

# APPOTRONICS ALPD®


Professional Projector Product Lineup 2026

## Appotronics Corporation Ltd.

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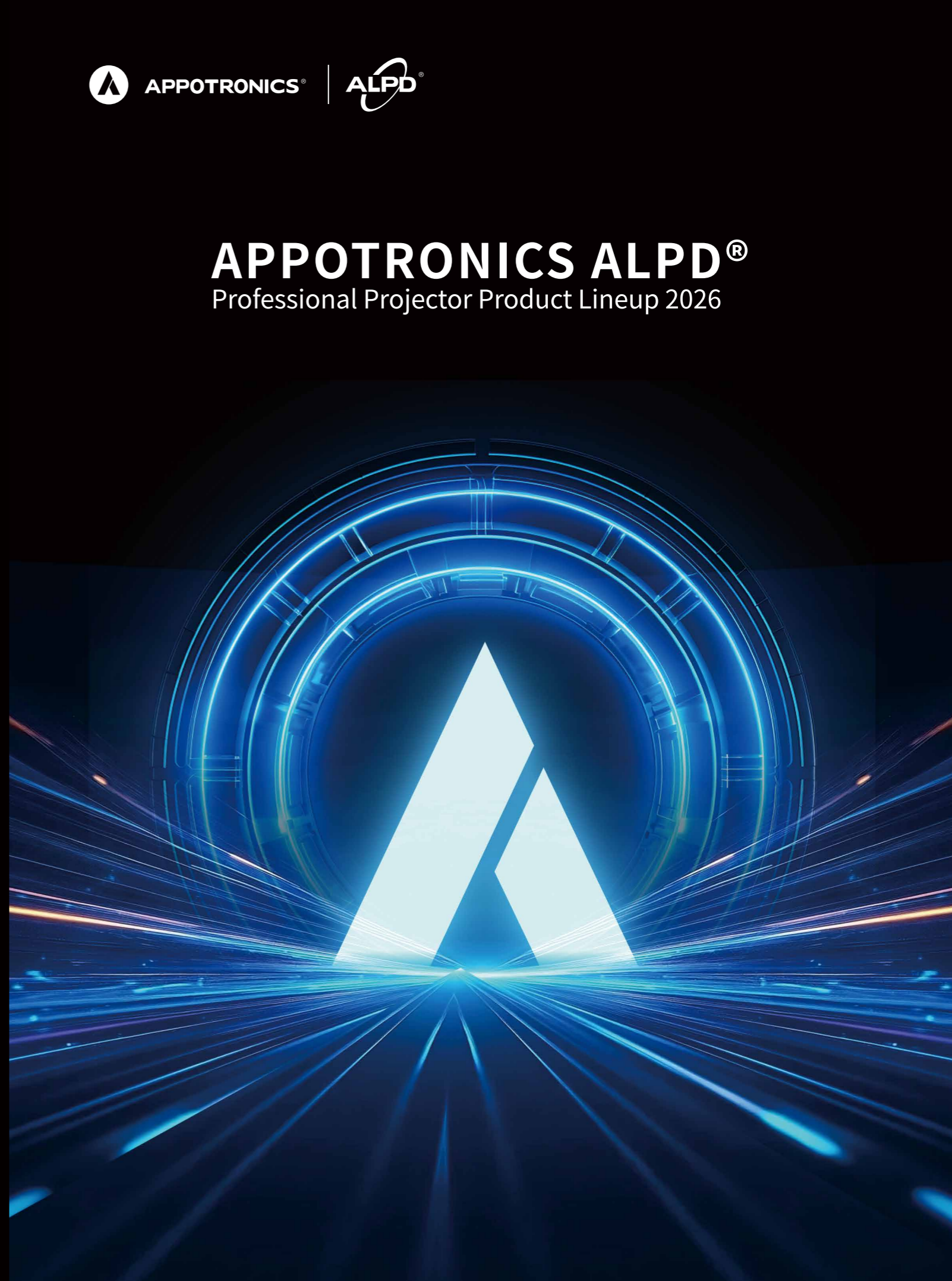
Email: [sales@appotronicsusa.com](mailto:sales@appotronicsusa.com)

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 400 101 9930

Disclaimer:

1. All brightness/contrast values listed are based on ISO2118 standard and are the average value of all shipped products.
2. Time of lifespan listed shall not be used for warranty purposes. Actual replacement time may vary according to the operating modes, environment and other user behaviors.
3. All data listed are based on lab test values. Actual value may differ due to external environments.
4. ©Appotronics Co., Ltd. 2021. DLP, ALPD®, DLP logo and DLP Medallion logo are trademarks or registered trademarks of Texas Instruments.





*New light , New life®*

► About Appotronics

# COMPANY PROFILE

## Appotronics Corporation Ltd.

Appotronics Corporation Limited (Stock Code: 688007.SH), founded in 2006, is a world-leading supplier of laser core components with original technologies and core patents. It is among the first batch of listed companies on the Science and Technology Innovation Board (STAR Market), and also the first STAR Market-listed company in Guangdong Province as well as the world's first listed company in the laser display sector.

In 2007, Appotronics originally invented the ALPD® semiconductor laser light source technology. This technology has created an entirely new type of semiconductor laser

light source, breaking through the application bottlenecks of core laser display components and imaging solutions in the display field. It has since become the mainstream technology in the laser display industry and been widely applied in areas such as automotive, cinema, home use, engineering, and commercial education. Particularly in the automotive optics field, the company has achieved rapid breakthroughs and secured cooperation with a number of internationally renowned automobile manufacturers.


Meanwhile, as laser core technologies continue to integrate with the latest technologies like human-computer interaction, intelligent recognition, the Internet of Things (IoT), cloud

platforms, and big data, Appotronics has proactively completed forward-looking layouts in emerging application fields such as artificial intelligence (AI), augmented reality (AR), and intelligent robots. It has also carried out in-depth cooperation with many well-known global brands and institutions.

Up to now, Appotronics has been recognized as a National High-Tech Enterprise and a National Intellectual Property Demonstration Enterprise. It has also been included in the STAR 100 Index and won numerous honors such as the China Patent Excellence Award, Golden Bull Technology Innovation Award, and many other honors.


### What is ALPD®?

Advanced Laser Phosphor Display technology, is used for image display based on laser-excited phosphor materials and multi-color lasers.




**Over 2900 Patents Awarded Worldwide**

Covering USA, Japan, Korea, China and other countries.



**Appotronics Invented ALPD® Laser Display Technology**



**Cited Over 650 Times**

The essential underlying technology patents of Appotronics have been frequently cited throughout the industry

### The Evolution of ALPD® Laser Display Technology

From ALPD 1.0 to ALPD®5.0, Appotronics continues to innovate and upgrade, bringing not only the advantages of high brightness, good color and no scattering, but also the level of technology and industry.



**Wider Spectrum**  
(ALPD® 5.0 covers 120% of Rec. 2020)



**Higher Contrast**  
(Beyond cinema standard)



**Higher Light Efficiency**  
(30% increase in efficiency then ALPD® 3.0)

\* Based on data from the National Institute of Film Technology Quality Inspections and Appotronics Lab.

| ALPD® 1.0  | ALPD® 2.0   | ALPD® 3.0   | ALPD® 4.0  | ALPD® 5.0   |
|--|---|---|--|---|
|                                 |  |  |    |    |
| <b>Blue + Red + Green</b>  |   |   |  |   |
| Appotronics introduced its revolutionary ALPD® technology in 2007, awarded fundamental patent in the US and China. | Launched in 2010 for laser TV products.   | Launched in 2015 based on Duo Laser + Phosphor solution.                            | Launched in 2018 to address advanced requirements of cinema customers. Phosphor + RGB Laser solution to uplift the light efficiency for 30%. | Launched in 2022: Wider color gamut, higher luminous efficiency, and more compact size. |

### Appotronics is a leading member of LIPA

Joined the International Laser Projection Association (LIPA) as a leading member. Participated in leading the development of international standards for laser displays.



### Advantages of ALPD®



#### High Efficiency • Eco Friendly

ALPD® laser light source has been used for 316 million hours in cinemas throughout China over the past six years, saving 568 million kWh of electricity, equivalent to reduction of approximately 0.49 million cubic meters of CO2 emissions.



#### High Contrast

High light output beyond that of theater quality.



#### High Brightness

The ALPD® system has achieved world-leading brightness, producing 34,000 lumens. High efficiency yields high brightness.



#### High Reliability

All systems proven in mission-critical cinema environments.



#### Wide Spectrum

DCI Cinema-level color performance ALPD® Covers 120% of Rec.2020



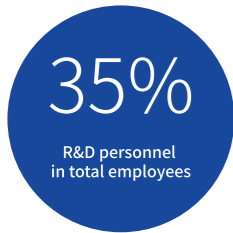
#### Longer Life Span

With the high efficiency of phosphor, ALPD® has solved the life span and cost challenges associated with green lasers.

# Product Features

## Bringing Together Global Top Talents

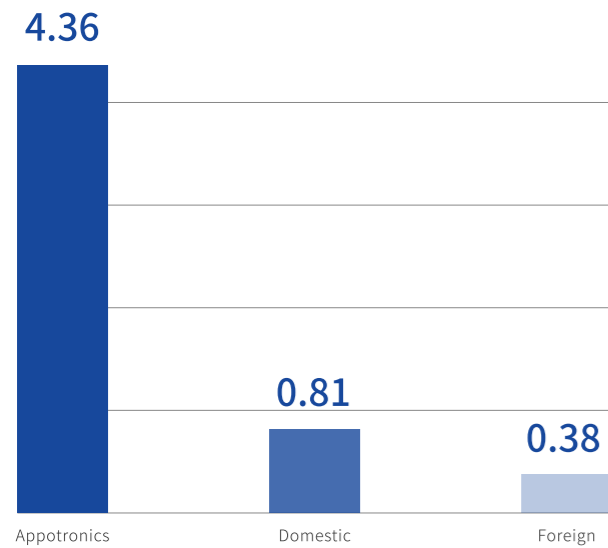
Our core R&D team spearheaded by international leaders in laser display and automotive optics has attracted R&D workers from well-known domestic and foreign universities, covering disciplines such as optics, electronics, materials, physics, mechanical design and precision manufacturing.



## Strengthen Patent Protection and Be a Founder of Industry Standards

Appotronics, as the inventor of the laser phosphor technology, owns over 2900 patents worldwide. It is well ahead of the industry giants when it comes to patent layout. Among the first 25 companies listed on the SSE STAR Market, Appotronics ranks 1st in both innovation and patent restraint.

Average citations for invention patents



Source: Development Planning Division of China National Intellectual Property Administration

## Pioneer New Application Scenarios

Over 31,000 cinemas worldwide have chosen Appotronics' ALPD® laser light source solutions;

Provide services for projects and clients such as international events, urban light shows, large-scale exhibitions, vocational education and enterprises.

Pioneer new application scenarios such as AR, intelligent robot and aviation display, and gain a foothold in these sectors in advance.

Established cooperation with OEMs, direct suppliers, aviation giants and IoT giants.

Data Resource: AVC Revo

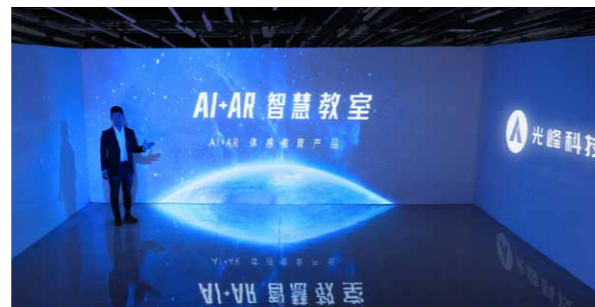
No.1 in the industry of cinema laser service



No.1 in the industry of installation laser projection



No.1 in the industry of education laser projection

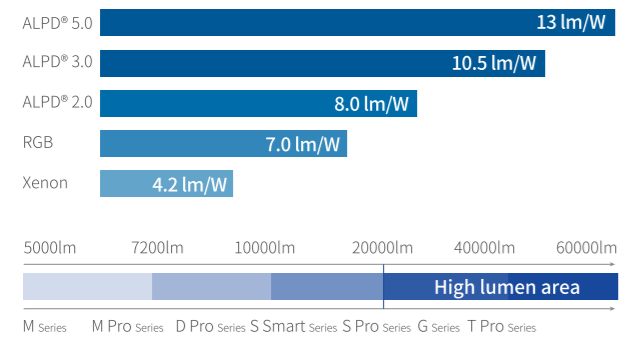


# Appotronics Professional Projectors

| M Pro Series | D Pro Series | S Smart Series | S Pro Series | T Pro Series | Projection Distance |
|--------------|--------------|----------------|--------------|--------------|---------------------|
|              |              |                |              | AL-TU34KA    | 60000lm             |
|              |              | NEW            |              |              | 40000lm             |
|              |              |                |              | AL-SK20KAP   | 20000lm             |
|              |              |                |              | AL-SK17KAP   |                     |
|              |              |                |              | AL-SU20KAP   |                     |
|              |              |                |              | AL-SU17KAP   |                     |
|              |              | NEW            |              |              | 10000lm             |
|              |              |                |              | AL-DU935A    |                     |
|              |              |                |              | AL-DU835A    |                     |
|              |              |                |              | AL-DU735A    |                     |
|              |              |                |              | AL-DU635A    |                     |
|              |              |                |              | AL-MK750A    |                     |
|              |              |                |              | AL-MK650A    |                     |
|              |              |                |              | AL-MH750A    |                     |
|              |              |                |              | AL-MH650A    |                     |
|              |              |                |              |              | 7200lm              |
|              |              |                |              |              | 5000lm              |

### High Brightness

Appotronics DLP® installation machines are equipped with the latest ALPD® laser display technology. Brightness ranging from 5,000 to 34,000 lumens. ALPD® has much higher efficiency than other light sources and higher efficiency yields high brightness.



### Compact and Light Weight

Appotronics projectors are built tough, small form factor and weighs, for easy shipping, lifting and installation.



### Go beyond HD Image Quality

Appotronics comprehensive laser projectors lineup includes 1080P, WUXGA and 4K resolutions, so you can experience the most intricate details.

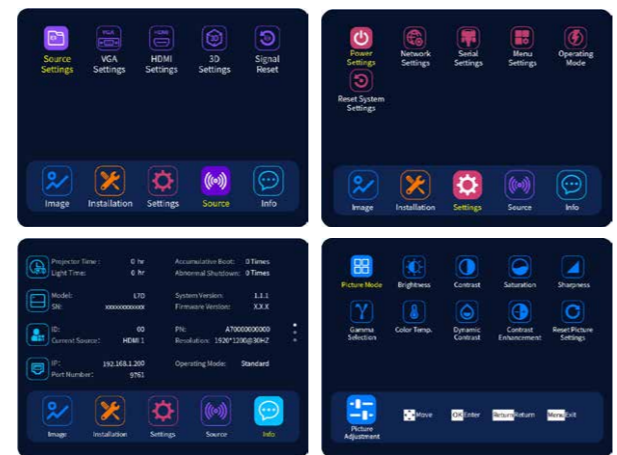


### Intelligent APOS and APCS

#### APOS (Appotronics On-screen Display)

Appotronics' upgraded on-screen display system offers comprehensive functions, unified operation and easy adjustment.

Thanks to this user-friendly menu, installation and adjustment will be more visual, quick and convenient.



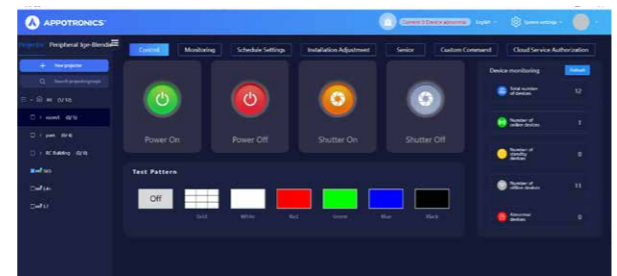
#### APCS (Appotronics Projectors Control System)

APCS is a platform for projector operation and maintenance, monitoring management and interconnection management that provides users with a wide range of application scenarios.

Professional APCS platform has free app for apple, android and harmony, as well as Appotronics Projector Web UI.

Professional APCS platform offers daily management, control, adjustment, monitoring and diagnosis of multiple projectors.

Professional APCS platform gives you unprecedented connectivity options that make it easier and faster to maintain equipment and resolve projector issues over a network.



### Red Ratio >22%

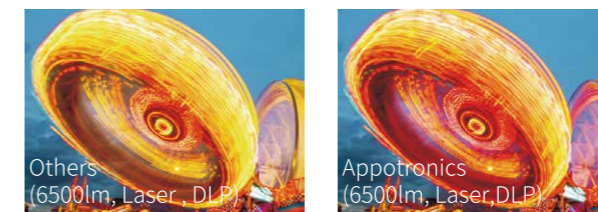
The red ratio of most DLP® laser projectors stays poorly at around 7%, resulted in gloomy red color reproduction.

Appotronics S Pro Series installation projectors have over 22% red ratio.

Appotronics G & T Pro series have over 22% red ratio and are capable of producing richer colors, more saturated and true-to-life pictures.

TI Color Ratios Recommendation

|              |        |        |         |       |         |        |         |
|--------------|--------|--------|---------|-------|---------|--------|---------|
| Color Ratios | Good   | >10%   | >40%    | >3%   | >43%    | >13%   | >80%    |
|              | Medium | 10%-6% | 40%-30% | 3%-1% | 43%-31% | 13%-7% | 80%-36% |
|              | Fail   | <6%    | <30%    | <1%   | <31%    | <7%    | <36%    |



Red Color Ratios=6~7%

Red Color Ratios>20%



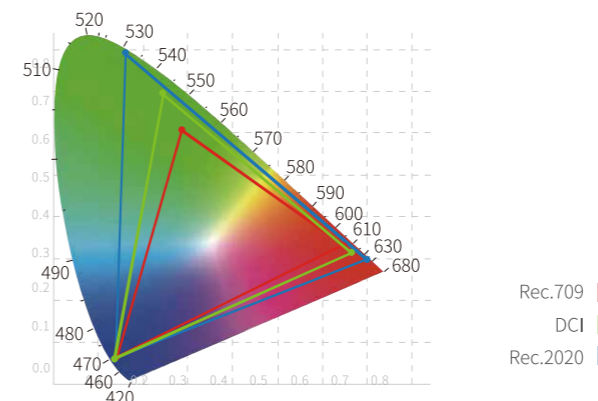
Color Cast



Natural Skin Tone Colors

### Wider Color Space

Appotronics projectors covering 120% Rec.709, 95% DCI-P3 colour gamut, exceeds cinema color space standards, provides extraordinary picture quality.



Others (Deviated from Rec.709) "Orange red"

Appotronics (100% coverage of Rec.709) Perfect color reproduction



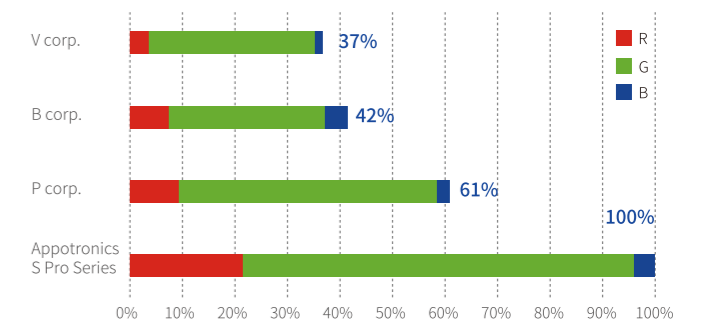
### 100% Color Brightness

Color brightness is a key indicator to determine the performance of displays. Lower the color brightness, lower color reproducing capability a projector will have under the same brightness. It provides an important standard for consumers to evaluate the color performance of their projectors. 100% Colour Brightness results incredible brightness, color accuracy and detail.

Appotronics innovatively applied RGB Primary Colors on 1DLP® systems to achieve 100% Color Brightness (S Pro series).

Appotronics' G & T Pro series 3DLP projectors which have 100% color brightness, can accurately reproduce the true colors of the input signals, and projects a clearer, more vivid picture, which is able to bring users a more exciting visual experience.

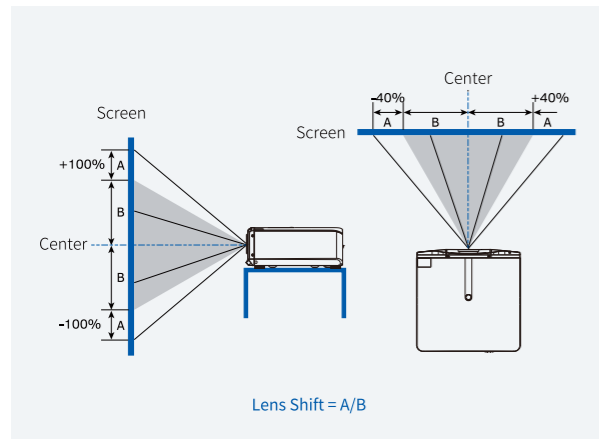
Color Brightness Observation of Laser Installation Projectors



► Easy to Install

**Wide-range Powered Lens Shift**

Wide range of powered lens shift (Vertical ±100%, Horizontal ±40%). Powered lens shift/zoom/focus.



**Optional Lens**

Full range optional lens from short-throw to telephoto lens, with wide range powered lens shift, are provided to handle all different kinds of installation environments.



► Cinema Level Reliability

**ALPD® is a proven technology in mission-critical situations, including digital cinemas and command centers.**



More than 31000 cinemas choose ALPD® laser cinema solutions.



The 1st 20000lm DCI ALPD® cinema projector was put in service July 10th, 2014 and has amassed more than 10 years of use since.

**360° Installation**

Projector can be oriented in any position, 360° in both horizontal and vertical axes.

360° Vertical  
360° Horizontal

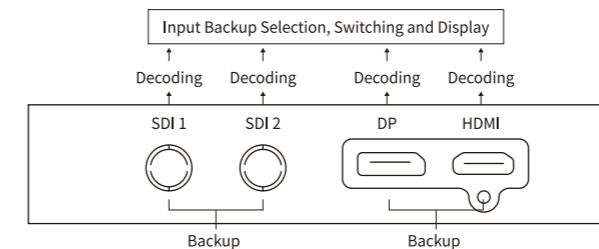
**All Products Support 3D-sync**

3D-sync to support infrared 3D and DLP-Link 3D.

**Light Source Backup & Input Signal Backup**

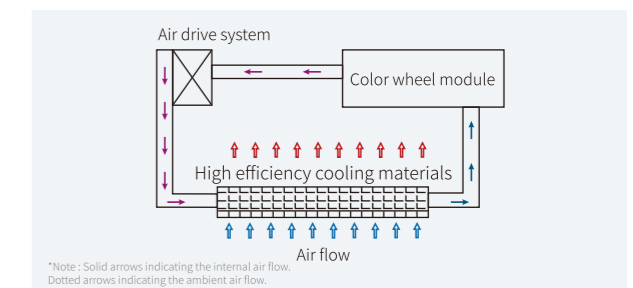
**Multiple light source backup** — Multiple laser module backup design, a single laser module stop working, the whole machine brightness attenuation is controlled within 4%.

**Dual-channel Input Signal Backup** — The main channel will seamlessly switch to the backup channel after signal abnormality to ensure high reliability of the system.



**Patented Inner Loop Color Wheel Cooling System** [the patent number: CN201521096661.5](#)

Efficient control over the working temperature of the color wheel and motors provides higher stability and longer life span.



**Built-in Geometric Correction and Edgeblending**

Advanced geometric correction enables projection onto spherical, cylindrical and other non-flat surfaces.

Irregular Screen (Concave, Convex)

**All-sealed Light Engine**

IP5X complete dust-free, filter-free structure.

| Protection Against Objects >2.5mm | Protection Against Objects >1.0mm | Protection Against |
|-----------------------------------|-----------------------------------|--------------------|
| IP3X                              | IP4X                              | IP5X               |



**20,000h Proven Lifespan**

20,000 hours lifespan proven in mission-critical situations, including digital cinemas and command centers.

Durability  
Reliability

# Product Lineup 2026

5000-34000lm



M Pro Series



D Pro Series



S Smart Series



S Pro Series



T Pro Series

# M Pro Series



| Model                              | AL-MK650A   | AL-MK750A                     | AL-MH650A | AL-MH750A |       |
|------------------------------------|---|-------------------------------|-----------|-----------|-------|
| Display Technology                 | DLP*1, DLP Projection System  |                               |           |           |       |
| Panel Size                         | 0.47"DMD  |                               |           |           |       |
| Resolution                         | 3840×2160   |                               | 1920×1080 |           |       |
| Brightness Output <sup>①</sup>     | 6,500lm   | 7,500lm                       | 6,500lm   | 7,500lm   |       |
| Light Source Type                  | ALPD® Light Engine  |                               |           |           |       |
| Light Source Lifetime <sup>⑥</sup> | 20,000h   |                               |           |           |       |
| Contrast <sup>②</sup>              | ≥100,000:1  |                               |           |           |       |
| Uniformity                         | 95%   |                               |           |           |       |
| Display Gamut <sup>⑦</sup>         | Rec.709   |                               |           |           |       |
| Optional Lenses                    | 0.5:1 (manual), 0.7-0.9:1, 1.0-1.6:1, 1.54-2.48:1   |                               |           |           |       |
| Screen Size                        | 80-300"   |                               |           |           |       |
| Geometric Correction               | Vertical & Horizontal Adjustment: V: ±35°, H: ±35°<br>4-Point Keystone Correction, Curved Surface Correction (9 Points), Multi-Point Correction |                               |           |           |       |
| Optical Axis Shift                 | Vertical: ±100%, Horizontal: ±40%, Powered  |                               |           |           |       |
| Input Resolution                   | 4K 60HZ, 1080P 120HZ  |                               |           |           |       |
| Terminal Interfaces                | Video Interfaces: HDMI in ×2; HDMI out ×1; USB-A ×2 (Supports 5V/2A);   |                               |           |           |       |
|                                    | Audio Interfaces: S/PDIF ×1   |                               |           |           |       |
|                                    | Control Interfaces: LAN(RJ45) ×1; RS232(DB9) ×1; 3D SYNC ×2(in/out); 3D IR OUT ×1; USB-B ×1   |                               |           |           |       |
| Power Supply                       | 100~240VAC 50/60Hz  |                               |           |           |       |
| Power Consumption                  | Standard  | ≤550W                         | ≤600W     | ≤550W     | ≤600W |
|                                    | Standby   | ≤0.5W                         |           |           |       |
| Orientation                        | 360°Installation  |                               |           |           |       |
| Noise <sup>⑧</sup>                 | 36dB(Normal Mode)   |                               |           |           |       |
| Structure                          | Measurements <sup>③</sup>   | 460mm×388mm×138mm             |           |           |       |
|                                    | Weight <sup>④</sup>   | 12.5kg(Lens not included)     |           |           |       |
| Working Environment                | Temperature <sup>⑤</sup>  | 0°C~40°C (35°C~40°C ECO Mode) |           |           |       |
|                                    | Humidity  | 10%~85% (No Condensation)     |           |           |       |

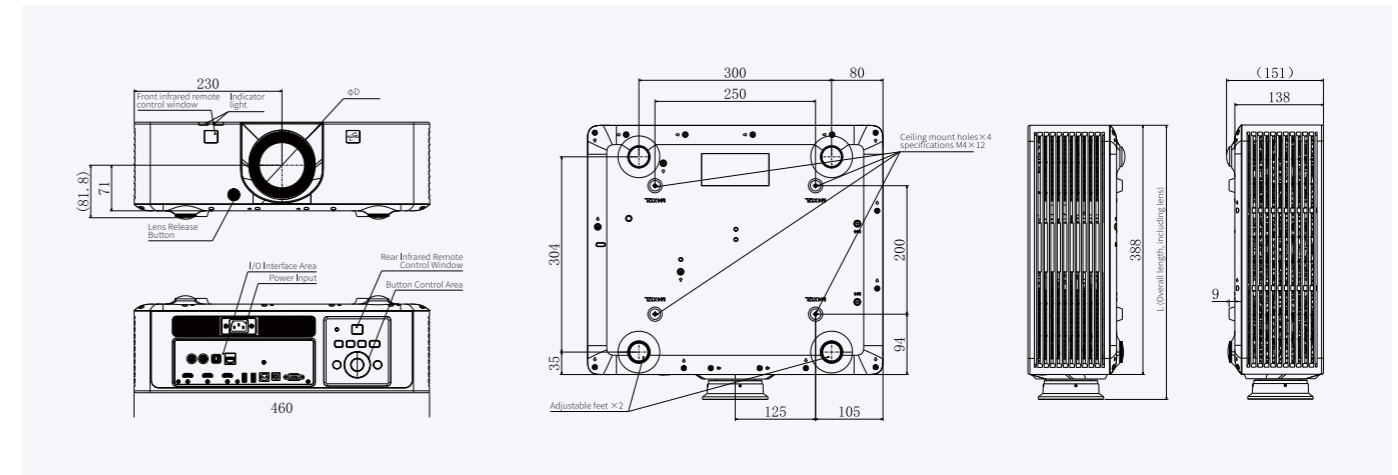
①Based on ISO21118 standard. ② Full white/full black. ③ Not including protruding parts. ④ Including standard lens. Average value may vary from individuals. ⑤ Operation temperature will be 0°C-35°C when working under high altitude condition. Likewise, projection brightness will be reduced 50% if the ambient temperature exceeds 35°C. ⑥ The stated lifespan refers to the approximate usage time from the initial use of the projector until the light source luminosity decreases to 50%, based on accelerated testing results under simulated usage environments. This duration is not a guaranteed figure, as actual longevity may vary significantly depending on usage patterns, environmental conditions, and user habits. The brightness degradation of the projector mainly stems from laser light source attenuation, though it is not equivalent to direct laser source degradation. Operating in low-brightness mode can effectively extend the service life of the laser light source. ⑦ Calculated based on the equivalent area of the color gamut. ⑧ The test data was obtained at an environmental temperature of 25°. ⑨ The goods need to be pre-ordered three months in advance.

## Breathtaking Color Immersive World

Highlight Laser Engineering Projector

### M Pro Series

-   
 6,500-7,500  
Lumens
-   
 ALPD Light Engine  
Red Ratio>12%
-   
 4K  
UHD
-   
 Premium Visual Fidelity  
NO Distortion
-   
 Powered Optional  
Lenses
-   
 Advanced Geometric  
Corrections
-   
 Remote  
Intelligent Control



# D Pro Series



## Excellent Experience D Pro Series

D Pro Series High Brightness Installation Projector



6,300-9,300 Lumens



ALPD® Laser Light Source



WUXGA Resolution



1s Power On/Off



Powered Lens Shift



Support 3D Functions



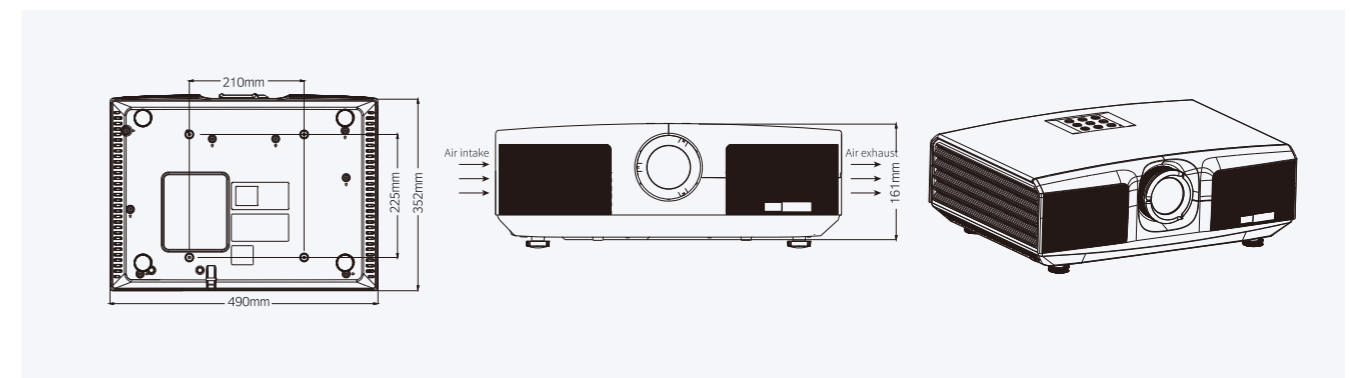
Multi-color Correction Technology



Cinema Level Reliability

| Model                             | AL-DU635A  | AL-DU735A   | AL-DU835A                | AL-DU935A                |
|-----------------------------------|--|---|--------------------------|--------------------------|
| Display Technology                | DLP™x1, DLP™ projection system   |   |                          |                          |
| Panel Size                        | 0.67" DMD  |   |                          |                          |
| Resolution                        | 1,920×1,200, WUXGA   |   |                          |                          |
| Brightness Output <sup>①</sup>    | 6,300lm/6,600lm (Center)   | 7,300lm/7,600lm (Center)                          | 8,300lm/8,600lm (Center) | 9,000lm/9,300lm (Center) |
| Light Source Type                 | ALPD® Light Engine   |   |                          |                          |
| Life Source Lifetime <sup>⑥</sup> | 20,000h  |   |                          |                          |
| Contrast <sup>②</sup>             | 100,000 :1   |   |                          |                          |
| Uniformity                        | 90%  |   |                          |                          |
| Display Gamut                     | REC.709  |   |                          |                          |
| Optional Lenses                   | 0.62:1, 0.8:1, 1.23-1.97:1   |   |                          |                          |
| Screen Size                       | 80" ~ 300"   |   |                          |                          |
| Keystone                          | H+V: ±35°, 4-corner keystone   |   |                          |                          |
| Optical Axis Shift                | Vertical: down 100%, up 60%; Horizontal: ±40%, powered                                 |   |                          |                          |
| Input Resolution                  | 1,920x1,200  |   |                          |                          |
| I/O                               | DVI × 1 / HDMI × 2 / VGA × 1 / RS232 × 1 / M3 × 1 / RJ45 × 1 / USB × 1 / IR 3D out × 1 |   |                          |                          |
| Power Supply                      | 100-240V AC, 50/60Hz   |   |                          |                          |
| Power Consumption                 | Standard   | ≤ 450W  | ≤ 500W                   | ≤ 550W                   |
|                                   | Stand by   | < 0.5W  |                          |                          |
| Orientation                       | 360° installation  |   |                          |                          |
| Noise                             | 35dB (standard mode)   |   |                          |                          |
| Structure                         | Measurements <sup>③</sup>  | (L×W×H) 19.3×13.9×6.3" (490×352×161mm)            |                          |                          |
|                                   | Weight <sup>④</sup>  | ≤28.6lbs(13kg)                                    |                          | ≤30.8lbs (14kg)          |
| Working Environment               | Temperature <sup>⑤</sup>   | 32°F~104°F (0-40°C) 95°F~104°F (35-40°C) Eco Mode |                          |                          |
|                                   | Humidity   | 20%~80% (no condensation)                         |                          |                          |

① Based on ISO21118 standard. ② Full white/full black. ③ Not including protruding parts. ④ Including standard lens. Average value. ⑤ Operation temperature will be set to 0°C-35°C when working under High Altitude Mode. Output of projector will be reduced to 50% if ambient temperature exceeds 35°C. ⑥ The output of the projector will have decreased by approximately 50% around this time. Data from accelerated lab simulations. Actual time may vary according to the operating modes, environment and other user behaviors.



# S Smart Series



| Model                             | AL-SK15KAS  | AL-SK13KAS                | AL-SK10KAS               | AL-SK800A              | AL-SU15KAS               | AL-SU13KAS               | AL-SU10KAS               |       |
|-----------------------------------|---|---------------------------|--------------------------|------------------------|--------------------------|--------------------------|--------------------------|-------|
| Display Technology                | DLP*1, DLP Projection System  |                           |                          |                        |                          |                          |                          |       |
| Panel Size                        | 0.8"DMD   |                           |                          |                        |                          |                          |                          |       |
| Resolution                        | 3840×2400   |                           |                          |                        | 1920×1200                |                          |                          |       |
| Brightness ① Output               | 15000lm/16000lm (Center)  | 13000lm/14000lm (Center)  | 10000lm/11000lm (Center) | 8000lm/8500lm (Center) | 15000lm/16000lm (Center) | 13000lm/14000lm (Center) | 10000lm/11000lm (Center) |       |
| Light Source Type                 | ALPD®5.0 Super Full-Spectrum Laser  |                           |                          |                        |                          |                          |                          |       |
| Life Source Lifetime ⑥            | 20000h  |                           |                          |                        |                          |                          |                          |       |
| Contrast ②                        | ≥100,000:1  |                           |                          |                        |                          |                          |                          |       |
| Uniformity                        | ≥92%  |                           |                          |                        |                          |                          |                          |       |
| Display Gamut ⑦                   | ≥110% Rec.709   |                           |                          |                        |                          |                          |                          |       |
| Edge Blending                     | Horizontal & vertical edge blending   |                           |                          |                        |                          |                          |                          |       |
| Optional Lenses                   | 0.7~0.85:1; 0.85~1.1:1; 1.15~1.5:1; 1.5~2.4:1; 2.4~3.8:1;   |                           |                          |                        |                          |                          |                          |       |
| Screen Size                       | 70~800  |                           |                          |                        |                          |                          |                          |       |
| Geometric Correction              | Support correction of corner, trapezoidal, curved surface and multi-point (up to 33x33 points)  |                           |                          |                        |                          |                          |                          |       |
| Optical Axis Shift                | Vertical: ±100%, Horizontal: ±40%, Powered  |                           |                          |                        |                          |                          |                          |       |
| Signal Interfaces                 | Input Video Interface: HDMI2.0*2(4K/60P), DVI-D*1, DP1.2 (4K/60P), HDBaseT 1.0*1(Optional⑨)<br>3D Syn Signal Interfaces: 3D SYNC in*1, 3D SYNC out*1, IR 3D out*1<br>Dynamic Contrast Syn Signal Interfaces: MULT SYNC in*1, MULT SYNC out *1 |                           |                          |                        |                          |                          |                          |       |
| Control Interfaces                | Ethernet Port: RJ45; Serial Port: RS232; Infrared Extension Cable Interface: Remote IR in/out Debug Port: USB-B   |                           |                          |                        |                          |                          |                          |       |
| Other Interfaces                  | USB Expansion Port: USB-A<br>12V External Power Supply Port: Power 12V=1A   |                           |                          |                        |                          |                          |                          |       |
| Power Supply                      | 100~240VAC 50/60Hz  |                           |                          |                        |                          |                          |                          |       |
| Power Consumption                 | Standard  | ≤1050W                    | ≤800W                    | ≤700W                  | ≤550W                    | ≤1050W                   | ≤800W                    | ≤700W |
|                                   | Standby   | ≤0.5W (ECO Mode)          |                          |                        |                          |                          |                          |       |
| Orientation                       | 360° Installation   |                           |                          |                        |                          |                          |                          |       |
| Noise ⑧                           | ≤40dB   | ≤38dB                     | ≤37dB                    | ≤35dB                  | ≤40dB                    | ≤38dB                    | ≤37dB                    |       |
| Structure                         | Measurements ③  | 538×510×190mm             |                          |                        |                          |                          |                          |       |
|                                   | Weight ④  | 28.5Kg                    |                          |                        |                          |                          |                          |       |
|                                   | Temperature ⑤   | 0°C- 40°C                 |                          |                        |                          |                          |                          |       |
| Working Environment               | Storage Temperature   | -10°C- 60°C               |                          |                        |                          |                          |                          |       |
|                                   | Humidity  | 20%-80% (No Condensation) |                          |                        |                          |                          |                          |       |
| Supplementary documents/materials | Power cord, Remote, Quick Installation Guide, Certification, Warranty card  |                           |                          |                        |                          |                          |                          |       |

①Based on ISO21118 standard. ② Full white/full black. ③ Not including protruding parts. ④ Including standard lens. Average value may vary from individuals. ⑤ Operation temperature will be 0°C-35°C when working under high altitude condition. Likewise, projection brightness will be reduced 50% if the ambient temperature exceeds 35°C. ⑥ The stated lifespan refers to the approximate usage time from the initial use of the projector until the light source luminosity decreases to 50%, based on accelerated testing results under simulated usage environments. This duration is not a guaranteed figure, as actual longevity may vary significantly depending on usage patterns, environmental conditions, and user habits. The brightness degradation of the projector mainly stems from laser light source attenuation, though it is not equivalent to direct laser source degradation. Operating in low-brightness mode can effectively extend the service life of the laser light source. ⑦ Calculated based on the equivalent area of the color gamut. ⑧ The test data was obtained at an environmental temperature of 25°. ⑨ The goods need to be pre-ordered three months in advance.

## Vivid Vision, Detail Precision S Smart Series

Highlight Laser Engineering Projector



8,500-16,000 Lumens



Improved ALPD 5.0 RGBX Full Spectrum Laser



WUXGA, 4K Resolution



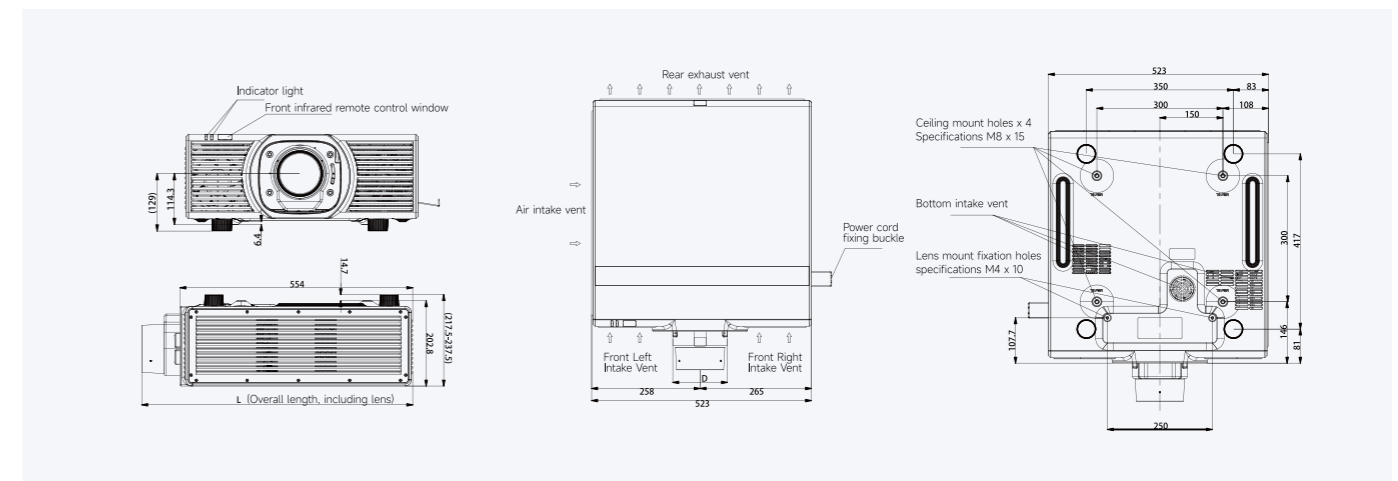
≥110% Rec.709



Super Compact Design



Input Signal Backup



# S Pro Series



## Defining Color Perfection S Pro Series

All-New RGBX® Full-Spectrum Laser Large Venue Projector



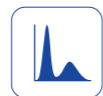
16,000-20,000 Lumens



ALPD® Laser Light Source



WUXGA, 4K Resolution



Wide Color Space 120% Rec.709



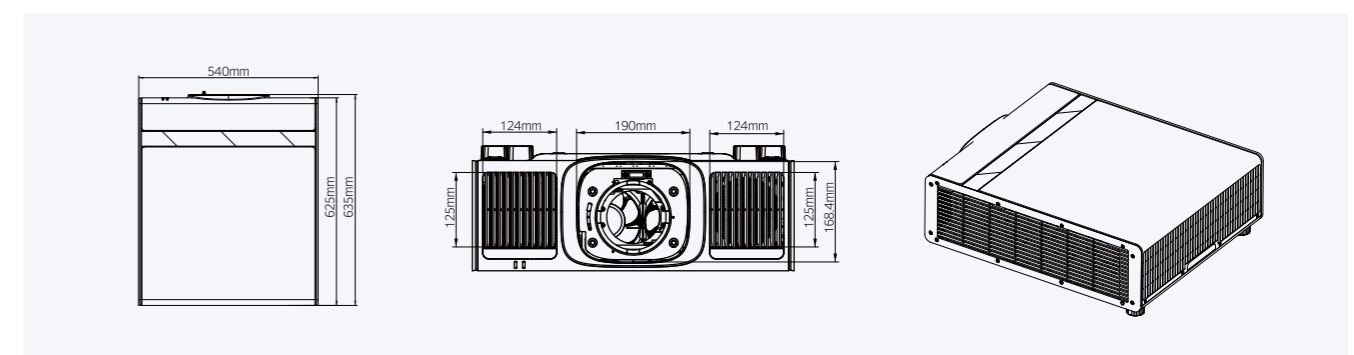
multiple application scenarios

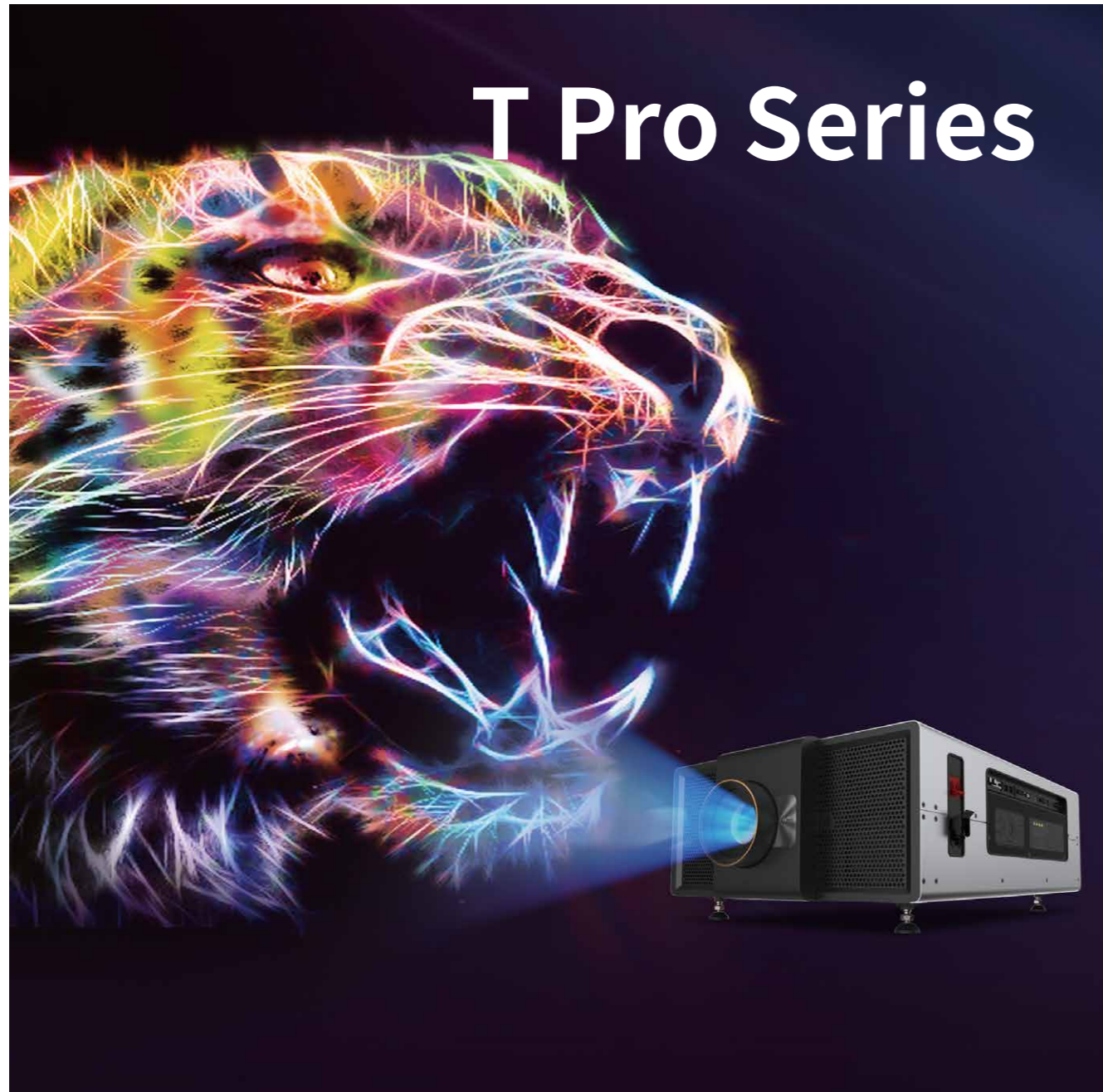


Smart Control Remote O&M

| Model                             | AL-SK20KAP   | AL-SK17KAP                             | AL-SU20KAP                | AL-SU17KAP                |
|-----------------------------------|--|--|---------------------------|---------------------------|
| Display Technology                | DLP™ chip x 1, DLP™ projection system  |  |                           |                           |
| Panel Size                        | 0.8" DMD   |  |                           |                           |
| Resolution                        | 3,840×2,400, 4K  |  | 1,920×1,200, WUXGA        |                           |
| Brightness Output <sup>①</sup>    | 20,000lm/21,000lm(center)  | 17,000lm/18,000lm(center)              | 20,000lm/21,000lm(center) | 17,000lm/18,000lm(center) |
| Light Source Type                 | ALPD®5.0 Super Full-Spectrum Laser   |  |                           |                           |
| Life Source Lifetime <sup>⑥</sup> | 20,000h  |  |                           |                           |
| Contrast <sup>②</sup>             | ≥100,000:1   |  |                           |                           |
| Uniformity                        | ≥95%   |  |                           |                           |
| Display Gamut <sup>⑦</sup>        | ≥120% REC709 ≥100% DCI-P3  |  |                           |                           |
| Optional Lenses                   | 1.1~1.5:1, 1.5~2.4:1, 2.4~3.8:1 more optional lens available   |  |                           |                           |
| Edge Blending                     | Horizontal and Vertical Edge Blending  |  |                           |                           |
| Screen Size                       | 100" ~ 600"  |  |                           |                           |
| Geometric Correction              | Support corrections of corner, keystone, curve, multi-point (up to 33x33 points)   |  |                           |                           |
| Optical Axis Shift                | Vertical: ±100%, Horizontal: ±40%, powered   |  |                           |                           |
| Signal Interfaces                 | Input Video Signal Interfaces: 2HDMI (4K/60P); DVI (1920/1200/60P); DP (1920/1200/60P Optional); HDBASET (1920/1200/60P Optional); 3D Sync Signal Interfaces: 3D syn in; 3D syn out; IR 3D out<br>Dynamic Contrast Sync Signal Interfaces: BNC in; BNC out |  |                           |                           |
| Control Interfaces                | Ethernet Port: RJ45 Serial Port: RS232 Infrared Extension Cable Interface: Remote IR in/out Debug Port: USB-B  |  |                           |                           |
| Other Interfaces                  | USB Expansion Port: USB-A<br>12V External Power Supply Port: POWER 12V1A   |  |                           |                           |
| Power Supply                      | 100~240V AC 50/60Hz  |  |                           |                           |
| Power Consumption                 | Standard   | ≤2000W                                 |                           |                           |
|                                   | Standby  | ≤0.5W                                  |                           |                           |
| Orientation                       | 360° installation  |  |                           |                           |
| Noise                             | 45dB(Standard)   |  |                           |                           |
| Structure                         | Measurements <sup>③</sup>  | (LxWxH) 24.6"× 21"× 7" (625×533×178mm) |                           |                           |
|                                   | Weight <sup>④</sup>  | 77.2lbs (35kg)                         |                           |                           |
| Work Environment                  | Temperature <sup>⑤</sup>   | 32°F ~ 104°F (0-40°C)                  |                           |                           |
|                                   | Storage Temperature  | 14°F ~ 144°F (-10-62°C)                |                           |                           |
|                                   | Humidity   | 10%-80% RH (no condensation)           |                           |                           |








① Based on ISO21118 standard. ② Full white/full black. ③ Not including protruding parts. ④ Including standard lens. Average value. ⑤ Operation temperature will be set to 32°F~95°F(0-35°C) when working under High Altitude Mode. Light output of projector will be reduced to 50% if ambient temperature exceeds 95°F(0-35°C). ⑥ The output of the projector will have decreased by approximately 50% around this time. Data from accelerated lab simulations. Actual time may vary according to the operating modes, environment and other user behaviors.





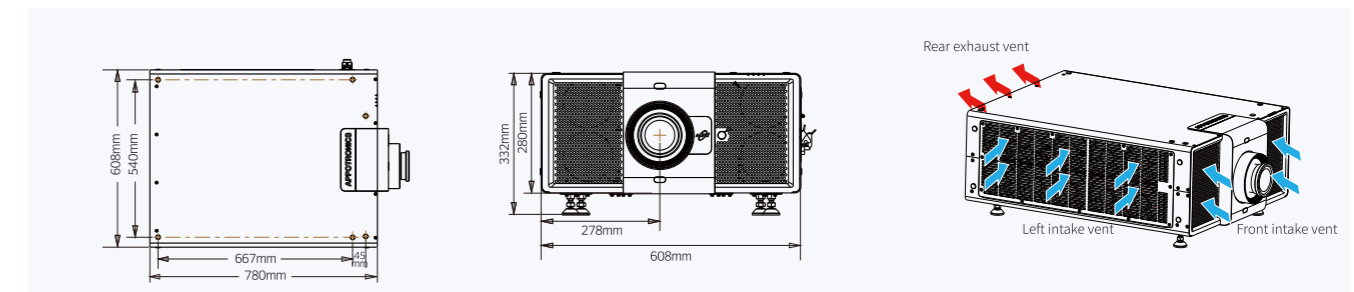
## Superior Performance **T Pro Series**

Upgraded T Pro Series Large Venue Projectors

-   
 34,000lm  
High Brightness
-   
 Improved ALPD 3.0  
Light Engine
-   
 3DLP  
Projection System
-   
 Wide Color Space  
120% Rec.709
-   
 Compact  
Light Weight
-   
 Input  
Backup
-   
 8 Optional  
Lens
-   
 Cinema Level  
Reliability

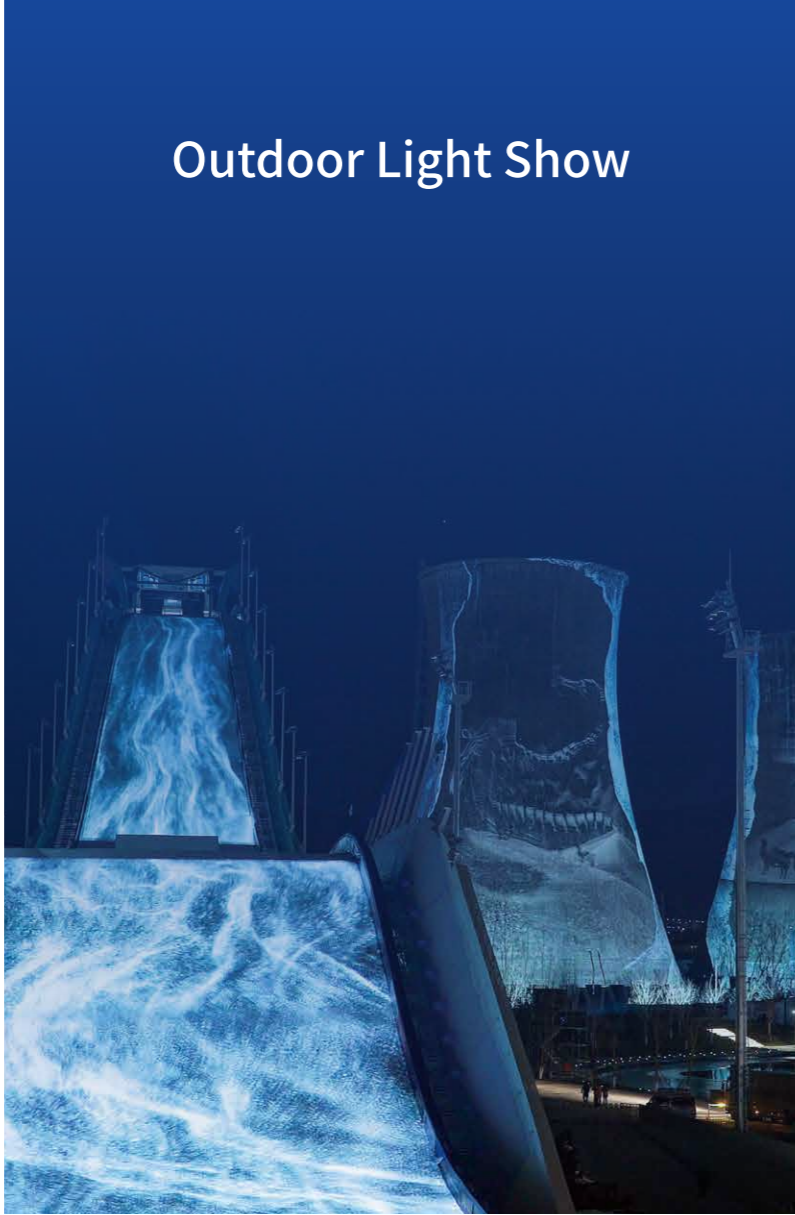
| Model                             | AL-TU34KA  |                                       |
|-----------------------------------|--|---------------------------------------|
| Display Technology                | DLP™ chipx3, DLP™ projection system  |                                       |
| Resolution                        | 1,920×1,200  |                                       |
| Brightness Output <sup>①</sup>    | 32,000lm/34,000lm (Center)   |                                       |
| Light Source Type                 | ALPD® (Laser type: Class1, under IEC60825-1:2014)  |                                       |
| Life Source Lifetime <sup>⑥</sup> | 20,000h  |                                       |
| Contrast <sup>②</sup>             | 100,000 :1   |                                       |
| Uniformity                        | 95%  |                                       |
| Display Gamut                     | REC.709  |                                       |
| Edge Blending                     | Horitonal & vertical edge blending   |                                       |
| Optional Lenses                   | Powered Lenses 0.89-1.29:1; 1.28~1.81:1; 1.6-2.29:1; 2-4:1; 3.66-5.94:1; 4.5-8.2:1   |                                       |
| Screen Size                       | 70"-1000"  |                                       |
| Keystone                          | Vertical & horizontal ±20°, 4 corner and multi-points correction   |                                       |
| Refresh Rate                      | WUXGA 120 fps; 4K decode, 4K 60 fps  |                                       |
| Band Width                        | 600MHz   |                                       |
| Optical Axis Shift                | Vertical: ±90%, Horizontal: ±40%, powered  |                                       |
| I/O                               | HDMI × 1 / DVI-D × 1 / HDBaseT × 1 / VGA × 1 / DisplayPort × 1 / SDI × 2 / RS-232 (IN & OUT) × 2 / Remote (IN & OUT) × 2 / USB × 1 / RJ-45 × 1 |                                       |
| Power Supply                      | 100-240V AC, 50/60Hz   |                                       |
| Power Consumption                 | Standard   | 2800W                                 |
|                                   | Stand by   | <0.5W (ECO Standby)                   |
| Structure                         | Measurements <sup>③</sup>  | (L×W×H) 23.9×30.7×11" (608×780×280mm) |
|                                   | Weight <sup>④</sup>  | 154lbs (70kg)                         |
| Noise                             |  | 49dB                                  |
| Working Environment               | Temperature <sup>⑤</sup>   | 32°F~113°F (0°C~45°C)                 |
|                                   | Humidity   | 20%~80% (no condensation)             |

① Based on ISO21118 standard. ② Full white/full black. ③ Not including protruding parts. ④ Including standard lens. Average value. ⑤ Operation temperature will be set to 0°C~35°C when working under High Altitude Mode. Output of projector will be reduced to 50% if ambient temperature exceeds 35°C. ⑥ The output of the projector will have decreased by approximately 50% around this time. Data from accelerated lab simulations. Actualtime may vary according to the operating modes, environment and other user behaviors.

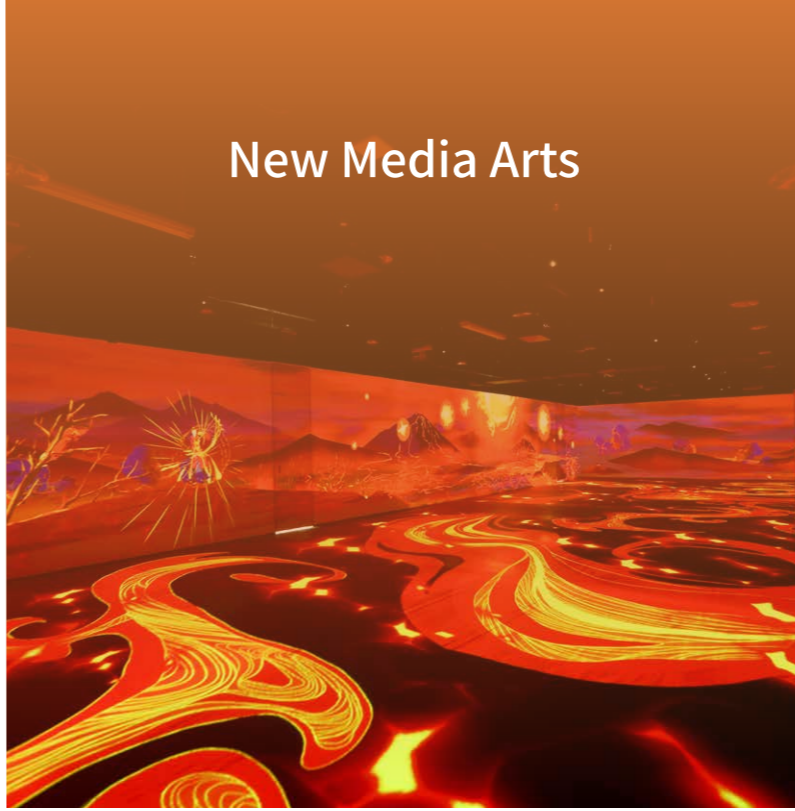


# Applications

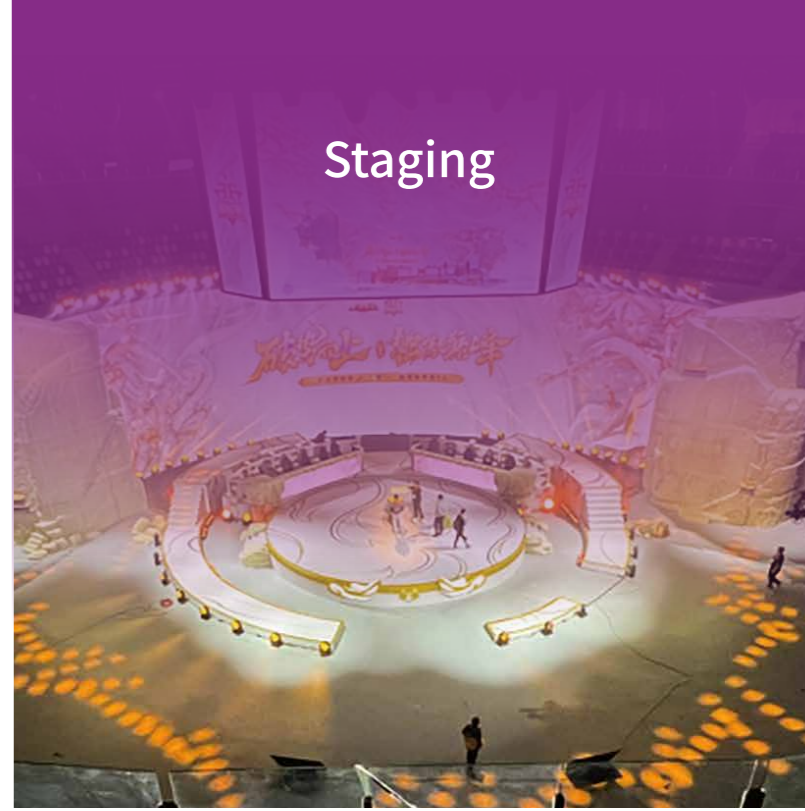
Outdoor Light Show



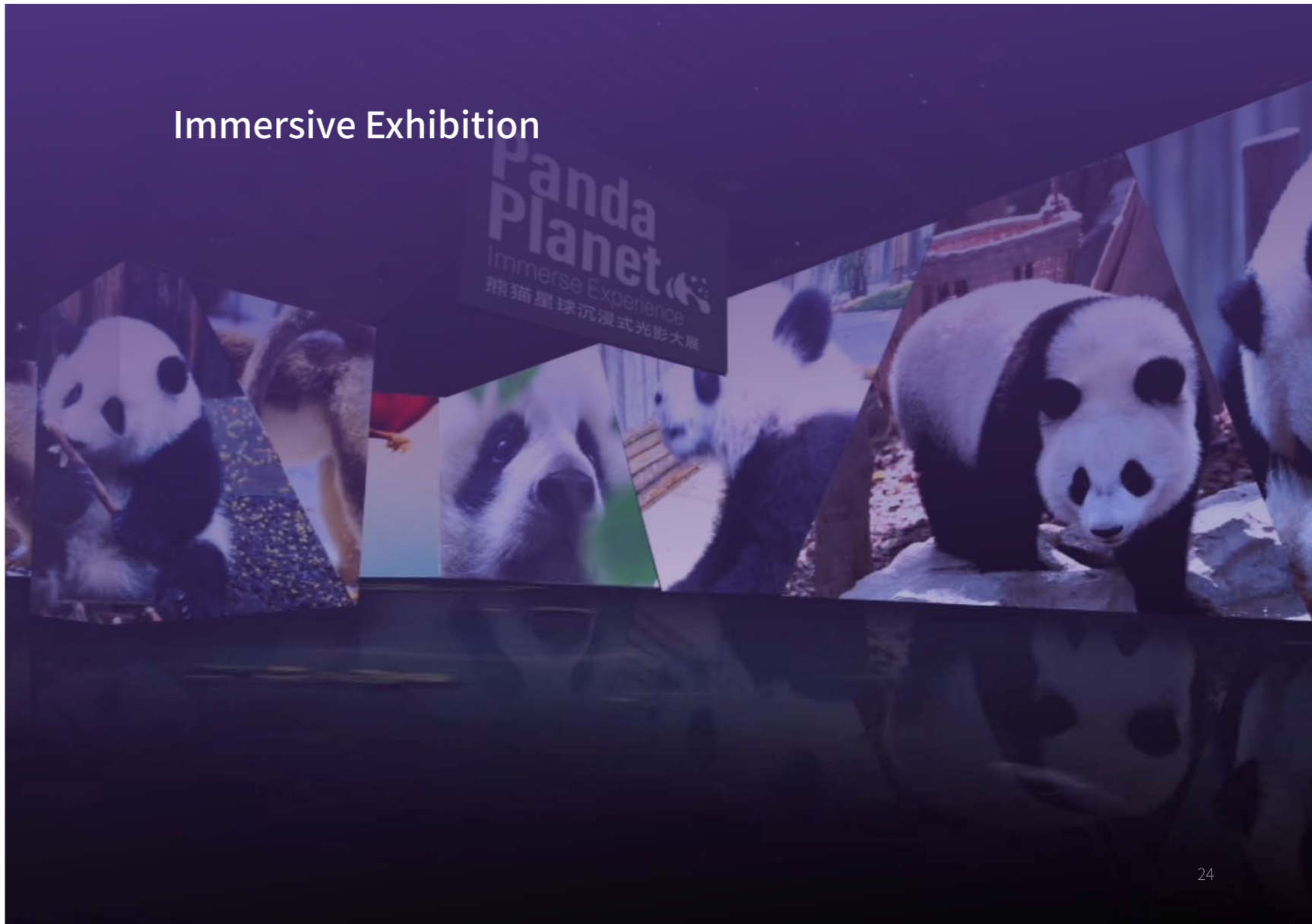
New Media Arts



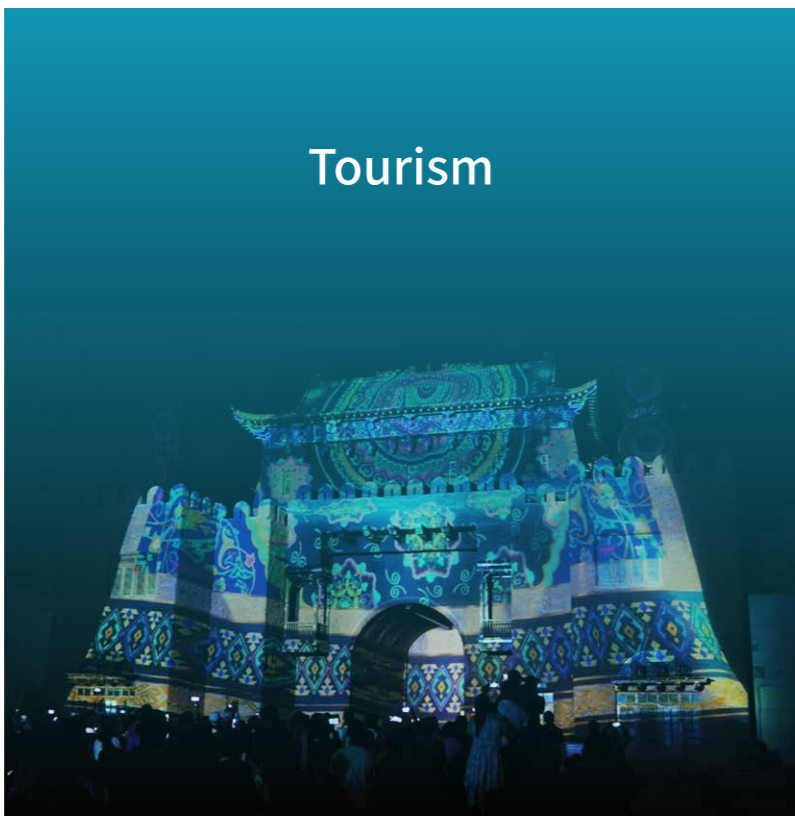
Staging



Immersive Exhibition

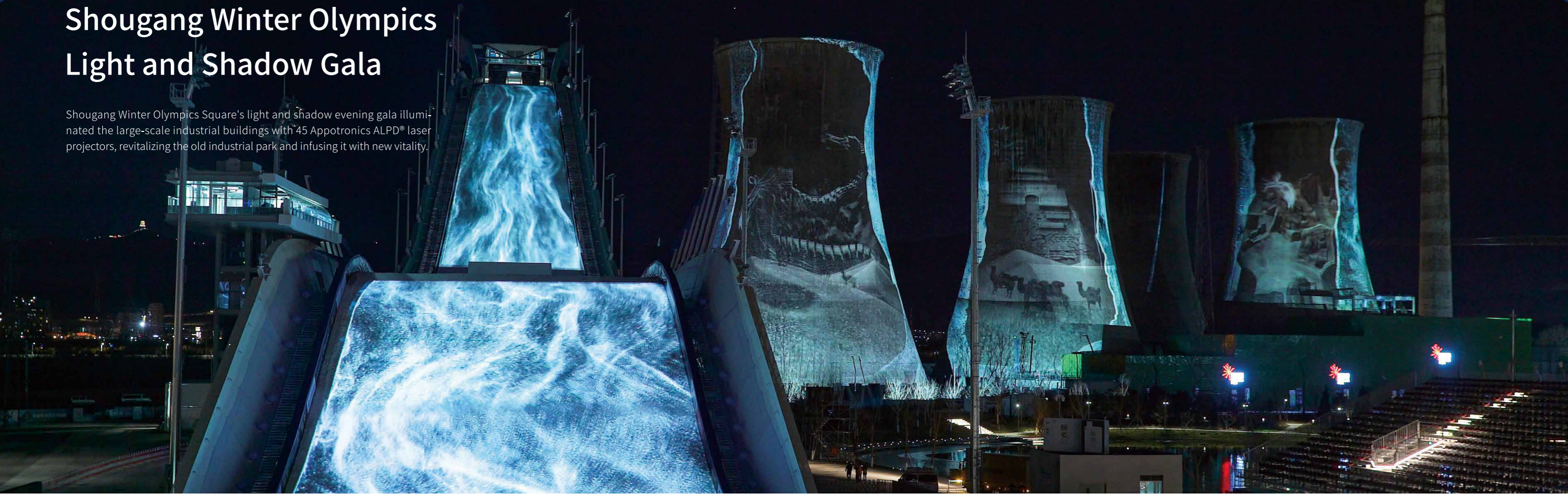


Tourism



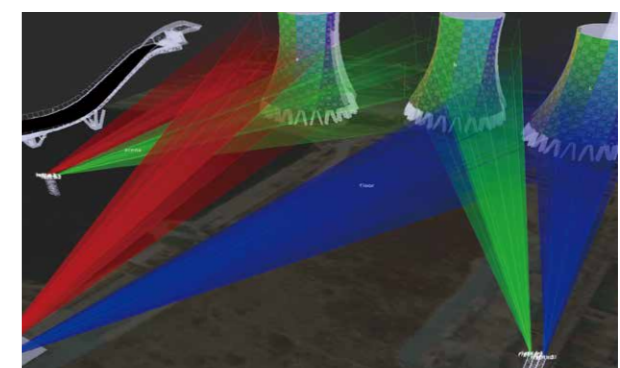
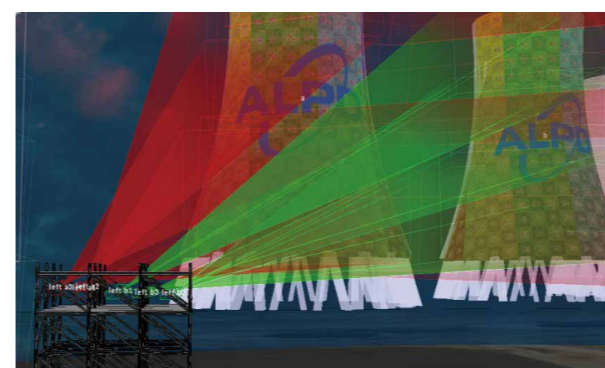
# Shougang Winter Olympics Light and Shadow Gala

Shougang Winter Olympics Square's light and shadow evening gala illuminated the large-scale industrial buildings with 45 Appotronics ALPD® laser projectors, revitalizing the old industrial park and infusing it with new vitality.



## Appotronics Laser Projector Contributes to Winter Olympics

The appotronics laser projector is a compact integrated machine, with a size equivalent to that of competitors' host with the same brightness. In the project implementation, the advantages of the integrated light weight structure were evident, facilitating quick and convenient installation and transportation.



## 14,000m<sup>2</sup> Integrated Laser Projection, Creating a New Landmark

The Appotronics laser high-brightness engineering projection series, employing ALPD® 4.0 light source technology, achieved approximately 30% improvement in light efficiency compared to the previous generation. With 1.38" chips, it effortlessly achieved 60,000 lumens high brightness, delivering breakthrough brightness and 4K exceptional image quality. The laser + fluorescence technology ensured no speckle in the

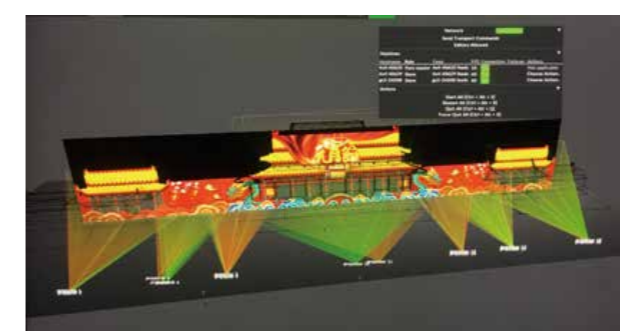
projection, guaranteeing the clarity and quality of the images. Even at a distance of approximately 260m from the farthest projection base station to the cooling tower, the 60,000-lumen projection remained clear, detailed, and vivid in color.

# Lantern Festival Night in the Forbidden City

Apotronics - Taihe Gate 3000m<sup>2</sup> Projection Show



During the 2019 Spring Festival, the Palace Museum organized a grand exhibition called "Lantern Festival Night in the Forbidden City." The exhibition featured a 3000m<sup>2</sup> outdoor laser projection show at the Taihe Gate, using 20 laser projectors based on ALPD<sup>®</sup> laser display technology. The show, dedicated to celebrating the 70th anniversary of the founding of the People's Republic of China, employed cold light sources to prevent damage to cultural relics from excessive brightness.



After multiple on-site surveys, the design included 2pcs 60,000-lumen laser projectors and 18 pcs 13,000-lumen laser projectors, divided into 4 groups projecting from a distance of 65-80 meters from the Taihe Gate. A playback control platform was also set up for 3D outdoor projection show simulation rehearsals.



2019 Spring Festival "Future City"



In 2019, at Shenzhen sub-venue of Spring Festival Gala's, a program titled "Future City" featured a 2000m<sup>2</sup> outdoor projection show created by Appotronics. The show depicted futuristic transportation with cloud rails and buses, showcasing the "future lifestyle" to a national audience.

The Spring Festival Shenzhen sub-venue had high requirements for outdoor display systems, and Appotronics's ALPD® laser projection technology was chosen. The project used 54 ALPD® laser projectors, with 2pcs 60,000-lumen projectors and 18pcs 13,000-lumen projectors, operating at a height of 20m, creating a 3D-mapped future transportation scene.

## "Snow Ruyi" National Ski Jumping Center

On the opening night of the 2nd Hebei Ice and Snow Games on December 21, 2020, ALPD® laser display technology illuminated the "Snow Ruyi" National Ski Jumping Center. Six AL-S4K60 Appotronics engineering projectors were used to create large snowflake patterns in freezing temperatures exceeding -20 ° C. The projectors, known for high brightness, image quality, flexible installation, and reliability, operated safely and stably in the harsh environment. The project team completed the installation and testing in just 10 days, delivering a visual feast to the audience during the opening ceremony.



# Ordos Montai Group Intercooler Tower Landscape Project

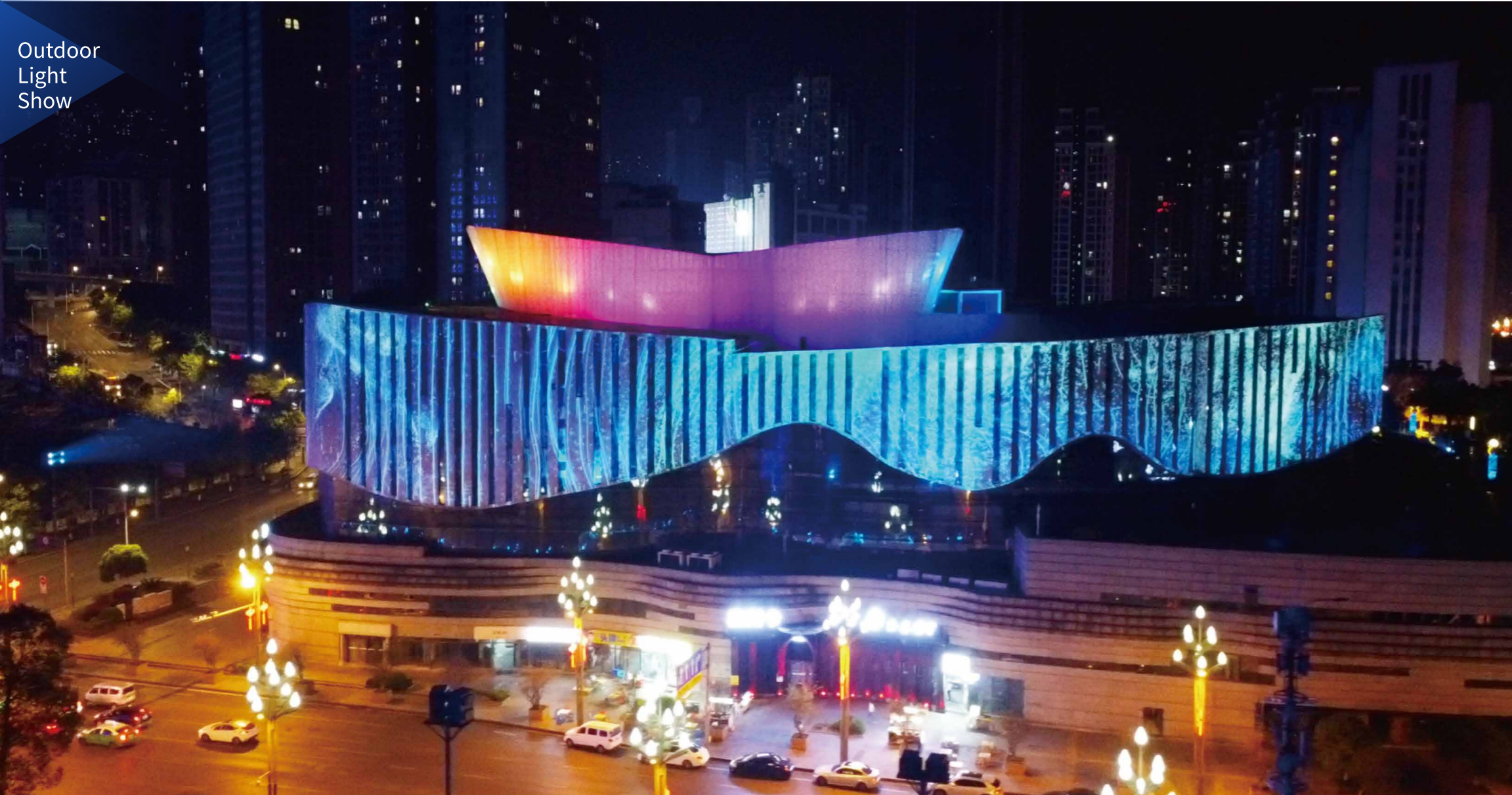
The outdoor landscape project for the indirect cooling tower of the Montai Dongsheng Phase II 2×660MW cogeneration project is located within the Beijiao thermal power plant area in Dongsheng District, Ordos City, Inner Mongolia Autonomous Region. This project encompasses the hardware equipment utilized for the cooling tower and its surrounding areas, including LED floodlights, computer beam lights, laser projectors, sound systems, and various interactive AR elements, all integrated with a control system to create a cohesive three-dimensional illuminated performance area.

The projection area of the cooling tower exceeds 20,000 square meters, with large-scale light and shadow displays on the tower's surface that embody the cultural spirit of the Montai Group, establishing it as a highly recognizable cultural landmark in Ordos. The projection content is diverse, catering to various themes and needs such as corporate promotion, urban scenery, and festive celebrations. It also supports the online collection and playback of news and sports events, delivering

high-quality visuals for different thematic projections. The combination of cultural artistry and practicality in the projection content transforms the Montai Dongsheng cooling tower into the soul of the enterprise, the eye of corporate communication, and a window to the city of Ordos, illuminating the night tourism experience.

The project utilized 30 units of the Guangfeng T-series engineering projectors, with a projection area height of 130 meters and a curved width of 162 degrees. At a projection distance exceeding 200 meters from the cooling tower, the projectors delivered clear images with over 30,000 lumens of brightness, creating a stunning visual display that illuminated the massive cooling tower at night through a combination of sound, light, and shadow. By employing intelligent lighting control and integrating a networked lighting control system, we crafted a captivating and dynamic light and shadow show for the facility.





## Fuling Grand Theatre

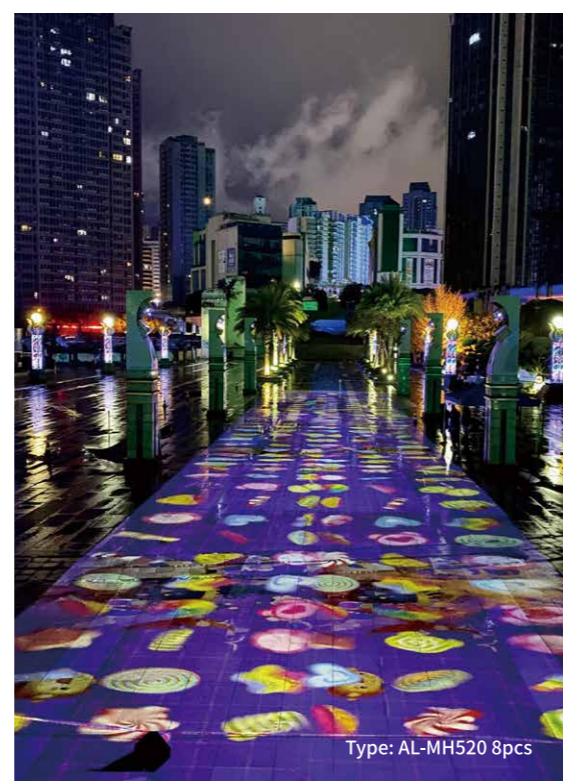
Fuling District is one of the districts under the jurisdiction of Chongqing, located in the central part of the city and at the heart of the Three Gorges Reservoir area, where the Yangtze River and Wu River converge. It serves as a core city within Chongqing's one-hour economic circle, a central city in south-eastern Chongqing, and a key city in the eastern Chengdu-Chongqing economic zone. In recent years, with the rise of urban lighting, the integration of technology and cultural tourism has become a significant trend, enhancing the entertainment life of citizens through digital technology. Nighttime projection light shows have gradually entered our field of vision. Appotronics' various series of high-brightness 3DLP projection solutions effectively address numerous user demands, including image quality, operational costs, and reliability.



Type: AL-SU15K 8pcs



Type: AL-SU15K 6pcs



Type: AL-MH520 8pcs

Nearly 50 units Appotronics Large Venue laser projectors were seamlessly deployed across various areas of the grand theater. The exterior wall display area was created using multiple high-brightness AL-TU33K laser projectors, each boasting 33,000 lumens, which were seamlessly blended and layered to form a cohesive image. Their stable and reliable performance ensured they could operate continuously in high-intensity environments, delivering long-lasting brilliance.

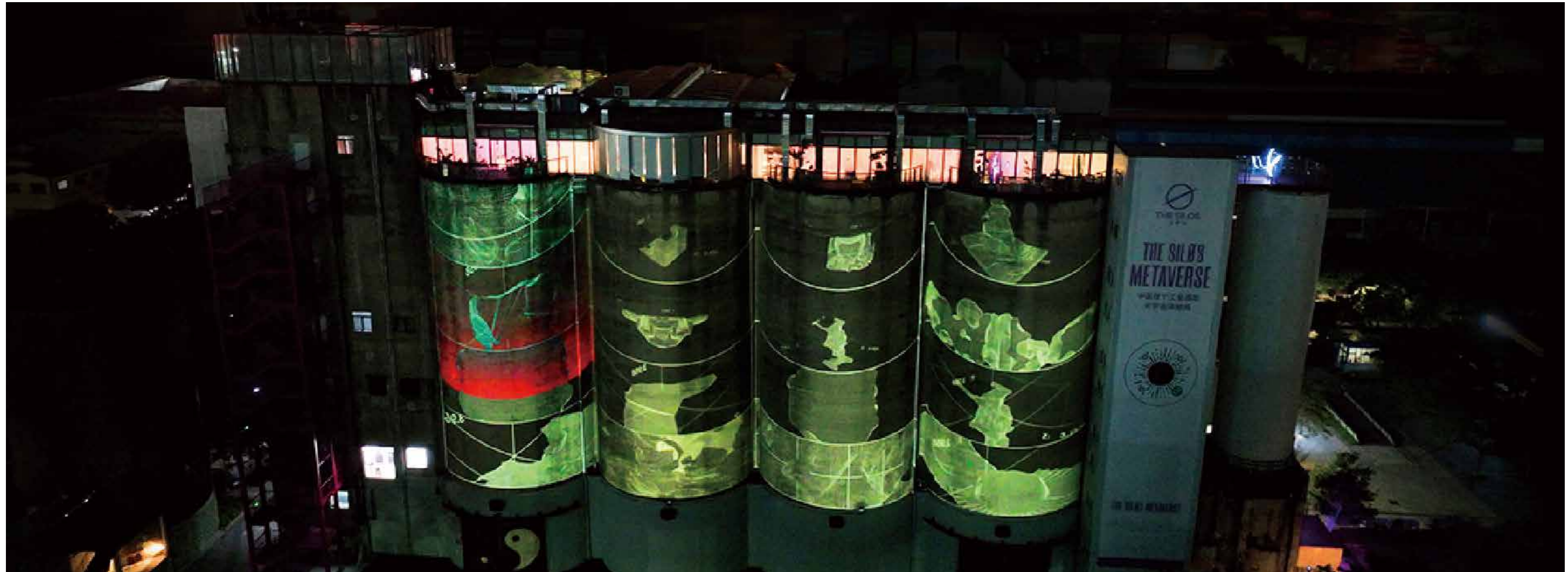
The grand theater's exterior wall vividly tells the captivating story of Fuling, transforming it into a popular social media hotspot and earning widespread praise from local residents.

The Fuling Jinxiu Square light and shadow show project aims to shape the city's soul through diverse cultural elements. By highlighting Fuling's unique cultural characteristics and strengthening cultural heritage, the project enhances the city's brand. It elevates the city's cultural sophistication, boosts its cultural soft power, and creates a comprehensive, multi-layered, and wide-ranging cultural communication framework. This effort not only showcases Fuling's distinctive charm but also solidifies its identity as a city with unparalleled character and appeal.

# Immersive Cultural Art Project – Meet Dunhuang

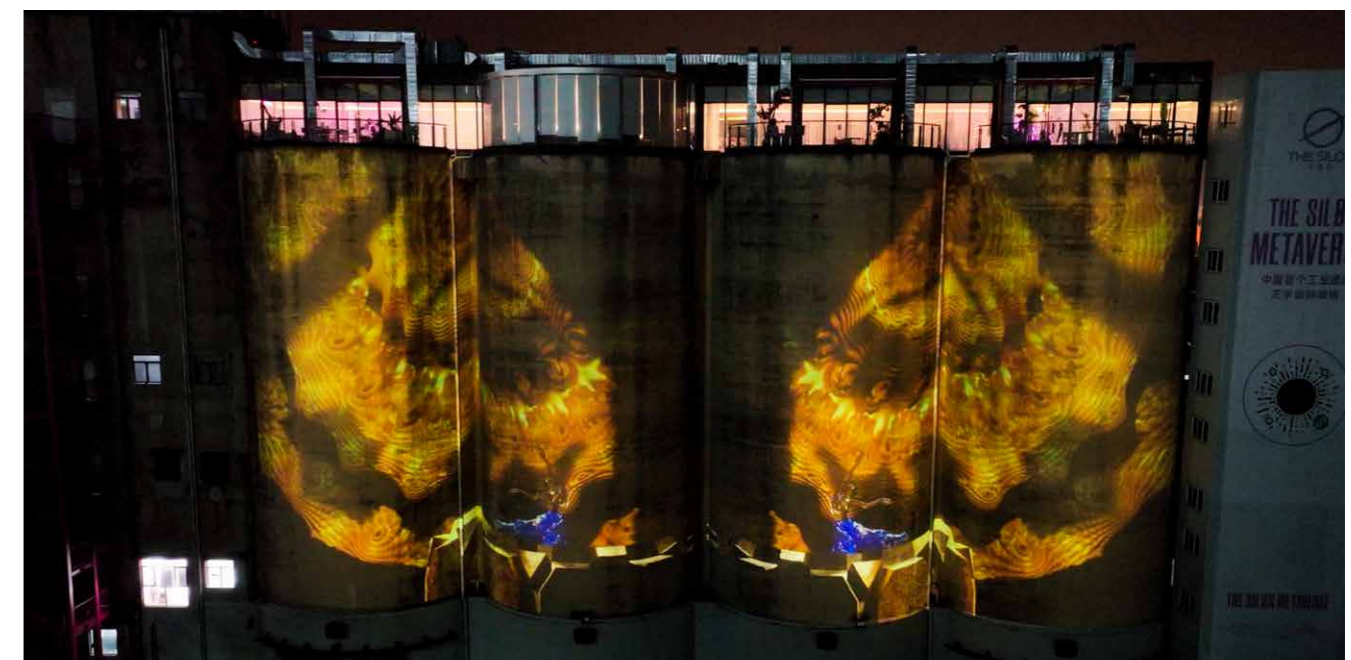


The “Meet Dunhuang” Light and Shadow Art Exhibition used an extensive projection area to create an immersive light and shadow space. 3D light carving digital technology broke through conventional physical space, transforming objects into projected images, presenting a colorful three-dimensional realm. Several units from Appotronics’s S series collaborated to deliver a powerful visual impact to the audience.



## Metaverse Experience Center at the Big Silo

The Shenzhen Metaverse Experience Center at the Big Silo was originally the raw material silo of the Guangdong Float Glass Factory. In 2022, the Big Silo launched its first digital art exhibition, featuring nearly 60 artists from around the world and over 40 artworks. Using cutting-edge technologies like holographic imaging, VR, and AR, the exhibition created a mysterious and fantastical world, immersing visitors in a one-of-a-kind digital experience.



## Fahai Temple Mural Art Museum

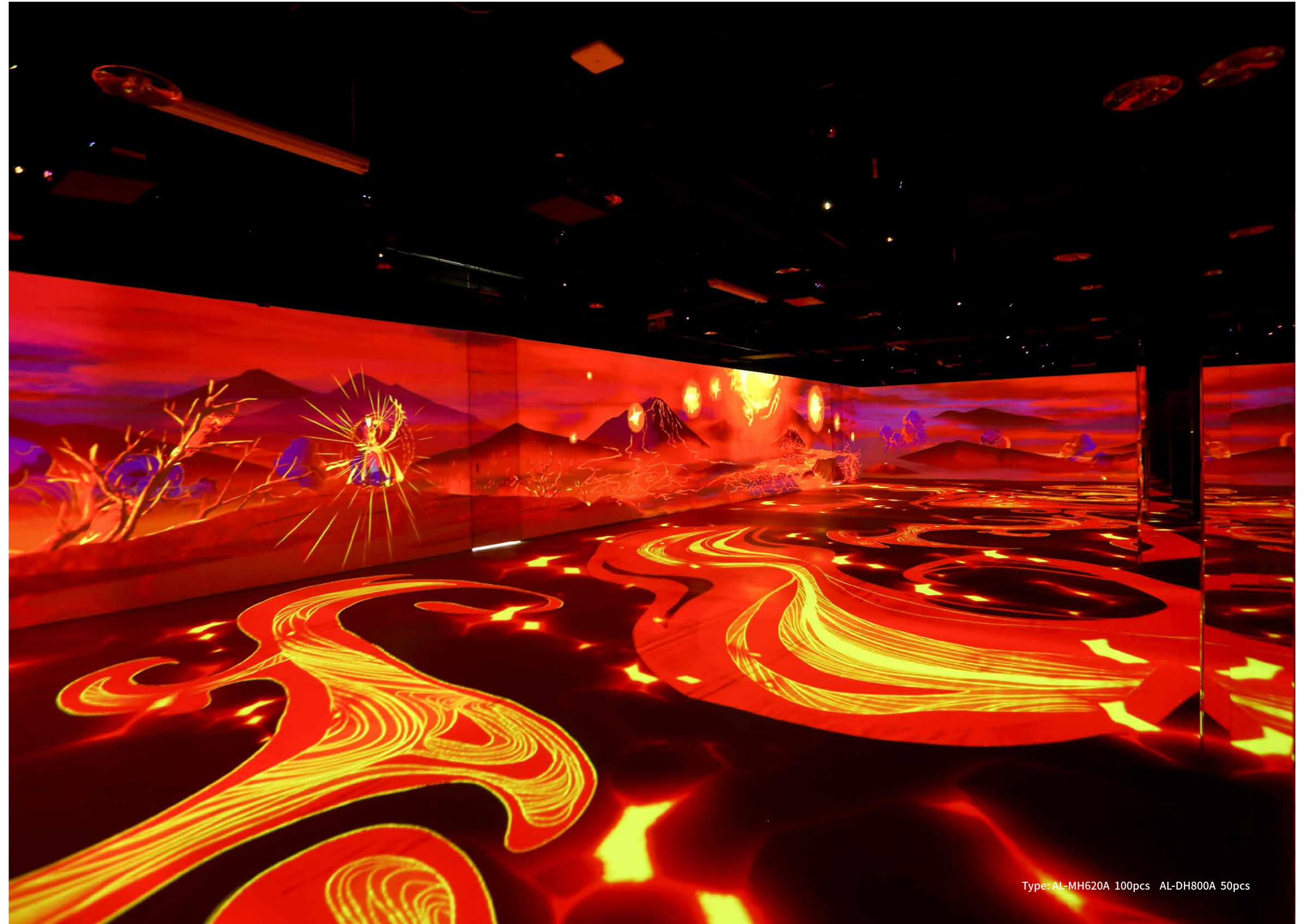
The murals of Fahai Temple are among the most outstanding examples of ancient wall paintings in Beijing, representing the pinnacle of mural art during the Ming Dynasty. While they share equal distinction with the murals of Dunhuang and the Yongle Palace, they also stand as a worthy counterpart to the frescoes of the European Renaissance. Truly, they are a treasure of ancient Chinese art.

Today, a Fahai Temple Mural Art Museum has been built at the foot of Cuiwei Mountain, right next to the temple. Through digital media displays, the museum brings the murals and their stories to life in a richer, more immersive way. This innovative approach breaks through the limitations of time and space, allowing all visitors to experience the artistic and cultural beauty of these ancient masterpieces in a deeply engaging and interactive manner.



## Immersive Digital Art Project

Nearly 150pcs ALPD® laser display projectors, combined with dynamic capture devices, presented an art creation jointly developed by well-known domestic academic institutions, cultural IP, and artists. The laser projection created large-scale visual displays and a modern visual experience with the fusion of sound, light, and shadow, providing the audience with an immersive sensation.



Type: AL-MH620A 100pcs AL-DH800A 50pcs

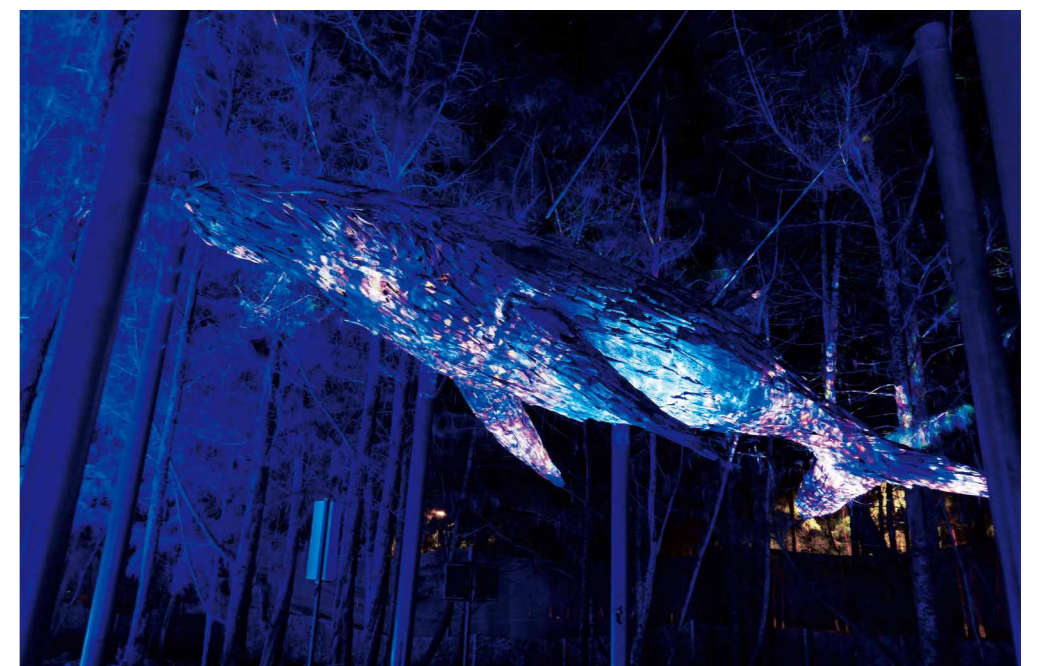
# PLANETARY STORY

## BLUE TEARS

"Planetary Story: Blue Tears" is the inaugural work of the Planetary Story multimedia drama series in China. Inspired by the traditional lifestyle and maritime exploration spirit of the Neolithic indigenous people of Pingtan Island, the creative team has integrated the unique topography of the 500-acre Casuarina ecological forest and coastal granite formations at Tannan Bay. Utilizing advanced technologies such as lighting, sound effects, imagery, interactivity, and NPC performances, this multimedia narrative presents a fantastical tale of Pingtan youth "A Di" and his pirate dog "Yuan," as they embark on a journey to decode the mystery of the blue tears.

The project employs 38 Lightstorm engineering projectors to create 25 fragmented scenes along a 2.2-kilometer dark forest trail, offering a 100-minute guided night experience. Participants engage in 16 immersive human-computer interaction segments, allowing them to feel the enchantment of the forest and sea exploration.

In the final chapter of the adventure, a giant gauze curtain over 100 meters long is erected in the center of the reef-formed Aokou, where panoramic dynamic projections create a dreamlike and stunning coastline. This boundaryless theater seamlessly merges culture, art, and technology, unlocking a surreal journey through the blue tears.





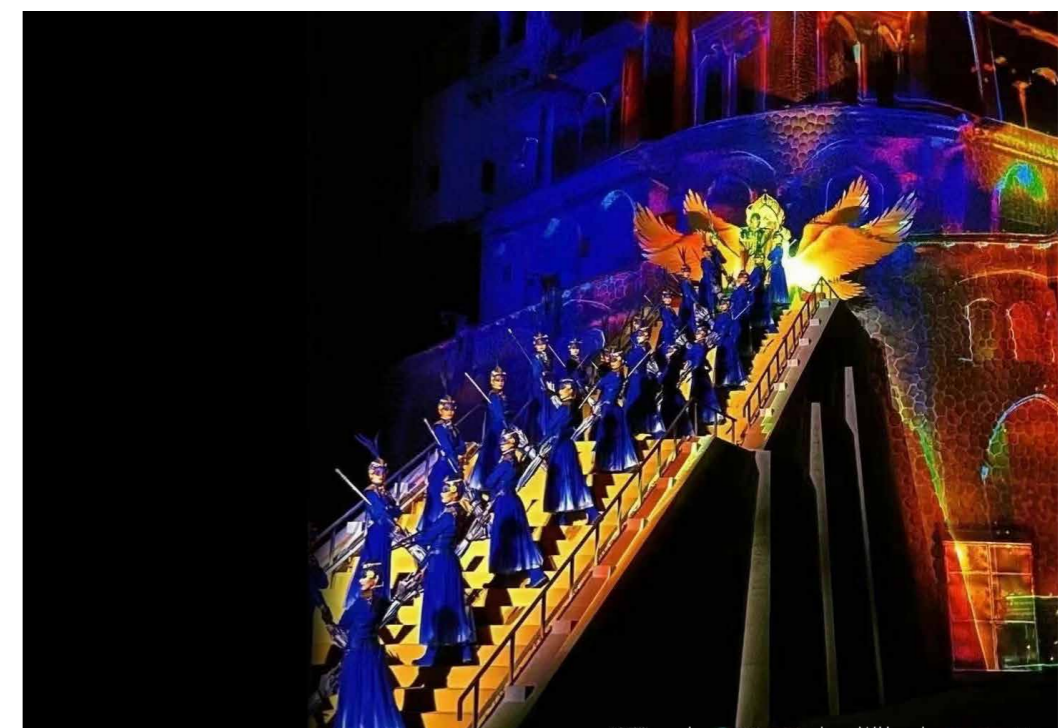
## From Immersive Experiences to 3D Mapping

Rooted in the uniqueness of Mazu culture, Appotronics has contributed to the creation of several light and shadow projects, attracting tourists with new forms of digital art and boosting the tourism development of Meizhou Island.

"First Encounter with Mazu" is located in the Tianhou Square Grand Theater next to the Mazu Ancestral Temple. This project seamlessly blends the profound Mazu culture with modern digital light and shadow technology, breaking through the limitations of traditional storytelling. In an immersive space, it transports the audience from being mere "spectators" to becoming part of the story itself.

The Tianfei Hometown Heritage Park is one of the birthplaces of Mazu culture. With its rich historical relics and cultural landscapes, it serves as a sacred site for inheriting and promoting the spirit of Mazu, as well as a popular tourist destination on Meizhou Island. Within the park stands the Peace Tower, symbolizing Mazu's blessings for the island's tranquility and the safe voyages of fishermen. As night falls, the Peace Tower becomes the visual centerpiece of the park under the glow of light and shadow. The projection seamlessly aligns with every curve and edge of the tower, creating a stunning 3D mapping effect on its complex architectural surface, making it one of the island's most iconic nightscapes.

XINJIANG HOTAN  
THE HARMONY RESONATES  
IN HOTAN



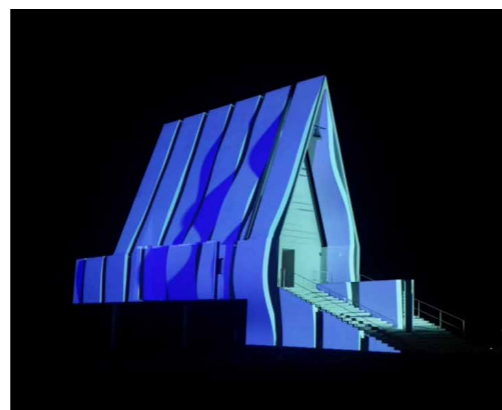
**Large-scale Live Performance  
Xinjiang Hotan Yutegan Ancient City**

Xinjiang Hotan Ancient City hosts a large-scale live performance, the first immersive show in Xinjiang called 'The Harmony Resonates in Hotan.' By combining innovative light and shadow technology with historical and cultural stories, the performance allows the audience to fully experience an immersive journey with the motto 'Every step, a scene; every road, a play!' This project utilized a total of 27pcs AL-GU20KA projectors, achieving detailed and realistic large-scale images with a brightness of 20,000 lumens and the high-color brightness of 3DLP technology."

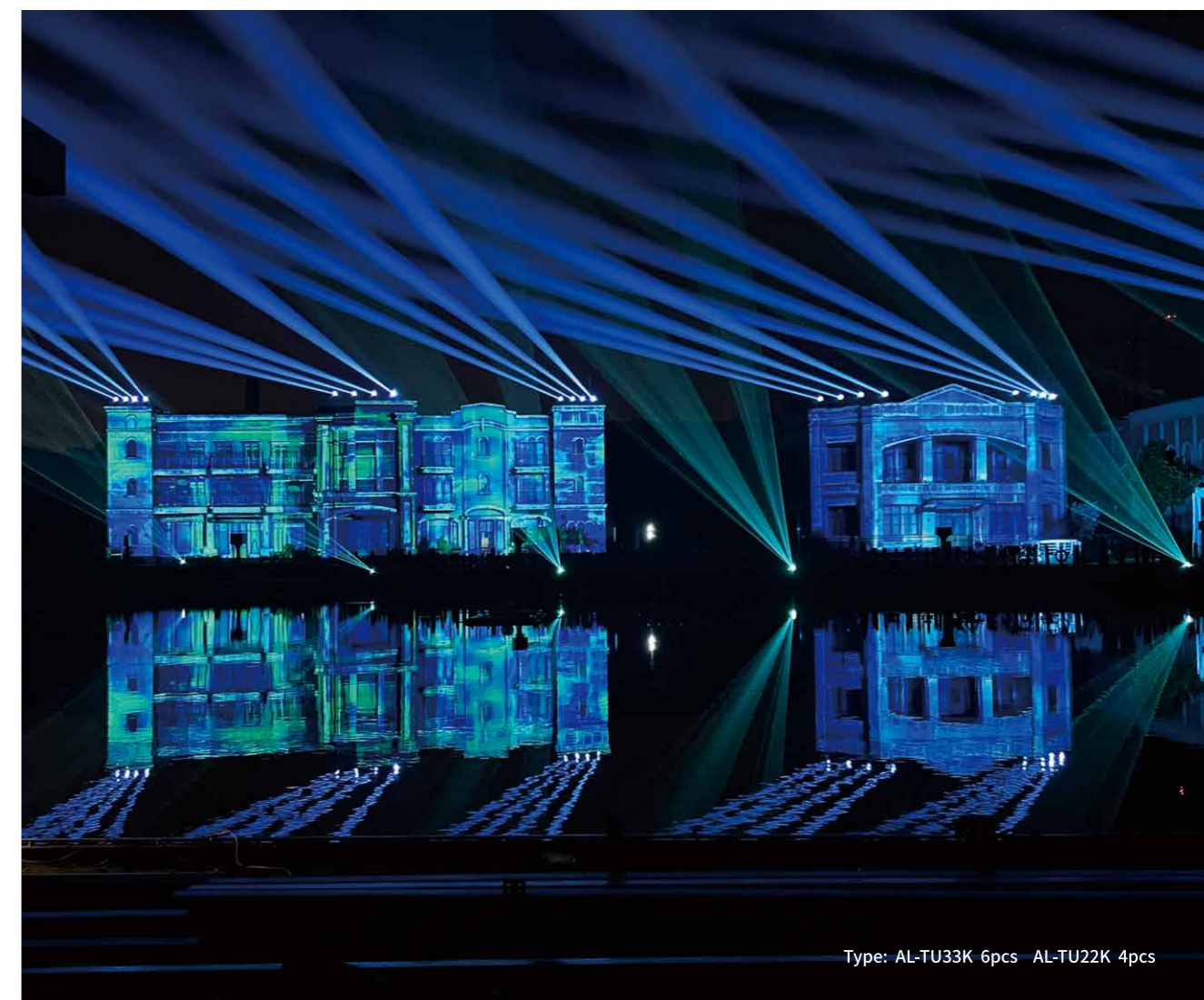


## Anaya Auditorium Mapping "Tide"

The Anaya Auditorium by the sea is like a spiritual utopia, where the tide rises and falls, and the sun and moon change. The new media art installation is a special presentation of the Anaya Auditorium, with laser projected images expressing thoughts and exploring values between the movements of the tides.



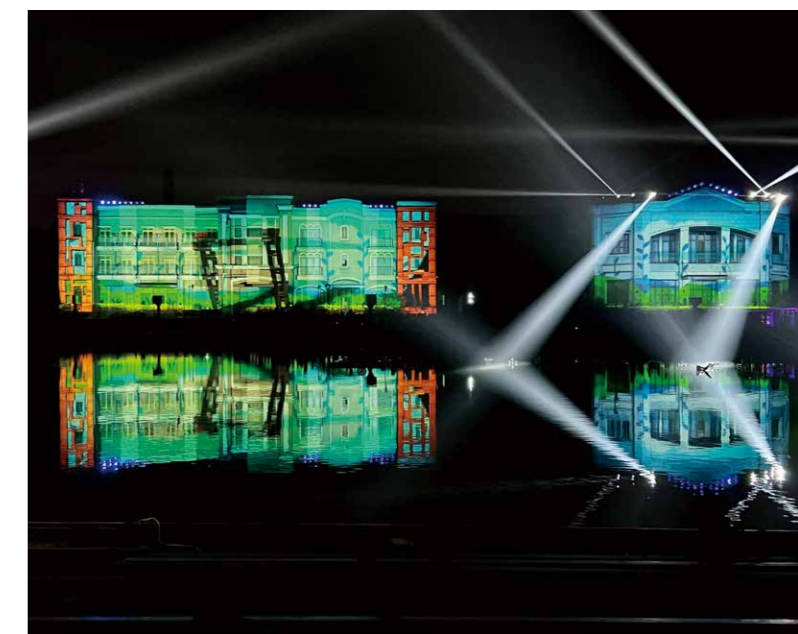
Type: AL-SU13K 6pcs



Type: AL-TU33K 6pcs AL-TU22K 4pcs

## Huallywood 5D Light Show

The application of Appotronics projectors on the large building surface to create a scene picture, combined with music and other audio-visual clever combination of visual images, the scene is grand, heart-wrenching.





Type: AL-TU33KA 6pcs

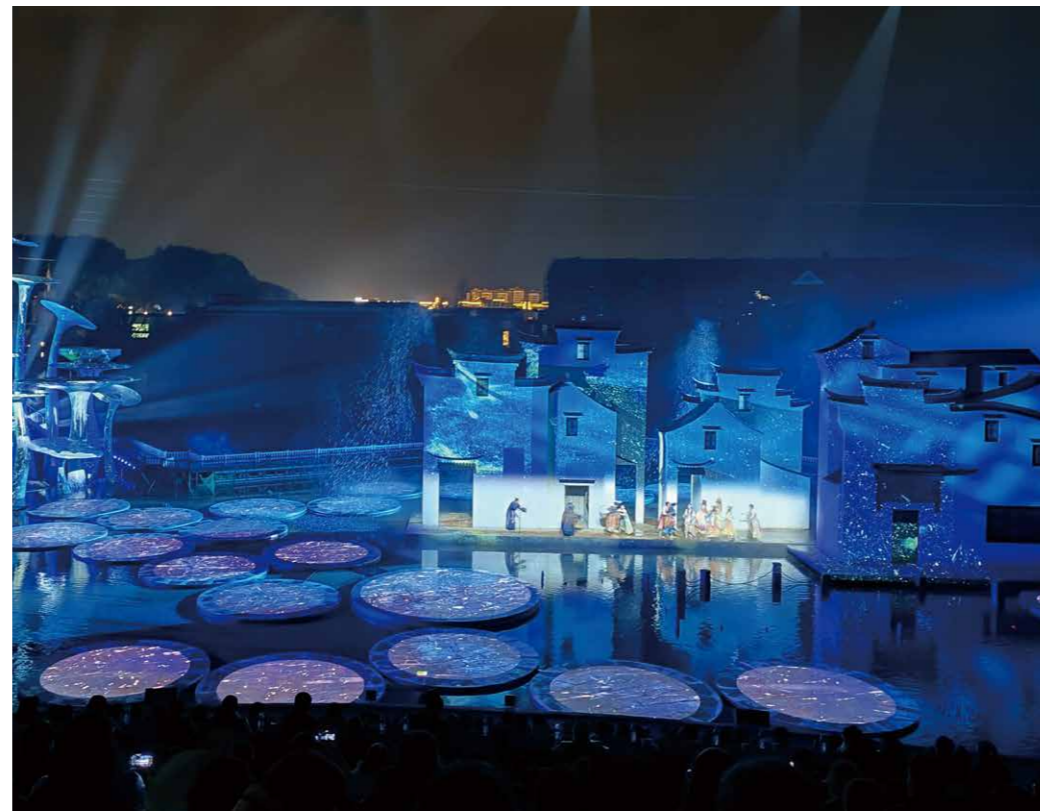


Type: AL-TU33KA 8pcs

## Wuyuan Wunvzhou Hui Culture and Tourism Town

Located in Wuyuan County, Shangrao City, Jiangxi Province, the "Hometown in Dreams" scenic area is part of Wuyuan, known as China's most beautiful countryside. Wuyuan has been actively developing its eco-tourism industry, continuously exploring its cultural heritage and integrating intangible cultural heritage and folk traditions. With the support of the Appotronics team, the project has brought to life the theme of Hui culture and the local legend of "Wunv Feitian" (The Flying Celestial Maiden). By combining immersive experiences as a core element, the team used 14 units AL-TU33K projectors to create a stunning lake show and a mesmerizing mapping show on the Baoyu Tower, crafting a nightscape rich in cultural depth.

To deliver an even more breathtaking visual experience and break the boundaries of conventional physical space, 8 units AL-TU33K high-definition laser projectors were installed on both sides of the Baoyu Tower. Utilizing ALPD® semiconductor laser light source technology, the projectors seamlessly blended and layered images across the tower's façade, which spans 59 meters in height and 33 meters in width. The result is a jaw-dropping visual spectacle that transforms the tower's daytime solemnity into a vibrant, nighttime "rebirth," offering audiences an unforgettable and immersive experience.



## Expo 2025 Osaka, Japan

The Shenzhen Metaverse Experience Center at the Big Silo was originally the raw material silo of the Guangdong Float Glass Factory. In 2022, the Big Silo launched its first digital art exhibition, featuring nearly 60 artists from around the world and over 40 artworks. Using cutting-edge technologies like holographic imaging, VR, and AR, the exhibition created a mysterious and fantastical world, immersing visitors in a one-of-a-kind digital experience.



## China Pavilion

As one of the largest foreign - constructed pavilions at Expo 2025 Osaka, Japan, the China Pavilion features five Chinese calligraphy styles — seal script, clerical script, regular script, running script, and cursive script. It is inscribed with 319 poems and names of scenic spots in Chinese characters, showcasing the time - honored charm of traditional Chinese calligraphy.

Covering an area of approximately 3,500 square meters, the China Pavilion takes “Jointly Building a Future Society for Harmonious Coexistence between Humans and Nature and Green Development” as its theme. Centering on the concepts of “Unity of Man and Nature”, “Lush Mountains and Clear Waters”, and “Boundless Vitality”, it is composed of three major exhibition areas, presenting an exhibition imbued with a unique Chinese style that is poetic and thought - provoking at every turn.



Exhibition of the Long River of Words



Exhibition of Cultural Heritage Sites



Exhibition of Five Oceans Roaming



Exhibition of the Nine Heavens Scenery Viewing



## "Youthful Companions" Youth Theater

"Youthful Companions" Youth Theater focuses on the vibrant youth of New China, set against the backdrop of their vivid educational experiences at the First Normal School of Hunan Province from 1913 to 1918. The narrative revolves around the youths' journey of "questioning, seeking, and establishing their aspirations," creating a dramatic scenario that unfolds their growth. Here, the audience transforms into "characters within the play," embarking on a quest for ambition alongside the youths, experiencing the grandeur of that era through innovative modern technological interpretations and immersive stage settings.

The theater space is divided into one main theater and four auxiliary theaters. Combining advanced engineering projections with scrim, the theater creates an innovative stage environment. The use of light and shadow crafts an atmospheric setting for performances, opening the door to different times and spaces, and immersing the audience in multiple segments of magnificent historical stories, significantly enhancing the emotional impact and awe of the live performances.



## Panda Planet

At Beijing's Dewey Center, more than 50 high-definition laser projectors from Appotronics lit up the national treasure art installation, Panda Planet, transporting visitors into the magical world of giant pandas. As soon as you step into the immersive light and shadow space, you're greeted by a stunning 800-square-meter screen. Using 16 units FPro series and 25 units DPro series laser projectors, Appotronics creates a breathtaking starry sky, blending light and shadow in a way that truly captivates the audience.

The success of Appotronics' laser projectors in Panda Planet is yet another testament to their outstanding performance. Thanks to their cutting-edge ALPD® semiconductor laser light source technology, Appotronics is pushing the boundaries of what's possible in exhibition and new media art. Their displays not only inspire creativity but also deliver jaw-dropping visual experiences to audiences around the world. Looking ahead, Appotronics plans to keep expanding the possibilities for their laser projectors, bringing even more awe-inspiring moments to life and lighting up the world in new and exciting ways.





## Creative Projection By-Health Nutrition Exploration Pavilion

With an investment of over 100 million RMB and three years of construction, the By-Health Nutrition Exploration Museum spans 7,000 square meters. Inside, 76 Appotronics engineering laser projectors create a mesmerizing "multi-sensory space" of sound, light, and electricity. Like a treasure trove of light-and-shadow nutrition knowledge, the museum transports visitors into the fascinating world of life and nutritional science, offering an immersive and educational experience like no other.



## West Lake Museum

Using cutting-edge light-and-shadow technology, the West Lake Museum enhances its exhibits and content, offering visitors an immersive journey through the millennium-long history and cultural evolution of West Lake. This innovative approach brings the stories and heritage of West Lake to life, creating a captivating experience for all.

## METACLUB Immersive Entertainment Space

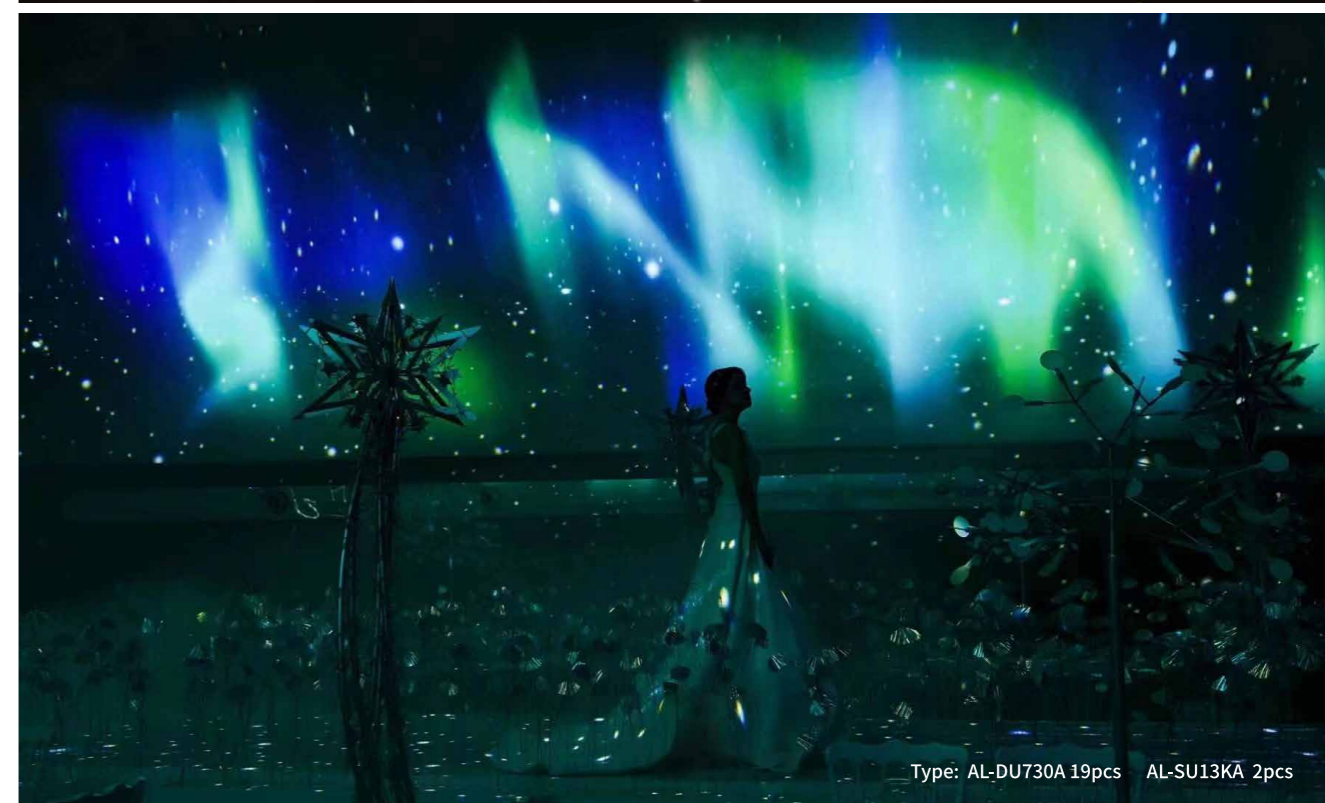
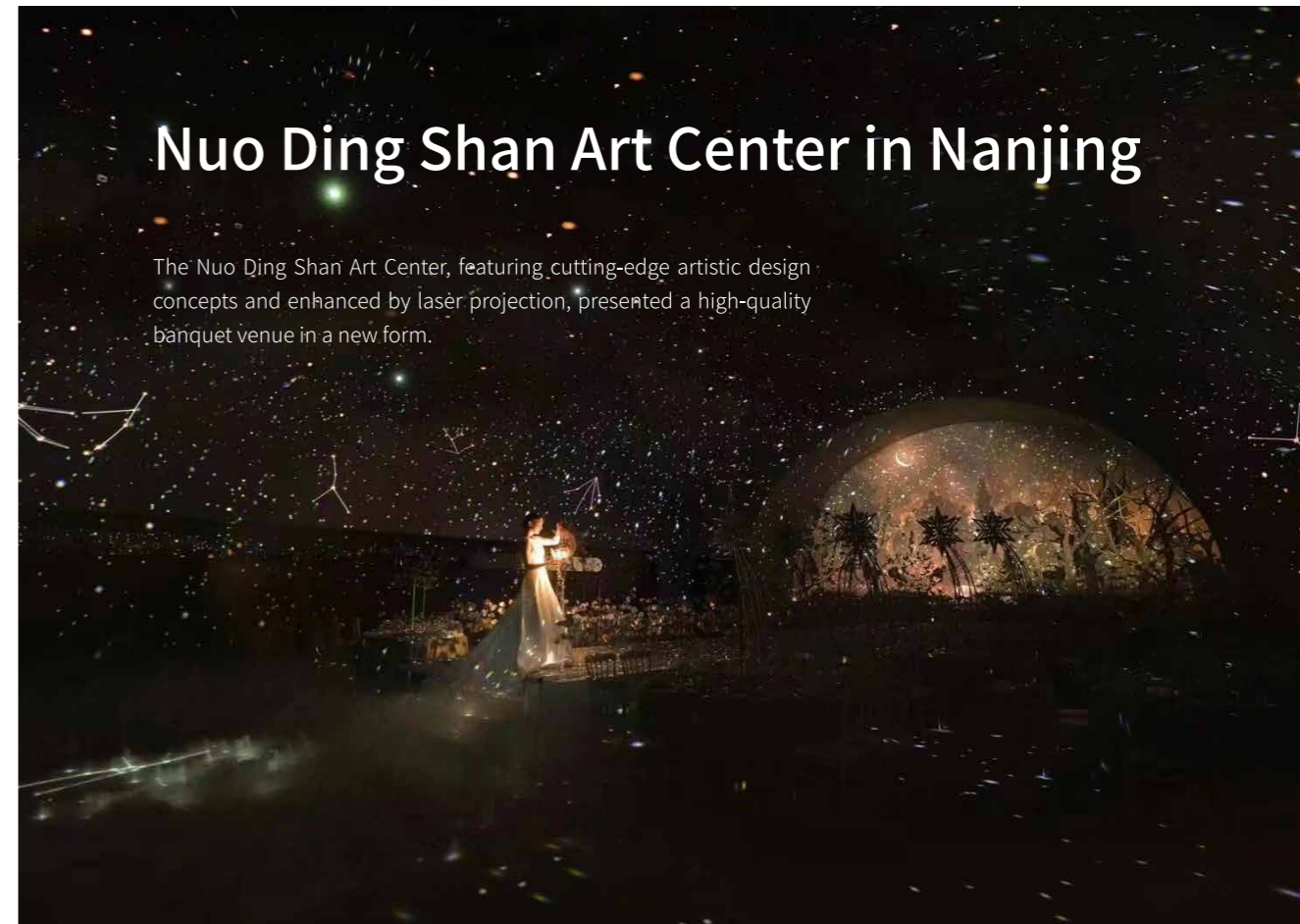
META CLUB's immersive entertainment space included four major formats: light and shadow restaurant, drama bar, script games, and parent-child entertainment, forming a fantastical space. Laser projection transformed specific areas into a new-generation living circle in the metaverse, turning dreams into reality.



Type: AL-MH520A 48pcs AL-DH800 7pcs

## Nuo Ding Shan Art Center in Nanjing

The Nuo Ding Shan Art Center, featuring cutting-edge artistic design concepts and enhanced by laser projection, presented a high-quality banquet venue in a new form.



Type: AL-DU730A 19pcs AL-SU13KA 2pcs



Type: AL-TU33K 6pcs

## Stage Performance – Finals of Chinese Westward Journey Mobile Game Championship

Six units Appotronics T-Series 33,000-lumen laser projectors were used to create a stunning naked-eye 3D visual effect on the main stage. By projecting from multiple angles, the setup transformed the competition venue into a lifelike Heavenly Palace Arena, immersing players and audiences alike in a truly realistic and captivating experience.



Type: AL-SU13K 4pcs AL-SU12K 11pcs

## Tsinghua University 110th Anniversary Light Show The Great Masters

To celebrate Tsinghua University's 110th anniversary, the light show The Great Masters was staged at the university's grand auditorium. Using laser projection technology, the show transformed the auditorium into a space for dialogue with history, immersing the audience in the charm and legacy of the great scholars and masters.

| M Pro Series        |          |              |               |            |            |        |            |        |            |        |
|---------------------|----------|--------------|---------------|------------|------------|--------|------------|--------|------------|--------|
| Screen Size 16 : 10 |          |              |               | AL-ML050FR | AL-ML070FR |        | AL-ML100MA |        | AL-ML153MA |        |
| Diagonal            |          | Screen Width | Screen Height | 0.5        | 0.7        | 0.9    | 1          | 1.6    | 1.54       | 2.48   |
| Unit : inch         | Unit : m | Unit : m     | Unit : m      | Far(m)     | Wide(m)    | Far(m) | Wide(m)    | Far(m) | Wide(m)    | Far(m) |
| 80                  | 2.03     | 1.77         | 1.00          | 0.89       | 1.24       | 1.59   | 1.77       | 2.83   | 2.73       | 4.39   |
| 100                 | 2.54     | 2.21         | 1.25          | 1.11       | 1.55       | 1.99   | 2.21       | 3.54   | 3.41       | 5.49   |
| 120                 | 3.05     | 2.66         | 1.49          | 1.33       | 1.86       | 2.39   | 2.66       | 4.25   | 4.09       | 6.59   |
| 150                 | 3.81     | 3.32         | 1.87          | 1.66       | 2.32       | 2.99   | 3.32       | 5.31   | 5.11       | 8.24   |
| 180                 | 4.57     | 3.99         | 2.24          | 1.99       | 2.79       | 3.59   | 3.99       | 6.38   | 6.14       | 9.88   |
| 200                 | 5.08     | 4.43         | 2.49          | 2.21       | 3.10       | 3.99   | 4.43       | 7.08   | 6.82       | 10.98  |
| 250                 | 6.35     | 5.54         | 3.11          | 2.77       | 3.87       | 4.98   | 5.54       | 8.86   | 8.52       | 13.73  |
| 300                 | 7.62     | 6.64         | 3.74          | 3.32       | 4.65       | 5.98   | 6.64       | 10.63  | 10.23      | 16.47  |

| S Pro & S Smart Series |          |              |               |            |            |        |            |        |            |        |            |        |            |        |            |        |            |        |            |        |
|------------------------|----------|--------------|---------------|------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
| Screen Size 16 : 10    |          |              |               | AL-XL036FR | AL-XL053FR |        | AL-XL070FR |        | AL-XL085FR |        | AL-XL110MA |        | AL-XL150MA |        | AL-XL169MA |        | AL-XL240LA |        | AL-XL380LA |        |
| Diagonal               |          | Screen Width | Screen Height | 0.36       | 0.53       | 0.63   | 0.7        | 0.85   | 0.85       | 1.1    | 1.14       | 1.51   | 1.5        | 2.5    | 1.69       | 2.42   | 2.4        | 3.8    | 3.8        | 6.8    |
| Unit : inch            | Unit : m | Unit : m     | Unit : m      | Wide(m)    | Wide(m)    | Far(m) | Wide(m)    | Far(m) | Wide(m)    | Far(m) | Wide(m)    | Far(m) | Wide(m)    | Far(m) | Wide(m)    | Far(m) | Wide(m)    | Far(m) | Wide(m)    | Far(m) |
| 60.00                  | 1.52     | 1.29         | 0.81          | 0.47       | 0.68       | 0.81   | 0.90       | 1.10   | 1.10       | 1.42   | 1.47       | 1.95   | 1.94       | 3.23   | 2.18       | 3.13   | 3.10       | 4.91   | 4.91       | 8.79   |
| 80.00                  | 2.03     | 1.72         | 1.08          | 0.62       | 0.91       | 1.09   | 1.21       | 1.46   | 1.46       | 1.90   | 1.96       | 2.60   | 2.58       | 4.31   | 2.91       | 4.17   | 4.14       | 6.55   | 6.55       | 11.72  |
| 100.00                 | 2.54     | 2.15         | 1.35          | 0.78       | 1.14       | 1.36   | 1.51       | 1.83   | 1.83       | 2.37   | 2.46       | 3.25   | 3.23       | 5.38   | 3.64       | 5.21   | 5.17       | 8.18   | 8.18       | 14.65  |
| 120.00                 | 3.05     | 2.58         | 1.62          | 0.93       | 1.37       | 1.63   | 1.81       | 2.20   | 2.20       | 2.84   | 2.95       | 3.90   | 3.88       | 6.46   | 4.37       | 6.25   | 6.20       | 9.82   | 9.82       | 17.58  |
| 150.00                 | 3.81     | 3.23         | 2.02          | 1.16       | 1.71       | 2.04   | 2.26       | 2.75   | 2.75       | 3.55   | 3.68       | 4.88   | 4.85       | 8.08   | 5.46       | 7.82   | 7.75       | 12.28  | 12.28      | 21.97  |
| 180.00                 | 4.57     | 3.88         | 2.42          | 1.40       | 2.05       | 2.44   | 2.71       | 3.30   | 3.30       | 4.26   | 4.42       | 5.85   | 5.82       | 9.69   | 6.55       | 9.38   | 9.30       | 14.73  | 14.73      | 26.36  |
| 200.00                 | 5.08     | 4.31         | 2.69          | 1.55       | 2.28       | 2.71   | 3.02       | 3.66   | 3.66       | 4.74   | 4.91       | 6.50   | 6.46       | 10.77  | 7.28       | 10.42  | 10.34      | 16.37  | 16.37      | 29.29  |
| 250.00                 | 6.35     | 5.38         | 3.37          | 1.94       | 2.85       | 3.39   | 3.77       | 4.58   | 4.58       | 5.92   | 6.14       | 8.13   | 8.08       | 13.46  | 9.10       | 13.03  | 12.92      | 20.46  | 20.46      | 36.62  |
| 300.00                 | 7.62     | 6.46         | 4.04          | 2.33       | 3.42       | 4.07   | 4.52       | 5.49   | 5.49       | 7.11   | 7.37       | 9.76   | 9.69       | 16.15  | 10.92      | 15.64  | 15.51      | 24.55  | 24.55      | 43.94  |

\*The models AL-XL036FR, AL-XL053FR, AL-XL380LA are under continuous development; please consult your local sales representatives for the specific launch dates.

| D Pro Series        |          |              |               |               |               |               |              |
|---------------------|----------|--------------|---------------|---------------|---------------|---------------|--------------|
| Screen Size 16 : 10 |          |              |               | AL-DL062FR    | AL-DL080FR    | AL-DL123MA    |              |
| Diagonal            |          | Screen Width | Screen Height | 0.62          | 0.8           | 1.23          | 1.97         |
| Unit : inch         | Unit : m | Unit : m     | Unit : m      | Wide angle(m) | Wide angle(m) | Wide angle(m) | Far angle(m) |
| 60                  | 1.52     | 1.29         | 0.81          | 0.80          | 1.03          | 1.59          | 2.55         |
| 80                  | 2.03     | 1.72         | 1.08          | 1.07          | 1.38          | 2.12          | 3.40         |
| 100                 | 2.54     | 2.15         | 1.35          | 1.34          | 1.72          | 2.65          | 4.24         |
| 120                 | 3.05     | 2.59         | 1.62          | 1.60          | 2.07          | 3.18          | 5.09         |
| 150                 | 3.81     | 3.23         | 2.02          | 2.00          | 2.59          | 3.97          | 6.37         |
| 180                 | 4.57     | 3.88         | 2.42          | 2.40          | 3.10          | 4.77          | 7.64         |
| 200                 | 5.08     | 4.31         | 2.69          | 2.67          | 3.45          | 5.30          | 8.49         |
| 250                 | 6.35     | 5.39         | 3.37          | 3.34          | 4.31          | 6.62          | 10.61        |
| 300                 | 7.62     | 6.46         | 4.04          | 4.01          | 5.17          | 7.95          | 12.73        |

| T Pro Series        |          |              |               |            |        |            |        |            |        |            |        |            |        |            |        |
|---------------------|----------|--------------|---------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
| Screen Size 16 : 10 |          |              |               | AL-TL089SZ |        | AL-TL128MA |        | AL-TL160LZ |        | AL-TL213LZ |        | AL-TL366LZ |        | AL-TL450TZ |        |
| Diagonal            |          | Screen Width | Screen Height | 0.89       | 1.29   | 1.28       | 1.81   | 1.6        | 2.29   | 2          | 4      | 3.66       | 5.94   | 4.5        | 8.2    |
| Unit : inch         | Unit : m | Unit : m     | Unit : m      | Wide(m)    | Far(m) | Wide(m)    | Far(m) | Wide(m)    | Far(m) | Wide(m)    | Far(m) | Wide(m)    | Far(m) | Wide(m)    | Far(m) |
| 100                 | 2.54     | 2.15         | 1.35          | 1.92       | 2.78   | 2.76       | 3.90   | 3.45       | 4.93   | 4.3        | 8.6    | 7.88       | 12.79  | 9.69       | 17.66  |
| 120                 | 3.05     | 2.59         | 1.62          | 2.30       | 3.33   | 3.31       | 4.68   | 4.14       | 5.92   | 5.18       | 10.36  | 9.46       | 15.35  | 11.63      | 21.20  |
| 150                 | 3.81     | 3.23         | 2.02          | 2.88       | 4.17   | 4.14       | 5.85   | 5.17       | 7.40   | 6.46       | 12.92  | 11.83      | 19.19  | 14.54      | 26.49  |
| 180                 | 4.57     | 3.88         | 2.42          | 3.45       | 5.00   | 4.96       | 7.02   | 6.20       | 8.88   | 7.76       | 15.52  | 14.19      | 23.03  | 17.45      | 31.79  |
| 200                 | 5.08     | 4.31         | 2.69          | 3.83       | 5.56   | 5.51       | 7.80   | 6.89       | 9.87   | 8.62       | 17.24  | 15.77      | 25.59  | 19.39      | 35.32  |
| 250                 | 6.35     | 5.39         | 3.37          | 4.79       | 6.95   | 6.89       | 9.75   | 8.62       | 12.33  | 10.78      | 21.56  | 19.71      | 31.99  | 24.23      | 44.16  |
| 300                 | 7.62     | 6.46         | 4.04          | 5.75       | 8.37   | 8.27       | 11.70  | 10.34      | 14.80  | 12.92      | 25.84  | 23.65      | 38.38  | 29.08      | 52.99  |
| 400                 | 10.16    | 8.62         | 5.39          | 7.67       | 11.11  | 11.03      | 15.59  | 13.79      | 19.73  | 17.24      | 34.48  | 31.53      | 51.18  | 38.77      | 70.65  |
| 500                 | 12.70    | 10.77        | 6.73          | 9.59       | 13.89  | 13.79      | 19.49  | 17.23      | 24.66  | 21.54      | 43.08  | 39.42      | 63.97  | 48.46      | 88.31  |