

UCINE™

LED Cinema Screen Powered by Unilumin and GDC Technology



Space saving
(no projection booth)



4K@96FPS



Brightness
up to 300nits



Brightness
uniformity



Infinity:1
contrast

The UCine LED Cinema Screen offers a direct view display that eliminates the need for a projection booth, which can maximize seating capacity, decrease construction cost, and increase your bottom line, depending upon circumstances affecting the configuration of the space. Powered by its built-in DCI-compliant video processor, the GDC SRC-7500 Integrated Media Block, the UCine LED Cinema Screen can provide unparalleled security for DCP content and precise image processing for enhanced brightness, color, contrast, and gray scale, resulting in clear, vivid, and colorful images.

With a native 4K resolution*, high refresh rate, and multiple brightness modes, the UCine LED Cinema Screen produces ultra-high picture quality with excellent brightness and color consistency. It also offers infinity:1 contrast ratio under an ideal viewing environment exceeding traditional projection systems, and a high gray scale that enhances the richness and vividness of the colors.

The UCine LED Cinemas has a wide range of applications, such as hosting E-sports events, streaming live events, and private cinema screenings.

*Unilumin offers the option of a 2K LED Cinema Screen. See the specifications below.

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Espedeeo delivers an unmatched cinematic experience with leading edge technologies

Revolutionizing the cinema experience

1 Optimizing cinema space and enhancing cinema economics

With the projection booth no longer needed, you can redesign your auditorium to increase seating capacity, which can improve box office revenue, depending upon the configuration of the space and ticket upcharge.



▲ Traditional Cinema



▲ UCine LED Cinema

2 Unmatched security for DCP content

The UCine LED Cinema Screen and its GDC SRC-7500 IMB are fully DCI-compliant and utilize FIPS security protocols, providing a high level of signal transmission security and protection mechanisms. This ensures that the LED screen is secure for displaying encrypted theatrical motion picture content in the digital era.

3 High Frame Rate (HFR)

The UCine LED Cinema Screen can achieve ultra-high picture quality with a native 4K (4,096 x 2,160) resolution. The maximum frame rate for 2D is 96fps, and for 3D is 48fps which has the potential to make the 3D viewing experience less cumbersome by reducing motion blur, providing a smooth picture, and improving the picture sharpness for fast-moving objects.

4 High Dynamic Range (HDR)

The UCine LED Cinema Screen can be viewed in bright environments and supports multiple brightness modes (48nit, 100nit, 150nit, 300nit). This means that bright objects and dark objects can be shown to a high degree of brightness and darkness. Thanks to its high brightness, the UCine LED Cinema Screen greatly improves the quality of the 3D presentation, where insufficient projector brightness is often an issue.

5 High brightness consistency across the screen

The UCine LED Cinema Screen offers high brightness consistency across the entire screen because each pixel is individually lit. Additionally, optical distortion can be eliminated due to factors such as projector placement and image-darkening transitions.

6 Ultra-high contrast ratio

The UCine LED Cinema Screen is a direct view display that has infinity:1 contrast ratio under an ideal viewing environment offering true black color to improve the overall picture quality by reproducing a sharper image, more vivid color, better clarity, and finer details.



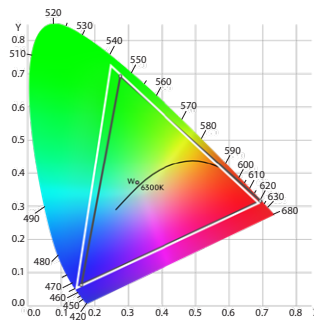
7 High gray scale

The UCine LED Cinema Screen can achieve a gray scale of 16-bit or higher. The higher the gray scale, the richer the color, making the image a lot more vivid.



8 DCI-P3 color gamut

The UCine LED Cinema Screen has a DCI-P3 color gamut offering ultra-high contrast, precise brightness control, and accurate, true-to-life reproduction of the overall image.



9 Compatible with major sound systems

The UCine LED Cinema Screen is compatible with all cinema sound systems using an industry-standard audio interface. It supports 5.1/7.1 surround sound, and DTS:X for IAB immersive audio[^] allowing audiences to immerse themselves with realistic and true cinematic sound for a 360° audio experience.



10 Realistic 3D cinema content

The UCine LED Cinema screen supports 3D content with the optional active 3D system AL-1000U and active ultra-light weight 3D glasses. Moviegoers will be amazed by the elevated realism and superior quality of the active 3D technology.

[^] available as an option in Q3 2023

Cinema installations

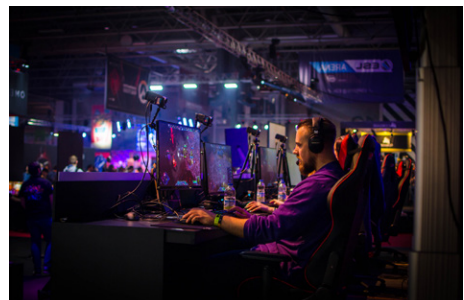


Other applications - more than just cinemas

The UCine LED Cinema can be used for different applications to attract new audiences and generate incremental revenue during times when cinema attendance is typically low.

Hosting E-sports events

The UCine LED Cinema screen can achieve high frame rates resulting in a seamless and immersive viewing experience that is unparalleled in the gaming world.



Streaming live events

The UCine LED Cinema screen's high frame rate, color accuracy, contrast ratio, and 4K resolution make it perfect for live streaming events like concerts, sports games, and theatrical performances, hosted by cinemas.



Private cinema screenings

The UCine LED Cinema can offer private screenings and events for corporate/individual customers. Marriage proposals and wedding ceremonies in a cinema have become popular among young people.



Specifications

| Model | UC-A21 | UC-A41 | UC-A42 | UC-A43 |
|--|--|--------------|------------------------------|------------------------------|
| Pixel Pitch (mm) | 4 | | 3.33 | 2.5 |
| Size (m) | 8.19 × 4.32 | 16.38 × 8.64 | 14.08 × 7.2 | 10.24 × 5.4 |
| Resolution (px) | 2048 × 1080 | 4096 × 2160 | 4224 × 2160 | 4096 × 2160 |
| Cabinet size (mm) | 512 × 1080 | | 640 × 900 | |
| Pixels per panel (px) | 128 × 270 | | 192 × 270 | 256 × 360 |
| Screen and frame weight (kg) | 1800 | 7500 | 5600 | 2400 |
| 2D highest frame rate (fps) | 96 | | | |
| 3D highest frame rate (fps) | 48 | | | |
| Brightness (typical/maximum) | 48nit/300nit | | | |
| Contrast ratio | ∞:1 (under an ideal viewing environment) | | | |
| Viewing angle (horizontal/vertical) | 160°/160° | | | |
| Recommended minimum viewing distance (m) | 4 | 8 | 7 | 5 |
| Rigging form | Fixed | | | |
| Maintenance mode | Rear Service | | | |
| Power consumption per cabinet (W) | 65 (48nits)/ 110 (300nits) | | 31 (48nits)/ 92 (300nits) | 37 (48nits)/ 82 (300nits) |

About Espedeo presented by GDC Technology

Founded in 2006, Espedeo Holdings Limited (“Espedeo”) is a global digital cinema display equipment and solutions provider. We offer premium commercial and home cinema display solutions, cinema 3D system equipment and after-sales support service. We take special pride in the brand and protect your investment with superior customer service, warranties, and technical support. Espedeo product development philosophy aims to strike a balance among quality, simplicity, innovation and cost to help improve the motion picture exhibitors’ operational effectiveness and homeowners cinematic experience.

By strategically cooperating with GDC Technology, the renowned technologist in the cinema industry, Espedeo is confident having hundreds of passionate engineers and software developers to product managers and a vast sales network with 13 offices and 30 local service centers around the world to provide superior customer service.

About Unilumin

Founded in 2004 and listed in Shenzhen in 2011 (stock code: 300232), Unilumin is a leading global provider of LED displays, lighting products, and optical solutions. The company has won the first prize of the National Science and Technology Progress Award, the Manufacturing Industry Champion of the Ministry of Industry and Information Technology. It has continuously maintained the industry's first and world's first position in LED displays and shipping area for many years. As a globally-operating high-tech company, Unilumin has research and development centers in China, Japan, and the United States, with sales and service networks covering more than 160 countries and regions worldwide, as well as the world's largest LED display smart manufacturing base. It has successfully provided services for Fortune 500 companies such as Huawei, Microsoft, Apple, Google, Disney, Facebook, major events and sports events such as the 2022 Beijing Winter Olympics, the 2022 CCTV Spring Festival Gala, the 2020 National Two Sessions, the 70th anniversary of National Day Celebration, FIBA Basketball World Cup, and the Russia World Cup. Unilumin is also credited with the world's largest LED sphere certified by the Guinness World Records, located in Boulevard World, Saudi Arabia, continuously adding colors to a better life.

