7 millimeters (mm) for nearly seamless LCD video wall installations.

Planar and Leyard also introduced the Clarity Matrix ColorBalance, an innovative color matching tool co-developed with Portrait Displays, a leader in display calibration. Designed specifically for Clarity Matrix LCD video walls, Clarity Matrix ColorBalance makes it easy to achieve consistent color and brightness across the entire video wall.

Together, these innovations extend Planar and Leyard's existing Clarity Matrix family, which offers the most comprehensive LCD video wall line-up in the industry - along with superior performance, mission-critical reliability and simple installation and service.

Half the Bezel Width of Previous Models: Available in 46-inch and 55-inch sizes, the new Clarity Matrix MX46HDX and Clarity Matrix LX55HDX models offer a tiled bezel width of 1.7 mm, half the size of previous-generation models, allowing for a near-seamless digital canvas that meets today's sophisticated video wall requirements. The Clarity Matrix MX46HDX is an ideal solution for customers who want the narrowest bezel available but need a smaller 46-inch display due to space constraints. The Clarity Matrix MX46HDX offers the highest in pixel density of all Clarity Matrix models and is optimal for applications with a close viewing distance or touch interactivity.

The 500-nit brightness Clarity Matrix LX55HDX offers high performance, 24x7 reliability and easy installation - at a lower price point than Clarity Matrix MX models. It is an ideal video wall solution for indoor environments with controlled ambient light such as surveillance and security command centers.

Both Clarity Matrix models are integrated with the Planar EasyAxis Mounting System that is optimized for extremely narrow bezel widths and offers perfect panel-to-panel alignment. The displays also have an installed depth of less than 3.6 inches, making them compliant with the Americans with Disabilities Act (ADA) for protruding objects. Planar ERO (Extended Ruggedness and Optics) technology is available as an option, providing an optically-bonded glass front that increases the ruggedness and optical performance of these displays in high-traffic and interactive touch environments.

Precise Color Matching for a Near-Perfect Visual Experience: Without the proper tools, matching the color and brightness of an LCD video wall can be challenging. To address this issue, Planar and Leyard partnered with Portrait Displays to deliver Clarity Matrix ColorBalance, which offers users a fast and accurate way to match individual LCD displays that make up a Clarity Matrix video wall. With Clarity Matrix ColorBalance, installers obtain an automated way to calibrate color and brightness, saving time and reducing the complexity of performing manual calibrations. The tool also includes validation and reporting capabilities for installers to leave with clients.

Clarity Matrix MX46HDX and Clarity Matrix LX55HDX join the Clarity Matrix MX55HDX, which also has a tiled bezel width of 1.7 mm and began shipping in Fall 2016. The new models will begin shipping in calendar Q1 2017 through Planar and Leyard's worldwide network of authorized resellers. For more information about Clarity Matrix LCD video walls, visit www.planar.com/Matrix or www.leyard.com/Matrix.

HALL RESEARCH– EASY DISTRIBUTION AND SWITCHING OF MULTIPLE HDMI SOURCES TO MULTIPLE DISPLAYS

The HHD264 family of HDMI over LAN senders (encoders) and receivers (decoders), from Hall Research, allow easy distribution and switching of multiple HDMI sources to multiple displays on any LAN. Up to 64 senders can be simultaneously connected to the network and up to 256 receivers can be accommodated. Full-HD (1080p/60) video is transmitted with user definable bit rate. HDMI video and audio are extended along with bi-directional RS-232 and IR control. Video routing from the senders to the receivers can be pre-assigned or changed on the fly using Dynamic Virtual Matrix technology. Switching is accomplished using WebGUI in each device, or by using Hall Research's free Windows Dynamic Virtual Matrix tool for single point configuration and control. Advance features include: assignment of user defined names to each node (such as Lobby TV, Front Projector, etc), 3rd party Telnet control, video scaling, user definable bit rates, optional password protected login, and more. Both PoE and standard (non-PoE) senders and receivers are offered. The PoE versions do not require any power supply connection as they get their power from the Network.

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PEERLESS-AV SMARTMOUNT SUPREME FULL SERVICE VIDEO WALL MOUNT (DS-VW775)

Peerless-AV's SmartMount Supreme Full Service Video Wall Mount (DS-VW775) is lighter and easier to install/service, featuring new lateral micro-adjustments and convenient serviceability with a pop-out mechanism.

Ideal for creating video walls in various applications, the DS-VW775 offers simple, tool-less micro adjustments for 1.5" of fine tune adjustment on each of the X, Y and Z axes. With the DS-VW775, displays are seamlessly aligned while tedious calculations and onsite guesswork are eliminated for installers, reducing the time and cost of installation. The DS-VW775 offers reusable display-dedicated wall plate spacers, which can be used for both portrait and landscape applications. Additionally, the DS-VW775 is 25% lighter in comparison to previous models, making it easier to hang.

The DS-VW775 ensures a clean aesthetic with enhanced cable management featuring new tabs on the scissor arms that control cables, allowing them to effortlessly travel in and out with the display. For ease of service, the mount is equipped with handles on the top and bottom that can be pulled for the mount to pop out. For recessed wall applications, the mount also features a quick-release pull-tab between the displays that pops the display out from the wall.

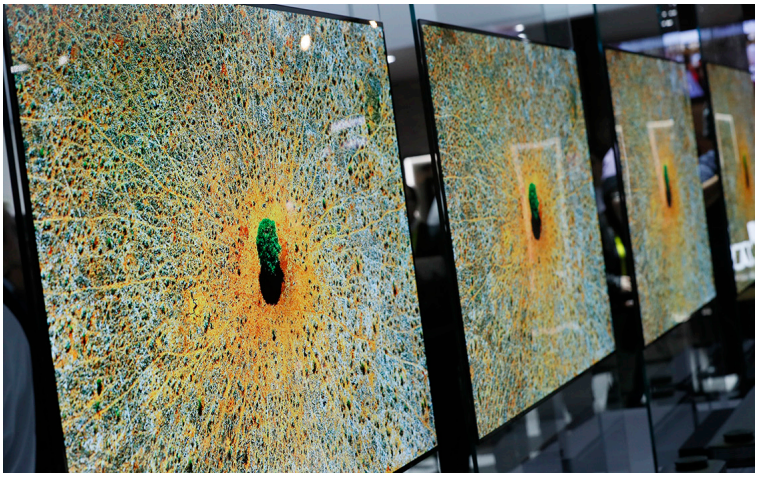
With the DS-VW775's expanded tool-less micro-adjustment, it is faster and easier for integrators to align displays, creating a nicer looking video wall. The DS-VW775 is also easier to stock thanks to its ability to be used for both portrait and landscape orientations. With reusable spacers, an easy hang wall plate, and a lighter design, one person can manage installation, reducing time and costs. The DS-VW775's quick release pop-out lever also eases serviceability and minimizes display damage, particularly in recessed wall applications. And, internal cable management ensures a clean design.

OLED: THE REVOLUTIONARY NEW DISPLAY TECHNOLOGY FROM LG

OLED technology from LG has reinvented the AV digital display. It's now possible to bring greatly improved displays and to provide AV solutions that simply weren't possible with LCD panels.

With so many equipment providers for AV digital displays and signage in recent years, it's been hard to spot one technology that stands out from the crowd. Until now. The new OLED technology stands out because of its superior imaging. OLED provides not just incremental imaging improvements, but dramatic improvements over LCD panels for contrast, color saturation, viewing angles, and more.

LG already has many variations of OLED for the use in any higher education space that demands the best quality imaging: super thin OLED, double-sided OLED, and curved OLED. Their lineup includes a 55" Dual-View Flat OLED Display with mirrored Full HD content on either side and a 65-inch Dual-View Curved Tiling OLED Display that can be linked together to form a

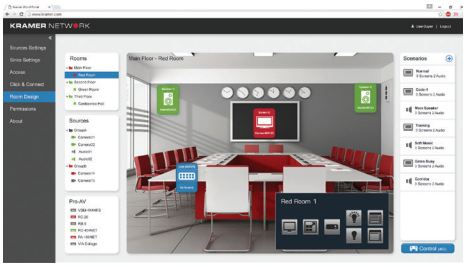


curved display. They also have a 55" Single-View Arched OLED Display that can be custom bent to concave and/or convex formations for constructing immersive tunnel-like environments.

In addition to the architectural flexibility, OLED is about the image itself. OLED-based displays are self-lighting displays without BLU liquid crystal. And because the viewer is seeing each pixel directly, color saturation, contrast, and off-axis viewing are far superior to images on LCD panels. OLED is capable of a refresh rate as low as 0.001ms, compared with the much slower refresh rate of 5ms for LCD. So OLED processes and changes content 5,000 times faster than a standard LED-backlit LCD panel. Additionally, the lower MPRT (motion-picture response-time metric, essentially the time it takes for a pixel to go from black to white to black again) means less image blurring with OLED vs. LCD.

For full descriptions of the complete line of LG's OLED display offerings, go to: http://www.lg.com/us/commercial/oled

KRAMER NETWORK



Networked AV means bigger AV, and that means a tech manager might be handling a network of hundreds of ports. Well, Kramer has arrived with a platform that makes this task as easy as more traditional, smaller-scale AV operations. It's called Kramer Network, and now with any laptop, PC or tablet, IT or AV managers can remotely configure, route, control and manage Kramer Pro AV devices, room environments and IP streaming devices via a user–friendly web-based interface. Kramer Network can be installed on standard, enterprise, virtual or cloud servers for management and control of the manufacturer's entire AV and IP product range, as well as legacy AV, Dante and other devices. The solution also supports API integration, which as we know, will be vital with the advent of the Internet of Things. Also in that vein, the platform features enhanced security with intuitive user–access management of specific audio or video sources, rooms and predefined scenarios. IT and AV managers can also easily monitor the system's health status and track the connection between a source and a destination.

http://www.kramerav.com/Page/Kramer_network

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PEERLESS-AV SMARTMOUNT CART FOR USE WITH MICROSOFT SURFACE HUB (SR598-HUB)

For mobile solutions in corporate applications, hospitality events, and education settings, Peerless-AV's stylish SR598-HUB was designed to securely mount the 55" and 84" versions of the Microsoft Surface Hub at Microsoft's recommended display positioning height of 55". The cart is load rated up to 300 lbs. (136.1kg) and offers vertical adjustment so the display can be positioned at any height up to 60" from the floor, if needed. The large rolling casters provide a smooth way to move the displays from one location to the next while the locking feature offers a stable foundation for use in touch applications. The integrated cable management channels ensure a quick, simple, and aesthetically pleasing way to hide cables, completing the overall appearance and look of the cart as the perfect solution for the Microsoft Surface Hub in any environment.

Corner bumpers are provided on the base of the cart to protect doorways and walls from unintentional damage while moving the cart and if desired, an optional keyboard tray can be located on either column under the display. The SR598-HUB is the ideal mobile solution specially designed for the Microsoft Surface Hub.

SONY LASERLITE LASER LIGHT SOURCE Z-PHOSPHOR PROJECTORS

Sony's newest laser light source (Z-Phosphor) projectors are aimed at making laser technology more cost-effective for the installation market in a range of applications, including classrooms and meeting rooms. The two new LaserLite projectors (models VPL-PHZ10 and VPL-PWZ10) bring the benefits of laser technology — image quality, color reproduction and virtually zero-maintenance — to customers who previously may have only been able to experience lamp-based projection.

The VPL-PHZ10 is WUXGA, 1,920 x 1,200 resolution; and the VPL-PWZ10 is WXGA, 1,280 x 800 resolution. The new fixed wide zoom lens models provide users with a lower-cost, high-quality option for installing laser projections in rooms traditionally geared toward lamp-based technology. The new projectors' light source have a total constant brightness of 4500 lumens for up to 12,000 hours depending on usage environment, enabling users to experience the projectors' original level of image quality over 5 years in standard use, while achieving a maximum 5,000 lm brightness when the constant brightness mode is off.

The new models are designed to deliver enhanced picture quality with features such as "Reality Creation," a technology already in use by Sony's home theater projection systems for high-end consumer entertainment. The Reality Creation engine analyzes and processes every input signal to refine detail, clarity and sharpness for naturally up-scaled images. This provides higher-resolution perspective, even in the lower-resolution WXGA series. The Contrast Enhancer feature expands the perceived dynamic range of the signal by refining light and dark areas of the image in real-time.

Sony's laser light source means there's no lamp that needs to slowly warm up or cool down, no lamp to limit tilt angle and no trade-off between high brightness and high resolution. The laser projectors are designed for up to 20,000 hours of maintenance-free operation, which contributes to reducing users' total cost of ownership.

The projectors are designed for energy efficiency due to their 3LCD engine, with low power consumption to reduce heat dissipation and lower fan noise.

The new models have a wider lens shift range even with their compact body, and are also equipped with built-in HDBaseT interfaces, enabling easier connectivity and reducing total system costs by using a single cable which runs all the video, audio, control and IP signal up to 328 feet (100m).

ROBOTRAK PRESENTER TRACKING SYSTEM

RoboTRAK is an IR lanyard-based system that automatically follows the instructor as they walk around the presentation area of a classroom. The ultra-smooth pan and tilt motion ensures presenter tracking is natural and effortless, enabling the presenter to focus on teaching, not technology. RoboTRAK is comprised of a RoboTRAK IR tracking camera and a presenter lanyard that lasts up to 40 hours on a single battery charge. RoboTRAK pairs with any Vaddio RoboSHOT PTZ camera.

CANON SMALL, LIGHT 4K RESOLUTION LASER PROJECTORS

Canon U.S.A., Inc., has introduced its REALiS 4K600STZ Pro AV Laser LCOS Projector. At only 57.3 pounds, the REALiS 4K600STZ is among the world's smallest and lightest native 4K laser projectors/ The REALiS 4K600STZ projector reproduces exceptionally detailed images with outstanding color accuracy thanks to a combination of core technologies and features including:

- Native 4K Resolution of 4096 x 2400 which is larger than both QFHD and DCI-resolution, the 4K standards for TV and digital cinema respectively.
- Laser Phosphor Light Source which offers an extended operation time up to 20,000 hours or more1, quick start-up2, omnidirectional projector placement, and a wide range of colors.
- 6000 lumens with up to 10,000:1 Dynamic Contrast Ratio3 helps ensure content appears bright with deep black and brilliant white levels, as well as excellent gradation.

For more information: projectors.usa.canon.com

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