

Leading with LED

The Six Ground-Breaking Indoor LED Video Walls To Invest In 2022

Perhaps one of the biggest AV conferencing trends to emerge in 2022, indoor LED video walls are transforming the landscape of conferencing. With not just superior quality images, but also with fully-integrated components such as built-in speakers, remote controllers, and front serviceability modules, indoor LED video walls have transitioned from basic screens mounted on the walls to all-in-one video conferencing solutions that increase productivity levels, enhance the quality of the workforce, and make ease of business possible in its truest form. This article highlights the six ground-breaking indoor LED video walls that are worth an investment in 2022.

Christie Core Series II (0.9 mm LED Tiles)

The Christie Core Series II is a price-conscious option for revolutionary LED video walls ideal for small-scale to large-scale installations. The 0.9 mm LED Tiles variant from Christie's Core Series II is ADA-compliant, direct-mount video wall that delivers ease-of-installation.

Main Features include:

- Available in a range of pixel pitches from 0.9mm to 2.5mm
- Full-front access for easy installation and service
- 16:9 aspect ratio scales to common resolutions including HD and UHD (4K)
- Powered by our E510 controller for simple system design
- Compatible with our E600 controller for enhanced processing that can deliver 4K at 60Hz, HDR10 and low brightness enhancements

Technical Specifications::

- Pixel pitch: 0.9mm
- Pixel configuration: 3-in-1 (1 red 1 green 1 blue)
- Pixel density: 1,137,777 pixels/sq m
- Brightness (maximum calibrated): 800 nits (cd/sq m)
- Aspect ratio: 16:9
- Contrast ratio (full field): 5000:1 @ 1Lux, 2000:1 @ 10Lux
- Viewing angle (degrees) - horizontal / vertical: 160°H / 160°V
- Refresh rate: >3840Hz
- Scan rate: 1/36
- Colour temperature: 2700-9600K
- Display colours: 4.39 trillion (14-bit)
- Power input rating – remote power supply*: 100-240 VAC @ 50-60Hz
- Power consumption per tile/cabinet: 78W Typical | 235W Maximum
- Heat output per tile: 266 BTU/hr Typical | 802 BTU/hr Maximum

Barco TruePix TP1.2

Barco's TruePix TP1.2 is an indoor LED video wall that is designed to be installed in corporate, control room, and broadcast visualization applications, courtesy to its framework that delivers clear, crisp images in ambient and controlled light environments.

Main Features include:

- 24/7 smooth and efficient operations
- True colour accuracy under all lighting conditions
- Reduced ecological footprint with A+ Ecoscore rating
- 10+ years of guaranteed display uniformity

Technical Specifications:

- Pixel pitch: 1.27
- Pixel per module: 480x270 (HxV)
- LED lifetime: 100,000h (video - 50% brightness)
- Brightness: >800 nit
- Internal processing: 23 bit
- Colour depth: 16 bit (281 trillion colours)
- Hor. viewing angle: 160° +/-5°
- Vert. viewing angle: 160° +/-5°
- Brightness uniformity: >98%
- Contrast: >9,000:1
- Power consumption: 704.8 W/m² (max), 221.5 W/m² (typ), <10 W/m² (standby)
- Operation power voltage: 100-240V 50/60Hz
- Operational temperature: -10°C to +40°C / 14°F to 104°F
- Operational humidity: 10 - 80%
- IP rating: IP30
- Dimensions: (WxHxD) 609.92x343.08x71mm / 24.01"x13.5"x2.80"
- Weight: 8.2kg/tile (single PSU) 8.6 kg/tile (dual PSU)



NEC 108" E Series FHD LED Kit

The NEC E Series is designed to be integrated large spaces such as boardrooms, retail, auditoriums, and educational venues. Delivering a seamless LED display while being cost effective, the NEC E Series is a stellar combination of form and function. With a front serviceable design, the LED video wall is easy to install, easy to access, and easy to maintain. With planning, design, installation, and post-installation support included in the LED video wall kit, the NEC E Series is set to help the user on the business at hand, while the rest is taken care of at the back-end.

Main Features Include:

- Full HD (1920x1080) resolution with a refresh rate of >= 3840 Hz
- Front serviceable modules allow installation in difficult-to-access areas
- Replaceable, hot-swappable pixel cards
- ADA compliant, thin, and lightweight design
- Standard installation included

Technical Specifications:

- Panel Technology: Direct View LED
- Aspect Ratio: 16:9
- Module Resolution: 480 x 270
- Pixel Pitch: 1.25 mm
- Brightness (maximum): 660 cd/m²
- Viewing Angle (typical): 85/85 horizontal / 80/80 vertical
- Active Screen Area: 94.4 x 53.2in. / 2400 x 1350mm
- Displayable Colours: 281 Trillion
- Colour Temperature (Typical) (°K): 6500
- Colour Processing: Up to 16 bit
- Colour Temperature (Max) (°K): 3000
- Colour Temperature (Min) (°K): 9500
- Viewable Image Size: 108 in.
- Native Resolution: 1920x1080
- Pixel Configuration: 3-1 SMD (Black)



PALM + AV-ICN reports on the latest popular, reliable, and cost-effective LED video walls available in the Indian pro AV industry today. From Barco's TruePix to NEC E Series, these indoor LED video walls are here to change the conferencing game in the long run.

- Brightness (typical): 600 cd/m²
- Contrast Ratio (typical): 5000:1
- Orientation: Landscape
- Lifetime: 100,000 hours
- Power Consumption On: 944Watts
- Power Consumption (max): 2000 Watts
- Power Consumption (min): 480 Watts
- Dimensions (WxHxD): Without stand: 94.4 x 53.2 x 1.1 in. / 2400 x 1350 x 29 mm
- Net Weight (without stand): 166.4 lbs. / 75.2 kg.
- Serviceability: Front Service
- IP Level: IP20
- Operating Temperature: -4° to 104°F / -20° to 40°C
- Operating Humidity: 10% to 80%
- Limited Warranty (parts & labour): 2 years

Planar MGP1.2

Available in 1.2 mm pixel pitch, the Planar MGP1.2 delivers Full HD and 4K resolutions for a seamless LED display and hi-resolution visual experience. With front serviceability, 27" LED cabinets, and budget-conscious price tag, the Planar MGP1.2 offers all the benefits of a LED video wall at the price of a tiled LCD video wall.

Main Features include:

- 1.2 mm pixel pitch
- Features 16:9 aspect ratio for video
- Mounted profile less than 4"
- Front installation & serviceability available

Technical Specifications:

- Planar Model: MGP1.2
- Pixel Pitch: 1.25
- Cabinet Resolution: 480 x 270
- Pixel Density: 640,000/m² | 59,451/ft²
- Cabinet Size: 600 x 337.5 x 53mm | 23.62 x 13.29 x 2.09in
- Cabinet Diagonal: 688.4mm | 27.1in
- Cabinet Area: 0.2025m² | 2.18ft²
- Modules/Cabinet (W x H): 4 x 1
- Module Size: 150x337.5mm | 5.91x13.29in
- Power Consumption, Maximum (watts): 110/Cabinet | 543/m²
- Cabinet Weight (per display): 6.08kg | 13.39lbs
- Cabinet Weight (per m²): 30kg | 66.12lbs



- Brightness: 600
- Contrast Ratio: 5000:1
- Viewing Angle, Horizontal: 160°
- Viewing Angle, Vertical: 140°
- Service Access: Front, Rear
- Environment: Indoor
- Operating Temperature/Humidity (degrees F/C, relative humidity): -20° to 40° C | -4° to 104° F 10-80%
- LED Lifetime: Typical: 100,000

Samsung The Wall All-In-One 146" (P.84)

Samsung's The Wall All-In-One is a LED video wall that stands true to its name. A complete solution that is easy-to-install, the Wall All-In-One delivers on the promise of brighter, bolder visuals with Black Seal Technology that creates a seamless pure black background for images with enhanced depth and unparalleled contrast.

Main features include:

- Enabled with Black Seal Technology
- Features Ultra Chroma Technology
- Easy to install, thanks to docking and hanging
- Comes with all-inclusive, built-in components
- Linear grayscale for continuous natural shading

Technical Specifications:

- Pixel Pitch: 0.84mm
- Pixel Configuration: 1 red, 1 green, 1 blue
- Diode Type: Flip-chip RGB LED
- Configuration (LxH, per screen): 3840 x 2160 pixels
- Dimensions (mm, LxHxD, per screen): 3225.6 x 1814.4 x 49 mm
- Dimensions (inch, per screen): 145.7 x 1.9 inch
- No. of Modules (WxH, per screen): 16 x 12
- Weight (per screen): 168 kg



- Size: 146" UHD
- Type: IA Series
- Brightness: Yes
- Brightness (Peak / Max): 1600 nit / 500 nit
- Contrast Ratio: 24000 : 1
- HDR Compatibility: LED HDR / HDR10+ support / AI Picture
- Viewing Angle – Horizontal: 170°
- Viewing Angle – Vertical: 155°
- Bit Depth: 16 bit (Internal processing 20bit)
- Colour Temperature (Default): 6,500K ± 500K (Floating bin)
- Colour Temperature (Adjustable): 2,800K ~ 10,000K
- Video Rate: 50/60 Hz 100/120 (FRC) Hz
- Input Power Range: 100~240 VAC, 50/60 Hz
- Power Consumption (Max): 1700 (W/Screen)
- Power Consumption (Typical): 1100 (W/Screen)
- Working Temperature / Humidity: 0°C~+40°C / 10%~80%RH
- IP Rating: IP20
- LED Lifetime: 150,000 hours
- Package Weight (per Cabinet): 301 kg

MAXHUB Integrated LED Wall Raptor Series – LM120A03

The LM120A03 from MAXHUB's new LED video wall series helps presenters and participants interact more seamlessly and more naturally. With improved voice intelligibility, the LM120A03 is here to revolutionize the way LED video wall works.

Main features include:

- Features screwless fabric
- 3-in-1 plug-and-play installation design
- Flexible PIB/PBP display modes
- Screen split available for up to four windows
- Comes with fully-integrated 2 x 30W speakers

Technical Specifications:

- Size (inch): 120
- Pixel Pitch (mm): 2.0
- Resolution: 1280*720
- Overall Size (W*H*D*mm): 2678*1616*30
- Weight (Kg): 95
- Power Requirement (Max/Ave): 1.5/0.6

