



# **AUDIO VISUAL** HOSPITALITY SOLUTIONS GUIDE



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# WHY AV MATTERS

CCS Presentation Systems has the perfect solution for your hotel or restaurant audio visual needs. Empower your communications; create touch based systems for your clients to explore and play and get their questions answered; design the audio visual system for training and maintaining excellence with your staff, and integrate with your current technology to make the transition and control seamless.



**CCS Presentation Systems** designs solutions for any hospitality company, whether you need engaging digital signage, show stopping projection, or top of the line audio systems, we've got you covered.



# **DISPLAY SOLUTIONS**



# CHRISTIE MICROTILES LED

Cabinet-free. Ultra-lightweight.  
Any shape you want.

Architectural design

Broadcast sets

Corporate

Live events

Museums

Retail

Stadiums

Universities

**CHRISTIE**<sup>®</sup>  
MICROTILES<sup>®</sup>  
LED



## Limitless design freedom – Any shape, any size

Unleash your creativity and design outside the box with Christie MicroTiles LED. The proprietary cabinet-free Click-n-Go™ LED tiles can be arranged seamlessly in near-limitless ways while the innovative ADA-compliant QuickMount™ system lets you build your display in virtually any shape or size. Corners and curves, giant video walls, ribbons, and pillars – it's all possible with MicroTiles LED.

## Superior visual quality – Automatically optimized

Christie MicroTiles LED features advanced LED display technology and powerful processing and control capabilities to produce an extraordinary, blur-free viewing experience. Bright, high-contrast visuals and cinema-quality color produces brilliant, true-to-life detail. Patented real-time IR Neighbor Detection™ and AutoMatch™ brightness and color matching automatically ensures image uniformity across the entire display for the duration of its operational life.



**CHRISTIE**  
MICROTILES<sup>®</sup>  
LED

### Custom design

90° inside and outside corners

Concave and convex curves

12-bit at 4K@120Hz

Cinema-quality color

>97% uniformity





# FREEDOM TO DESIGN



With an unobtrusive, modular building block design, Christie MicroTiles seamlessly blend into any environment, allowing your audience to focus on the intended message and not the technology being used to display it. Christie MicroTiles have the right combination of high brightness and rich contrast for demanding indoor, high ambient light environments. There's no glare or distracting reflections so your message is always clear.

**Design freedom:** Designers can specify any size, and any shape display to fit their intended environment. The form factor is narrow and easy to incorporate into a building design. Consider this another building material created to make your dreams a reality.

**Amazing image quality:** Amalgamating the strengths of LED and DLP technology, Christie MicroTiles offer a color range that far exceeds conventional LCD and plasma technologies.

**Optimal viewing angles:** Other display options force audiences into awkward angles and distances to truly 'see' your message. Up close or from a distance, Christie MicroTiles deliver crisp, high-resolution images at any viewing angle.

**Easy set-up:** Weighing in at only 20lbs (9.2kg) these lightweight tiles lock together quickly and easily, making creativity fun again. Create unique sizes and shapes in a snap.

**Low operating costs:** When you make a significant investment you want it to last. Christie MicroTiles are more reliable and more serviceable than traditional display technologies. We've raised the bar – imagine 24/7 operation for more than 7 years. Put another way, that's 65,000 hours before your tiles reach half brightness.

**Environmental sensitivity:** Christie is conscious of the push towards greener solutions. That's why we've created a product with no consumables. No consumables are a big deal in today's environment. We're RoHS compliant and have built-in eco-power consumption modes. Christie MicroTiles are an ideal choice for LEED projects, and for any building where environmental standards must be met.

# Transforming Hospitality with Digital Signage



Hospitality establishments and entertainment venues are in a unique position today.

Because the bulk of the customer experience exists in the real world for hospitality companies, hotels, restaurants, nightclubs, bars, and entertainment venues can make use of their physical spaces to attract, inform and entertain consumers. The key to engaging customers lies in three digital display technologies: Projectors, dvLED and large format displays.

This guide to digital signage shows how these two technologies are changing the game for hospitality businesses.

## An Introduction to Digital Signage and Projection Solutions

Hospitality companies have traditionally used poster board products to share promotions and announcements with their customers. While large paper signs may have sufficed when they were the only option available, large format screens and laser projectors now provide more versatile and engaging solutions.

### dvLED and LCD Screens

Due to manual wear-and-tear and the elements – or the information on it rapidly becoming outdated – paper signage hasn't always been a reliable or practical way to communicate with hospitality patrons. Digital signage in the form of commercial dvLED and LCD displays, however, is changing that.

Improvements in dvLED and LCD technologies allow hospitality businesses to use digital signage in many new ways. Here are just some of the options hospitality can adopt for entertainment, promotional and customer service purposes:

- Hotel room or over-the-bar TV screens
- Wayfinding screens
- Self-service kiosk screens
- Drive-through or counter-side digital menu boards
- Video walls
- Indoor and outdoor display panels
- Large-screen displays for conferences, quiz nights and other group gatherings

Digital signage enables hospitality establishments to transform wall space into something larger and much more engaging and informative. They can present a wide variety of content on these screens, ranging from branded promotions and interactive social media challenges to instant travel alerts, up-to-date menu content and upcoming specials. And because they sit on a digital display instead of a piece of paper, messages can be updated in real time.

## Projection

The interior and exterior of hospitality venues are filled with surfaces suitable for projected images. Projectors can transform these surfaces to create an eye-catching, captivating and customizable experience for customers.

Projection has become an attractive option for many businesses because laser projectors are simply a smarter choice than traditional lamp-based projectors. That's because laser projectors are brighter, quieter, last longer and are easier to maintain.

An exciting imaging technique, called projection mapping, enables hospitality establishments to go way beyond standard projection to transform spaces into something much more engaging. Laser projectors are particularly well-suited to map colors, images, videos, and even 3D content onto irregular surfaces, such as building exteriors and indoor spaces.

Here are some creative ways hospitality businesses can use projection to boost customer engagement:

- Display branded images or video content onto any wall for signage purposes.
- Change the texture of a surface (for example, from transparent to opaque).
- Share a broadcast of an event to keep visitors or customers entertained while they wait.
- Mount a projector at an odd angle to shade a certain space with color.
- Convert a lobby from a daytime atmosphere to one more fitting for nightlife.
- Use edge blending to combine more than one projected image into a larger image.

## What to Consider Before Choosing a Digital Signage Solution

Before adopting any new technology for your hospitality business, take time to weigh your needs against what you get in return. Here are some of the most important considerations to keep in mind when thinking about display devices:

### Cost

When considering cost, don't just look at the price tag of the display device because they're not all created equally. Consider what your total cost of ownership will be if you invest in something less expensive now. Standard maintenance, repairs and earlier replacement of the signage could cost you much more in the long run. Don't forget about installation and energy costs.

### Warranty

When it comes to commercial technology, you'll likely see warranties ranging from one to three years, though you can find them for up to five years. If you want to protect your investment, look for longer warranty terms, as well as speedy repair or replacement guarantees to minimize downtime.

### Durability

You have a choice of where to place your digital signage, but indoor and outdoor placements can lead to undesirable circumstances if your technology isn't made specifically for them. Consider investing in rugged, commercial-grade tech that can withstand heat (for kitchens), resist water (for outdoor placements) and fight glare (for screens).

### Purpose

Give some thought to what you need, what content you want to create and who you aim to deliver it to. Do immersive projections or engaging signage make more sense?

### Surfaces

Once you've sorted out the purpose of your signage, think about where it will go in terms of surfaces and mounts. Laser projections can display images over much larger spaces, so keep that in mind. They can also be less physically intrusive than digital signage because projectors sit out of harm's way while the projected image can be found on most any surface.

### Run times

In some cases, digital signage won't be needed all day. In others, you may need extended runtimes (like venues in Times Square or Las Vegas that are open all day and night).

## Your Establishment

When new signage is installed in or around your establishment, someone will be affected by it. If you're driving new promotions on an external display, is your kitchen prepared to handle the influx of traffic? If you're shining a spotlight on a new act performing at the club, have you worked out the kinks in your sound system? Think ahead to ensure your new digital signage complements your capabilities and workflows.

## The Future of Signage

Hospitality venues stand to gain a lot from using new digital display technologies. This engaging style of marketing:

- Provides a more welcoming or engaging ambience.
- Draws attention to new or special features, events and offers.
- Updates content and venue information in real time.
- Increases customer dwell times and spend.
- Improves the speed and accuracy of the ordering experience.
- Boosts customer engagement through interactivity or keyed events, which helps to improve revenue in a retail environment.

Because of the highly unique way in which digital signage can be used, hospitality establishments can now change the typical everyday image or video into something truly engaging and extraordinary.

### About NEC Display Solutions of America, Inc.

*NEC Display Solutions of America, Inc., a leading designer and provider of innovative displays, offers the widest range of products on the market, such as commercial- and professional-grade large-screen LCD displays, desktop LCD monitors, direct view LED displays, a diverse line of multimedia and digital cinema projectors, and integrated display solutions. Benefitting from the technologies of NEC Corporation and its own Research and Development, NEC produces leading-edge visual technology and customer-focused solutions for a wide variety of markets, including education, retail, transportation, broadcast, enterprise, healthcare, houses of worship, and many more. NEC is orchestrating a brighter world with the quality and reliability of its products and outstanding customer service. For additional information about NEC Display Solutions of America products, call (866) NEC-MORE, or visit the website at [www.necdisplay.com](http://www.necdisplay.com). Follow us on our social media channels: Facebook, YouTube, Google+, Twitter and LinkedIn.*

Orchestrating a brighter world

**NEC**

46" LED-backlit, SPVA, ultra-narrow bezel,  
LCD displays ideal for video wall applications

## NEC LCD Video Wall Displays



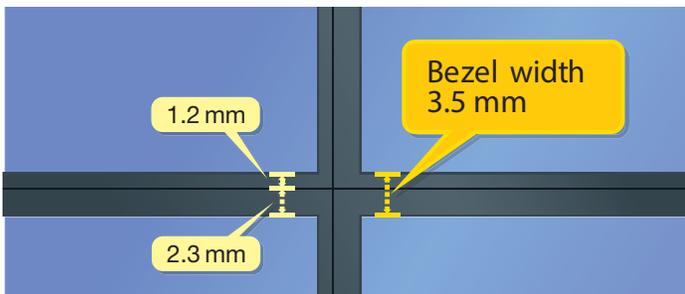
24/7 runtimes, advanced calibration techniques and picture perfect image quality make these displays ideal video wall solutions for retail signage, control room applications, broadcast environments and rental markets.

### The Ideal Video Wall Display

Transform your video walls with the crystal clear imagery of the NEC 46" UN462A and UN462VA. On top of this, there have been many advancements in color control for each display. SPVA panel technology provides exceptional contrast ratio and image quality for all types of installations. Also, direct LED backlighting not only reduces power consumption but also improves edge-to-edge brightness uniformity. Mere millimeters separate content from display to display which ensures a smooth transition across a video wall. This display is ideal for digital signage, command and control, entrance lobbies and broadcast applications, and can be deployed in video wall applications up to 10 x 10 in size utilizing integrated TileMatrix™ technology. TileMatrix technology within these displays can also now support up to UHD (3840 x 2160) resolution through the internal daisy chain functionality through both the DisplayPort and HDMI out connections to allow for ultra high definition resolution across the entire video wall. New groundbreaking SpectraView Engine technology integrated into each display allows for the most advanced color control in the market allowing for the ultimate uniformity from display to neighboring display for consistency across the entire wall.

### SPVA Panel and an Ultra Narrow Bezel

Brand new SPVA panel technology allows for UN462A and UN462VA minimize the bezel to a mere 3.5mm while maintaining high native contrast ratio and superb image quality compared to typical video wall displays. On top of that, each display is equipped with TileComp technology which allows the content that would be behind these bezels to be compensated for, allowing for truer and more realistic imagery.

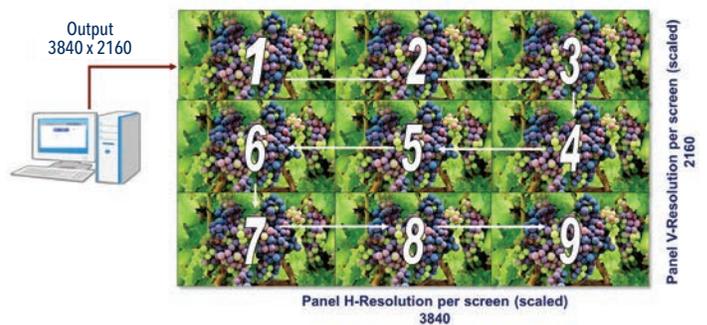


### Auto TileMatrix, Auto ID and Auto IP Address Technologies

Auto TileMatrix and ID features allow a user to simply set up the size of the video wall on the first display and automatically scale the content across the remaining displays. Auto IP Address simplifies control setup by setting the static IP address on the first display then initiating the feature so that the IP Addresses of consecutive displays following the LAN daisy chain.

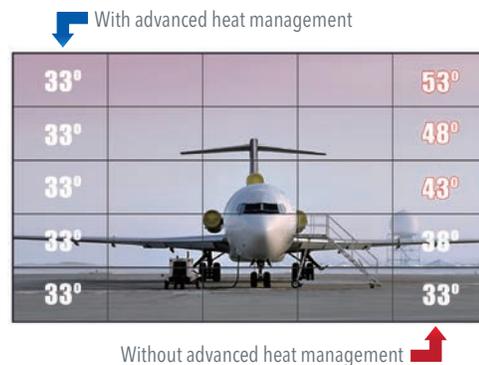
### DisplayPort and HDMI UHD Daisy Chain Functionality

These displays have the ability to input a 4K UHD signal via and then also output the same signal across the entire wall via both an HDMI and DisplayPort out connection. This allows TileMatrix to support up to 4x the native resolution of each individual display.



### Advanced Heat Management

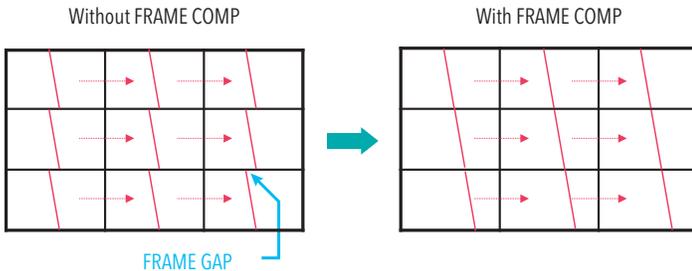
Monitoring and managing the temperature of each display is crucial to secure reliability and longevity. An industrial-strength, premium-grade panel with additional thermal protection, internal temperature sensors with self-diagnostics, and fan-based technology allows for 24/7 operation, and protects your display investment.



Without heat management, the displays placed higher on a wall will sustain a hotter temperature than the screens below. This damaging heat will lower the picture quality and life expectancy of the product. However, NEC's advanced heat management ensures heat dissipation for a more uniform overall wall temperature. Integrated cooling fans automatically turn on and stay on when high internal temperatures are detected. These will stay on until the heat is properly dissipated and the display remains under proper temperature thresholds.

### Frame Comp Functionality

By allowing per row frame adjustment across the video wall, this feature allows for better content synchronization when content is moving across the video wall.



### Human Sensor and Ambient Light Sensor

This new optional human (motion) sensor accessory (KT-RC3) helps to deliver creative digital signage to end users by allowing for dynamic control of brightness, audio and source inputs while saving operating costs. Auto dimming adjusts the backlight of the LCD automatically depending on the amount of ambient light. This sensor also acts as a IR sensor that can be utilized to control the entire video wall either by individually controlling each monitor through the LAN daisy chain or by controlling each display simultaneously.



### Anti-Glare Panel

All of the new video wall displays come equipped with a high haze panel that scatters ambient lighting rather than reflecting it like most other displays. This allows for content to always be viewable and onlookers to have perfect screen readability in any situation. This is an ideal feature in the case of high ambient light situations such as through the windows of an airport or if there are spot or track lighting directly above the video walls in a retail application.



With Anti-Glare



Without Anti-Glare

### NaViSet Administrator 2

This software is an all-in-one remote support solution that runs from a central location and provides monitoring, asset management and control functionality of the majority of NEC display devices and Windows computers. It is ideal for multi-device installations over larger infrastructures.



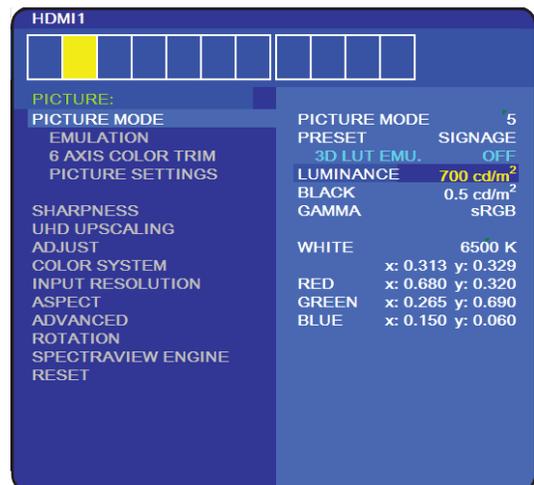
### Dedicated Color Calibration Software

As the brightness and color temperature of the LCD change with time, colors may not match across multiple screens. The NEC Display Wall Calibrator software ensures color uniformity and fidelity across multiple screens, creating a perfectly matched image in tiled environments. On top of this, the Display Wall Calibrator function works 2x faster than with previous generations of these displays. There is also a new feature to update the uniformity across a display via recalibration if necessary and to dynamically adjust the corners for slight color differences.

## NEC Display Wall Calibrator

### Spectrview Engine

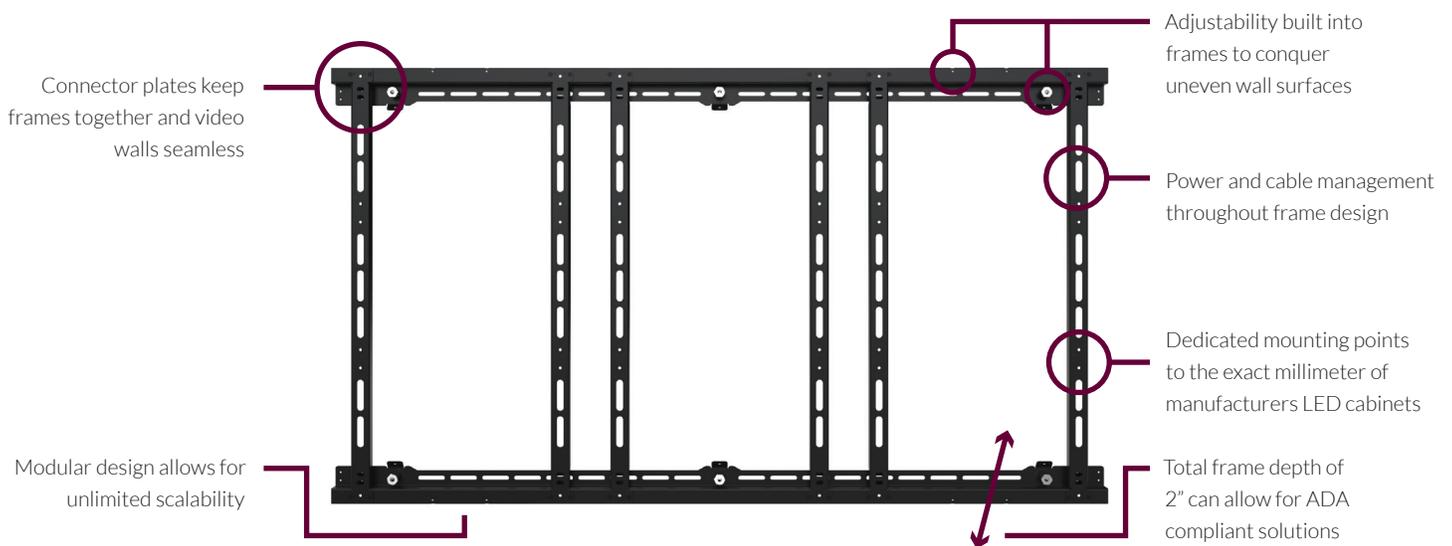
Utilizing NEC proprietary SpectraView Engine technology, each display is calibrated at a factory level on a grid pattern for white point, gamma and color. Each display can also support a 'Self Calibration' allowing one to plug a MDSVSENSOR3 directly into the display and update the factory calibration for white point, RGB and luminance to match that of the color sensor. This allows the OSD settings to match that of the color sensor being used. After a self calibration there is also a 'White Copy' function that can be utilized when adding a new display into an existing video wall. This allows for one to simply copy the white pattern from an adjacent display into a new display with ease.



# **MOUNTING SOLUTIONS**

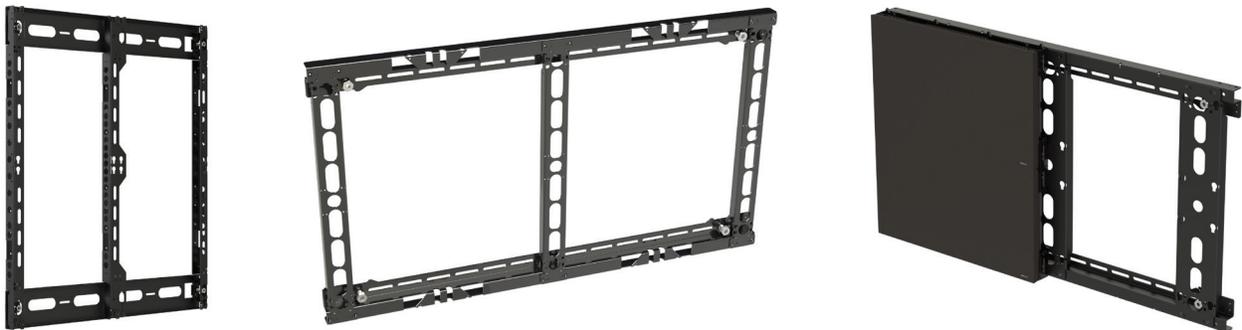


At Premier Mounts, one of our core values is continuous innovation. For 41 years, we have used our knowledge and expertise in the display industry to manufacture industry transformative products that establish foundations for substantial AV projects around the globe. After working to deploy the newest direct-view LED displays in large-scale video wall formats, we have created a solution that is truly game changing.



The Convergent series is making the installation of LED video walls easier. It also brings increased values to dealers and distributors as well. There are several changes to the way we extend the best LED mounting system to our partners. Our goal is to put the best solution in your hands without complications.

- Solutions ship within 48 hours.
- Packaging is now in smaller boxes to reduce shipping costs and make it easier to move around on the job site.
- No longer requires 50% deposit on orders. All orders are subject to net credit terms.



A video wall is only as good as the mount that supports it. Reach out to your account managers today to learn how to get your hands on an industry defining solution from Premier Mounts.

# **PROJECTION SOLUTIONS**



# Epson® Laser Pro L Series

**EPSON®**  
EXCEED YOUR VISION

Premium large-venue laser projectors with virtually maintenance-free operation.



Pro L1100U/NL | Pro L1200U/NL | Pro L1300U/NL | Pro L1405U/NL | Pro L1500U/NL | Pro L1505U/NL



Premium large-venue  
laser projectors from Epson.



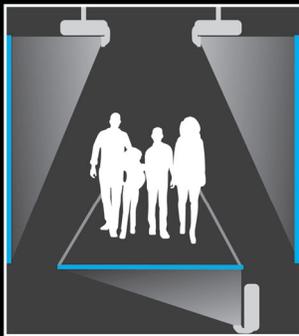
# Zero-offset Ultra Short-throw Lens

Transform your Pro L Series projector into an ultra short-throw projector. Featuring a 0.35 throw ratio and zero offset, this lens allows you to install the projector just inches from the screen or wall and still get large, clear, crisp projection. It's an ideal solution for installation in narrow spaces and rear-projection applications. Plus, the lens shift gives you even more flexibility when you need it.

Available on the Pro L1100U/NL, Pro L1200U/NL, Pro L1300U/NL and Pro L1405U/NL models.



All projected images are simulated.



Front projection from above and rear projection from below the floor surface create an immersive experience.



Project from above or below for a dynamic window display.



# Built for Rental and Staging

## DMX Art-Net

Art-Net\* is a protocol for transmitting the lighting control protocol for rental and staging applications. This feature allows you to integrate these Pro L Series projectors into your lighting control protocol for a more intense light show.

\*Available on the L1405U/NL, L1500U/NL and L1505U/NL models.

## Additional Features:

- Laser light source offers reliability, a long life and custom brightness modes
- Reliable performance with up to 20,000 hours of maintenance-free operation<sup>4</sup>
- Advanced connectivity options include: 3G-SDI\*, HDBaseT™, DVI and HDMI®
- Motorized lenses with lens position memory
- Flexible installation, including 360-degree projection and Portrait Modes



All projected images are simulated.

# Projection Mapping



All projected images are simulated.

Transform practically any object or setting into a dynamic visual display. From cars to landscapes to building exteriors, there is almost no limit to the applications made possible by projection mapping — every surface can become a screen.

# Flexible Projection

## True 360-degree Projection

Take advantage of every surface in the room. Featuring a laser light source, Pro L Series projectors can be rotated 360 degrees in any direction for off-axis positioning (without the need to switch out a lamp). And, there are no tilt angle restrictions. Project straight down on the floor, straight up on the ceiling, or tilted in any direction — Epson technology keeps the projector running without compromising performance or image quality.



## Portrait Mode

A creative solution for window advertisements, fashion shows, live performances and virtually any setting requiring projection onto tall, vertical screens or surfaces, Portrait Mode enables you to install the projector on its side for displaying digital signage, screening images or projecting video with portrait orientation. Plus, the projector's laser light source means there's no need to swap out lamps for Portrait Mode.



All projected images are simulated.

## PARALLAX PURE

Parallax® Pure is a True Optical ALR solution that features an optical lens system to reject light. Multiple surface layers absorb light while one special layer is shaped like a microscopic saw-tooth to block light from above, preserving high contrast images in brightly lit environments.

### Parallax Pure 0.8

Parallax Pure 0.8 features a superior viewing cone so viewers experience bright, speckle-free images in high ambient light areas, regardless of location from the screen. This surface is recommended for laser projection (standard throw: 1.5:1 or greater).

Viewing Cone: 170°

Gain: 0.8

Ambient Light Rejection: 96%



### Parallax Pure UST 0.45

Parallax Pure UST 0.45 is designed specifically for ultra short throw projection (0.4:1 or less) and is recommended for laser projectors. This surface is ideal for brightly lit UST installations that require a wide viewing cone, so every viewer experiences excellent image quality.

Viewing Cone: 160°

Gain: 0.45

Ambient Light Rejection: 95%



### Parallax Pure 2.3

Featuring the highest gain of all ALR surfaces on the market, Parallax Pure 2.3 produces luminous images and can be paired with low output projectors. It is suitable for laser projection (standard throw: 1.8:1 or greater).

Viewing Cone: 46°

Gain: 2.3

Ambient Light Rejection: 96%



## USE PARALLAX PURE WHEN:

- The **most** ambient light rejection is needed in an installation
- Sizes are up to 120" diagonal in 16:9
- Image quality and resolution are critical
- A variety of gain types may be needed to accommodate projector models or lenses

## PARALLAX STRATOS

Parallax Stratos is a Contrast Based ALR solution. The gray color and other proprietary design elements in the surface combine to absorb ambient light rather than reflect it. Engineered as a high value surface for large scale installations, Parallax Stratos maintains and enhances image contrast for viewers.

### Parallax Stratos 1.0 - NEW!

The new Parallax Stratos 1.0 is available in tensioned electric and fixed frame screen options for large scale installations including: Wireline™ Advantage®, Tensioned Large Advantage Deluxe, Tensioned Large Cosmopolitan®, Cinema Contour® and more! Seamless ALR screens can now be up to 16 feet in height. Suitable for laser projection (standard throw: 1.0:1 or greater).

Viewing Cone: 60°

Gain: 1.0

Ambient Light Rejection: 80%



## USE PARALLAX STRATOS WHEN:

- High ambient light rejection is needed in an installation
- Sizes are larger than 120" diagonal in 16:9
- Color and contrast need to be enhanced in the projected image
- A single surface solution with a variety of product types can solve the basic ambient light rejection needs of the project



### **IDEA Screen**

Designed for ultra short throw projectors, the IDEA™ Screen can be used as a touch screen or as a whiteboard with dry-erase markers. Featuring upgraded durability, surface uniformity and rigidity to ensure a superior interactive experience, all IDEA Screens are magnetic and have a thin frame.



### **Integrated Interactive System (AN3)**

Da-Lite Integrated Interactive System is an all-in-one solution that brings the best in screen technology and mounts to create a system pairing for the Epson BrightLink and BrightLink Pro. Optimized for finger touch technology, this sleek, innovative system is designed to bring interactivity to a new level. Like IDEA screens, the magnetic surface can also be used as a whiteboard.



### **Wireline Advantage**

Designed for large venues, the Wireline™ Advantage® uses thin steel cables up to 29 feet instead of black drop to lower the screen to an appropriate viewing height for a clean, aesthetically pleasing presentation. Installation is fast and simple with sliding brackets and ceiling trim built into the housing.



### **FullVision**

FullVision is a border-less fixed frame projection screen that enables the entire surface to be used for projection. Modern and low-profile, FullVision is a great choice for any room where the screen should blend into the environment when not in use and deliver the very best in projection when the projector turns on.



### **DescenderPro - NEW!**

The new DescenderPro features a compact housing, up to 1/3 smaller than similar electric screens with standard internal junction box and silent motor. This is the first product Da-Lite stocks ready to ship same day. Available as tensioned or non-tensioned, in 16:9 and 16:10 formats in sizes from 106"-164" diagonal. Offered in four surface options including HD Progressive and standard projection.



### **Tensioned Contour Electrol**

The Tensioned Contour® Electrol® is the latest ceiling or wall-mounted electric screen offering simple installation. Available with a white or black case, the Contour is a seamless addition to any room. Tensioned screens ensure the smoothest surface possible.



### **Tensioned Advantage Electrol**

Designed to eliminate the extra step of finishing the screen with trim, the Advantage® Electrol® line of projection screens is designed with ceiling trim already in place. Sliding installation brackets make it easy to attach the screen housing to the structure above the drop ceiling.



### **5 Year Warranty**

Dedicated to continuous quality improvement and superior after-sales support, Da-Lite has extended a five year comprehensive warranty to their top 40 screen products.



FOR YOUR IMAGE | legrandav.com

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### **COMMERCIAL BRANDS**

Chief | Da-Lite | Middle Atlantic | Projecta | Vaddio

# **AUDIO SOLUTIONS**





# QSC<sup>®</sup>

## PREMIUM

# BUSINESS MUSIC SOLUTIONS

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These complete music reinforcement solutions support retail, restaurant, hospitality, gyms and other commercial spaces, and are backed by a 50-year legacy of QSC reliability and support.

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- ✓ **One complete catalog** of new business music mixers, power amplifiers, small-format loudspeakers and controllers
- ✓ **Easy to install and configure** to minimize your installation and commissioning labor
- ✓ **Simplified end user experience** with configurable wall-mount controllers and innovative smartphone app



## comprehensive portfolio

Just add audio sources and QSC takes care of the rest! Simplify the quoting and design process by choosing from a single catalog that offers a complete end-to-end audio solution for foreground reinforcement and background music across a wide spectrum of installation requirements.

- Choose from an entire line of multi-zone mixers and processors, SUB/SAT loudspeakers, configurable multi-channel amplifiers and a complimentary wall controllers.
- From pendant-mount, surface-mount and ceiling-mount, all loudspeaker enclosure types in AcousticDesign™ Series loudspeakers maintain remarkably consistent sonic characteristics across all form factors.



## architecturally pleasing

The QSC Premium Business Music Solutions maintain a holistic design approach throughout the portfolio to enhance the look of any installation.

- All loudspeakers, wall controllers and even rack-mount devices in the solution share a sleek, modern aesthetic philosophy.
- Unadorned loudspeaker grilles and stylish enclosures, available in black or white, support the aesthetic of the most demanding installations.
- Simple yet elegant wall controllers, available in black and white, feature a crisp display.
- Matching 1RU mixer and amplifier chassis combinations for those installations that feature open racks.



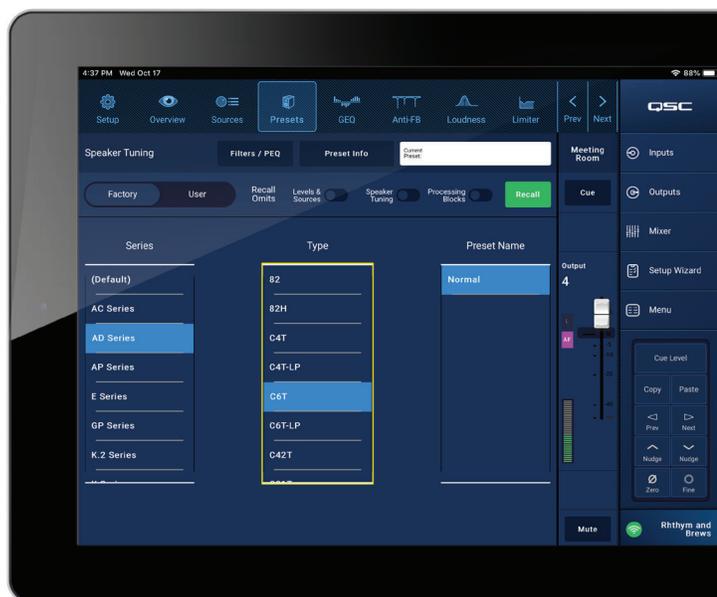


# fast installation and configuration

Minimizing your installation and commissioning labor costs with a host of smart mounting and I/O features.



- High channel-count amplifiers with flexible power distribution can be configured in a matter of minutes.
- Professional connectors on every element and ingenious mounting hardware facilitate predictable, repeatable installations.
- Built-in Intrinsic Correction™ (QSC loudspeaker voicings) in the MP-M Series mixer maximizes system performance and the auditory experience for your patrons.
- Intuitive mobile-device friendly configuration application guides the programmer/installer through the entire setup workflow.



# streamlined user experience

Protect the patron experience and your investment by putting the right level of control at your staff's fingertips.



- End user access peripherals can be programmed using MP Install to allow specific access to only pre-determined settings.
- Elegant programmable wall-mount zone controllers with sharp digital display allow for adjustments to volume, sources or scenes so your staff can focus on their own tasks and not the AV system.
- Optional wireless smartphone control gives additional zone control and system oversight.

# mixers

## MP-M Series paging and music mixers

<b>MP-M40</b>	4 mic/line inputs   4 line level inputs   4 output zones
<b>MP-M80</b>	8 mic/line inputs   8 line level inputs   8 output zones



The MP-M Series paging and music mixers offer unprecedented capabilities for processing and routing high-quality foreground/background audio for multi-zone retail and hospitality applications, and provides live mixing functionality for business applications that also require live speech reinforcement -- including fitness clubs, hotel meeting rooms, banquet halls, etc.

## MP Install

System design application for the MP-M Series mixers

**Guided configuration:** An intuitive workflow guides the programmer through zone configuration, EQ settings, QSC loudspeaker tuning (Intrinsic Correction), paging priorities, end-user controllers and more.

**Offline/online design modes:** Do most of your pre-work in "Offline Mode" then complete the tuning as you roam around the venue.

Available for iOS/Android tablets, and Windows/Mac PCs)





# controllers

End user controller for the MP-M Series mixer

## MP-MFC

Wall mount controllers

**Elegantly simple wall controllers:** Staff members will have no trouble adjusting volume settings, selecting a source or recalling a scene.

**Customize and protect:** Customized with MP Install, MP-MFC only allows access to predetermined settings, sources and ranges.



Available in black or white, with models that fit either North American (Decora® compatible) or European electrical boxes.

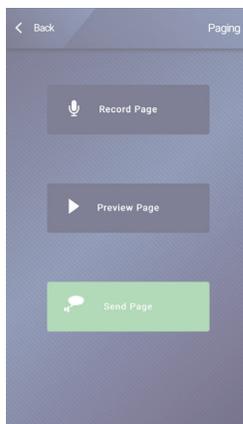


## MP Manage

Wireless system controller application

**Customized control and access:** Gain wireless system control for day-to-day operations and functions, including zone level control, source selection, scheduling, scenes and more.

**Wireless store-and-forward paging:** Put the power of a robust page station into your phone or tablet.



MP Manage

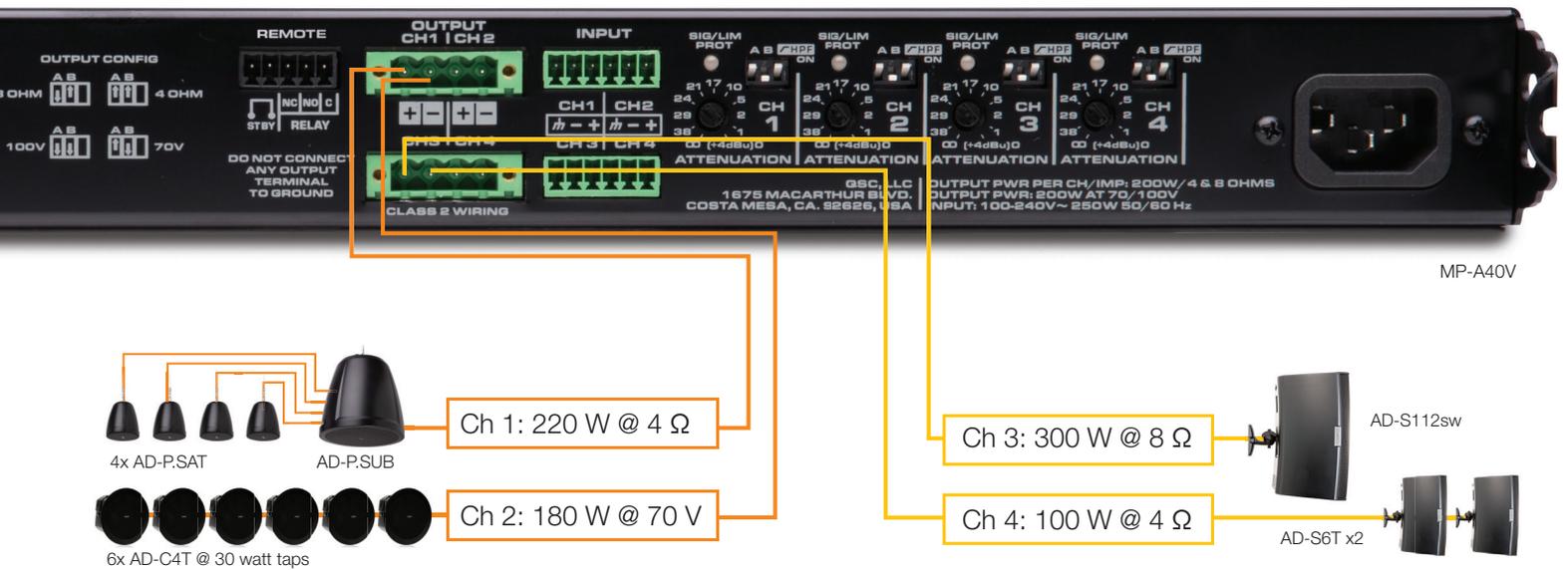
Available for iOS & Android smartphones

# amplifiers

## MP-A Series multi-channel amplifiers

- MP-A20V** 2-channel x 200 W
- MP-A40V** 4-channel x 200 W
- MP-A80V** 8-channel x 200 W

The MP-A Series music and paging amplifier family builds on a 50-year legacy of QSC amplifier dependability and quality while offering an incredible amount of flexibility for business music and paging applications. The available load selector toggles between 4 Ω, 8 Ω, 70 V / 100 V, with a selectable 80 Hz highpass filter is offered on each channel.



featuring

# FlexAmp™

Technology

FlexAmp Technology allows the installer to configure each pair of channels to deliver up to 400 W of total output power in any ratio. This simplifies system design by allowing a single, high-channel count amplifier to meet the needs of virtually any business music system.





# explore the QSC ecosystem



## foreground music support

Some business music installations need strong foreground application support, like for small scale installed stages or portable PA system for special events. Consider pairing the MP-M Series mixer with some larger powered or passive loudspeakers from QSC.

## need more power

When it comes to expansive QSC power amplifier portfolio, trust in our 50-year legacy of reliability. With models designed to support nearly every application, from conference rooms through concerts.



## loudspeaker for every install

The AcousticDesign™ Series SUB/SAT loudspeakers join a rich portfolio of QSC installed full range loudspeakers. System designer can choose from over 50 models, ranging from value oriented to high output performance grade.



# next-level user experience

## Q-SYS™ ECOSYSTEM

Depending on the needs of your installation, you may want to **combine elements of the QSC Premium Business Music Solution with the Q-SYS Ecosystem**. Q-SYS has no equal as an integrated, software-based audio, video and control (AV&C) ecosystem, and enables some of the most versatile AV&C end user experiences on the planet.

In addition to audio processing, paging and distribution, here are just a few capabilities that Q-SYS could add to business music applications:

- Customized user control interfaces & touch screen controllers
- Third-party device control (video switching for displays, environmental controls, room automation)
- Cloud-based remote monitoring and management of multiple Q-SYS installations via **Q-SYS Reflect™ Enterprise Manager (available mid 2019)**
- Support for standard AV network distribution, networked amplifiers, higher channel/zone counts and advanced audio processing and distribution

No matter the project size or scope, QSC has you covered.



Q-SYS Core 110f processor & Q-SYS TSC-80t-G2 touch screen controller, customized with UCI Editor

# loudspeakers

## AcousticDesign™ Series SUB/SAT loudspeakers

The AcousticDesign™ Series SUB/SAT loudspeakers offer unprecedented acoustic performance from a small form factor to enhance the look of any installation. Backed by the QSC legacy of quality and support, this family of loudspeakers supports retail, restaurant, hospitality and other commercial spaces. Even at low volume levels, the AcousticDesign Series SUB/SAT loudspeakers provide exceptional warmth and crystal-clear highs for remarkable acoustic ambiance.

**Mix-and-match:** Subwoofers and satellite loudspeakers have the same balanced sonic characteristics that allow for interchangeability between enclosure types.

**Easy to install:** Minimize installation and commission labor costs with built-in high pass satellite outputs, screw-down Euro block connectors, snap-fit magnetic grills (for ceiling-mount and pendant-mount loudspeakers), and X-Mount Mini™ wall-mounting system (for surface-mount models).

**Optimize performance and deployment:** Get the best sonic performance from your system in seconds by deploying Intrinsic Correction™ voicings, available via MP-M Series mixers and the Q-SYS™ Ecosystem, including CXD-Q Series amplifiers.

<b>AD-S.SUB / AD-S.SAT</b>	surface-mount
<b>AD-C.SUB / AD-C.SAT</b>	ceiling-mount
<b>AD-P.SUB / AD-P.SAT</b>	pendant-mount



AD-P.SUB / AD-P.SAT  
pendant-mount loudspeakers



AD-S.SUB / AD-S.SAT  
surface-mount loudspeakers

AD-C.SUB / AD-C.SAT  
ceiling-mount loudspeakers



# NOTABLE HOSPITALITY PROJECTS



ROUTE 66 HOTEL & CASINO



TALKING STICK RESORT



W HOTEL SCOTTSDALE



CASINO ARIZONA



CAZ SPORTS GRILL & BAR