APPOTRONICS® | ALPD®

Appotronics Corporation Ltd.

U.A.E DISTRIBUTOR: ABODE AUTOMATION & WIRELESS SYSTEM
EQUIPMENT INSTALLATION CO. LLC
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www.abodeautomation.ae

2025. 01

APPOTRONICS ALPD®
Professional Projector Product Lineup 2025

2006 / 2007

Established in Shenzhen

Invented the ALPD® semiconductor laser light source technology

2013

Invented the world's first laser TV

2014 / 2015

Established CINEAPPO with CFGC to make an independent innovation in China's film projection technology

2017

Launched C5, China's first DCI-compliant laser digital film projector

2018

Launched the world's first laser TV priced at less than RMB10,000 in cooperation with Xiaomi

2019

Got listed on the SSE STAR Market in the first batch

2021

Launched the world's first laser display prototype for civil aviation in cooperation with Airbus

2022

Certified by IATF International Automotive Regulations

Became an solution provider for top car companies at home and abroad

Launched the world's first commercial AR module with 10,000+ PPI

2023

Provided core components for BMW's Dee, the world's first concept car with four-window fusion display technology, at CES 2023

Launched the world's first automotive-grade laser headlight supporting RGB display at Shanghai Auto Show

2024

Launched the world's first All-in-One laser headlight

at the Beijing International Automotive Exhibition

New light , New life®

▶ About Appotronics

COMPANY PROFILE

Appotronics Corporation Ltd.

As one of the earliest companies listed on the Chinese STAR Board, Appotronics (688007.SH) is a leading laser display technology company, which owns original technology core patents and excellent capabilities in research, development and manufacturing of optical core components.

Appotronics is true leader in the laser display field formed by the global R&D leaders from specialized areas such as optics, electronics, materials, physics, mechanical engineering, and precision manufacturing, etc.

At present, products of Appotronics are widely used by vehicle optical systems, cinemas, household environment, engineering projects, commercial complex, and education facilities etc., and they are even expected to be used in aviation, AR and other exciting new fields. Focusing on automotive optical projector and illumination devices, Appotronics is committed to offering most sophisticated technology and advanced products to satisfy multiple display application scenarios, such as in-plane display, AR-HUD, advanced projection illumination and projection inter action system, etc.

What is ALPD®?

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

Over 2500 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.

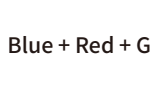**Wider Spectrum**
(ALPD® 4.0 covers 120% of Rec. 2020)

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
				Blue + Red + Green
Appotronics introduced its revolution ary 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.

LIPA
Laser Illuminated Projector Association

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 CO_2 emissions.

High Contrast

High light output beyond that of theater quality.
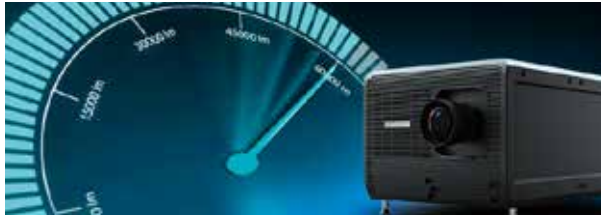
High Brightness

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.

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.

52%
R&D personnel
in total employees

29%
> 29% Employees with
master or PhD degrees
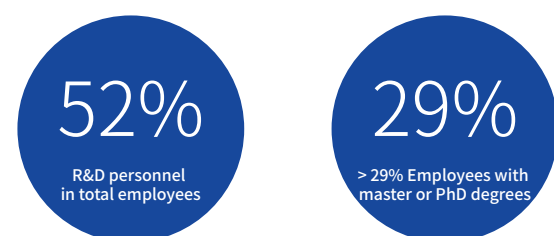
Strengthen Patent Protection and Be a Founder of Industry Standards

Appotronics, as the inventor of the laser phosphor technology, owns over 2629 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

4.36
Appotronics

0.81
Domestic

0.38
Foreign
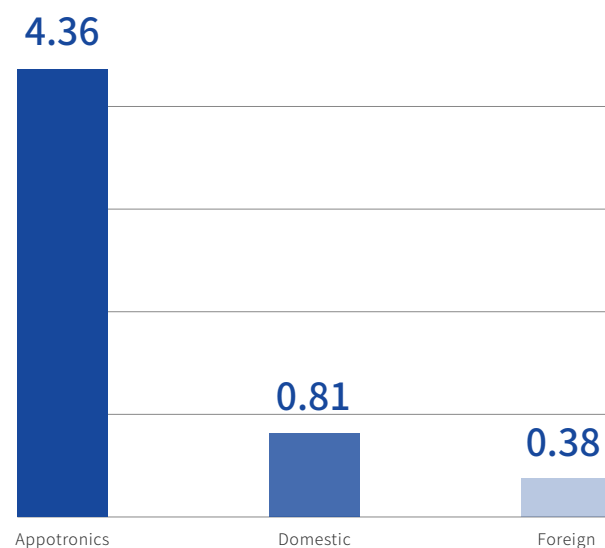
Source: Development Planning Division of China National Intellectual Property Administration

Pioneer New Application Scenarios

Over 28,500 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

U Series	M Series	D & D Pro Series	F Pro Series	S Series	S Pro Series	G & G Pro Series	T Pro Series
							AL-TU34KA (60000lm)
					NEW	AL-GU25KA	
						AL-GU22KA	40000lm
					AL-SK20KAP		
					AL-SU20KAP	20000lm	
				AL-SU15KA	AL-SK16KAP		
				AL-SU13KA	AL-SU16KAP		
			AL-FU935A			10000lm	
		AL-DU935A	AL-FU825A				
		AL-DU835A	AL-FU755A				
		AL-DU735A				7200lm	
		AL-DU635A					
	AL-MK625A						
	AL-MU625A						
AL-UK535A	AL-MK525A						
AL-UH535A	AL-MU525A						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.

ALPD® 3.0	10.5 lm/W
ALPD® 2.0	8.0 lm/W
RGB	7.0 lm/W
Xenon	4.2 lm/W

5000lm 7200lm 10000lm 20000lm 40000lm 60000lm

High lumen area

U Series M Series D Pro Series F Pro Series S Series G Series T Pro Series
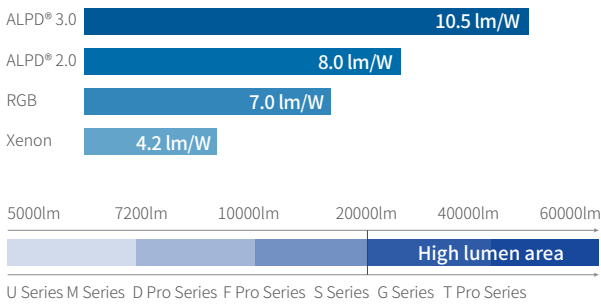
Compact and Light Weight

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.

4K
3840×2160

WUXGA
1920×1200

1080P
1920×1080

720P
1280×720

Intelligent APOS and APCS

APOS (Appotronics On-screen Display)

Apptronics' 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 series installation projectors have over 16% 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

		R / W	G / W	B / W	C / W	M / W	Y / W
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%

Others
(6500lm, Laser , DLP)

Appotronics
(6500lm, Laser,DLP)
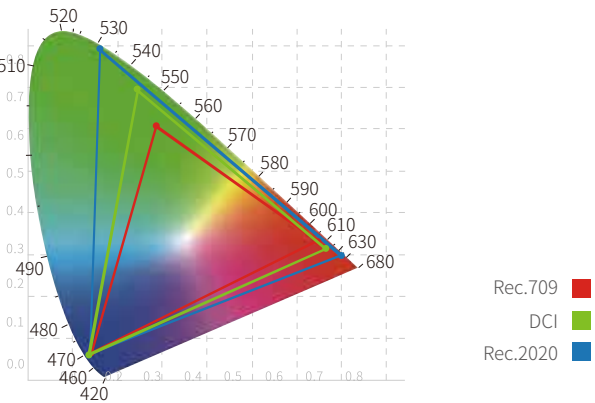
Red Color Ratios=6~7%

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.

Rec.709
DCI
Rec.2020

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

Appotronis (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 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.
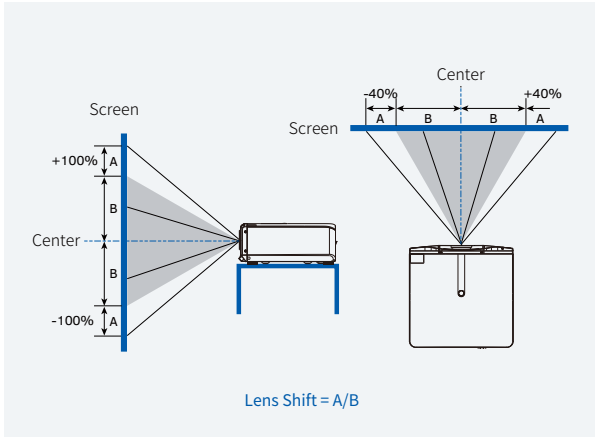
Color Brightness Observation of Laser Installation Projectors

		R G B
V corp.	37%	
B corp.	42%	
P corp.	61%	
Appotronics S Series	100%	

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%
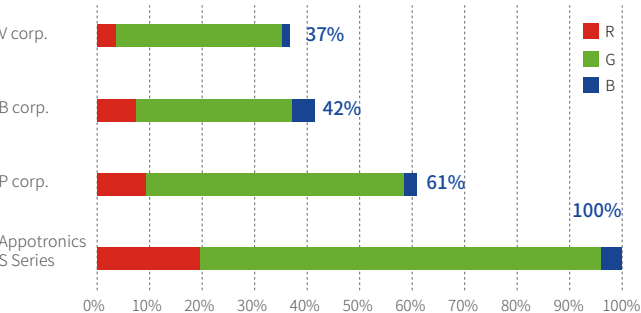
Wide-range Powered Lens Shift

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

Screen

Screen

Center

-40%   +40%

+100% A

Center

-100% A

Lens Shift = A/B

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.

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.

Built-in Geometric Correction and Edgeblending

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

Irregular Screen(Concave, Convex)

Ultra-short-throw Installations(U Series)

Making installations "shadow-free".

Front Projection | Rear Projection | Ceiling Front + Floor Rear Projection | Mapping | Dome Projection | Cave Projection

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

29500+

10 years

More then 29500 cinemas choose ALPD® laser cinema solutions.
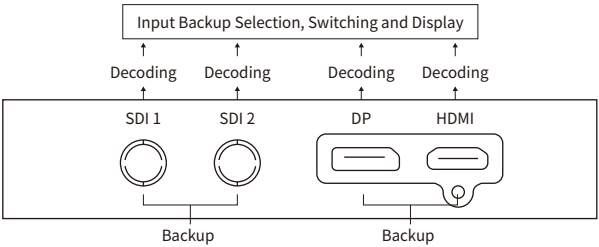
The 1st 20000lm DCI ALPD® cinema projector was put in service July 10th, 2014 and has amassed more than 10 years of use since.

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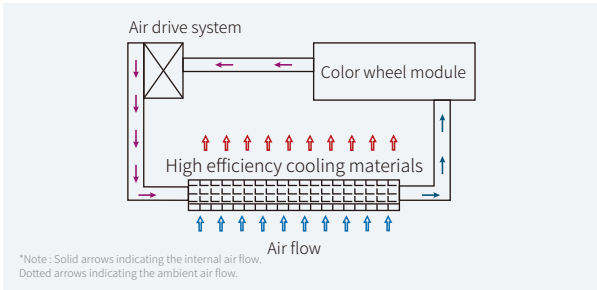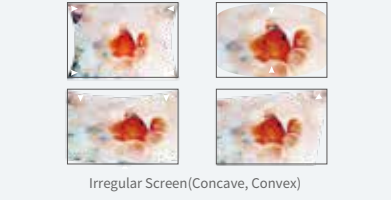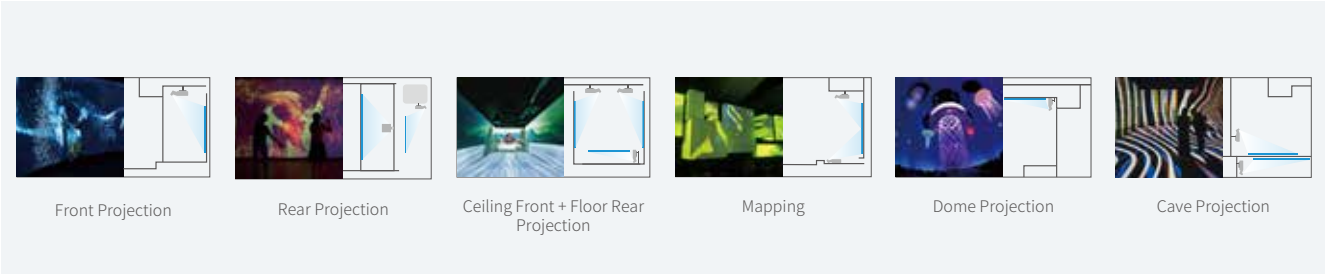
Dual-channel Input Signal Backup —— The main channel will seamlessly switch to the backup channel after signal abnormality to ensure high reliability of the system.

Input Backup Selection, Switching and Display

Decoding | Decoding | Decoding | Decoding

SDI 1 | SDI 2 | DP | HDMI

Backup | Backup

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.

Air drive system

Color wheel module

High efficiency cooling materials

Air flow

*Note : Solid arrows indicating the internal air flow.
Dotted arrows indicating the ambient air flow.

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.

24h

Durability | Reliability

Product Lineup 2025

5000-34000lm

U Series

M Series

D Pro Series

F Pro Series

S Series

S Pro Series

G Series

T Pro Series

T Pro Series

Superior Performance T Pro Series

Upgraded T Pro Series Large Venue Projectors

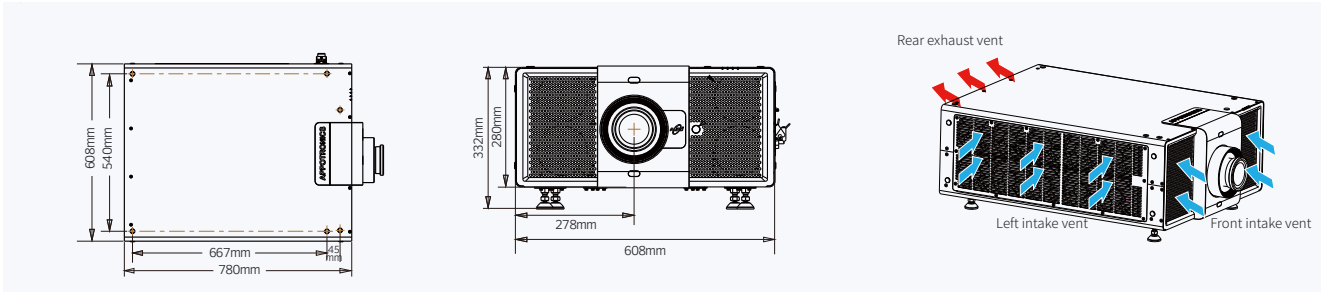|		
34,000lm High Brightness	Improved ALPD 3.0 Light Engine	3DLP Projection System
Wide Color Space 120% Rec.709	Compact Light Weight	Input Backup
8 Optional Lens	Cinema Level Reliability	

Model	AL-TU34KA
Display Technology	DLP™ chipx3, DLP™ projection system
Resolution	1,920×1,200
Brightness Output[①]	34,000lm (Center)
Light Source Type	ALPD® (Laser type: Class1, under IEC60825-1:2014)
Life Source Lifetime[⑥]	20,000h
Contrast[②]	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
Power Consumption — Stand by	<0.5W (ECO Standy)
Structure — Measurements[③]	(L×W×H) 23.9×30.7×11'' (608×780×280mm)
Structure — Weight[④]	154lbs (70kg)
Noise	49dB
Working Environment — Temperature[⑤]	32°F~113°F (0°C~45°C)
Working Environment — 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.

Rear exhaust vent

Left intake vent   Front intake vent

G Series

Gorgeous Functionality [G Series]

Upgraded G Series Large Venue Projector

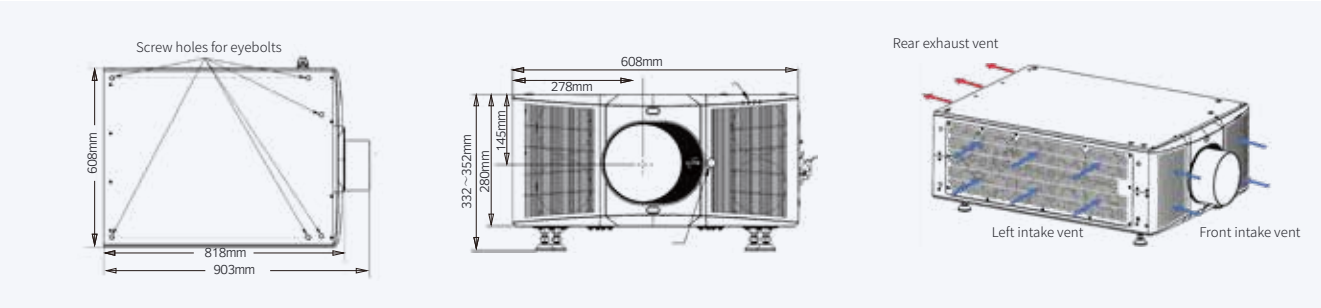|		
22,000-26,000 Lumens	Improved ALPD 3.0 Light Engine	3DLP Projection System
Wide Color Space 120% Rec.709	Red Ratio >20%	8 Optional Lens
Input Backup	Cinema Level Reliability	

Model	AL-GU22KA	AL-GU25KA
Display Technology	DLP™ chipx3, DLP™ projection system	
Resolution	1,920×1,200	
Brightness Output①	22,000 lm / 23,000 lm (Center)	25,000 lm / 26,000 lm (Center)
Light Source Type	ALPD® Laser	Red and Blue Laser + ALPD® Laser
Life Source Lifetimev⑥	20,000h	
Contrast②	100,000 :1	
Uniformity	95%	
Display Gamut	REC.709	
Edge Blending	Horitonal & vertical edge blending	
Optional Lenses	Powered lenses 0.7:1, 0.8:1, 0.89-1.29:1, 1.28~1.81:1, 1.6~2.29:1, 2.13~4.16:1, 3.66-5.94:1, 4.5-8.2:1	
Screen Size	70" ~ 1000"	
Geometric Correction	Vertical & horizontal & keystone±20°	Vertical & horizontal & keystone±20°, corner keystone,multi-point 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	2200W	2500W
Power Consumption — Stand by	<0.5W (ECO)	
Structure — Measurements③	(L×W×H) 26.8×23.9×11'' (818 x 608 x 280mm)	
Structure — Weight④	68kg	
Noise	49dB	
Working Environment — Temperature⑤	32°F~113°F (0°C~45°C)	
Working Environment — 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.

Screw holes for eyebolts

608mm

278mm

Rear exhaust vent

Left intake vent   Front intake vent

818mm
903mm

332~352mm
280mm
145mm

608mm

S Series

Color Superlative S Series

S Series Large Venue Projectors

13,000-15,000 Lumens

ALPD® Laser Light Source

RGB Primary Colors
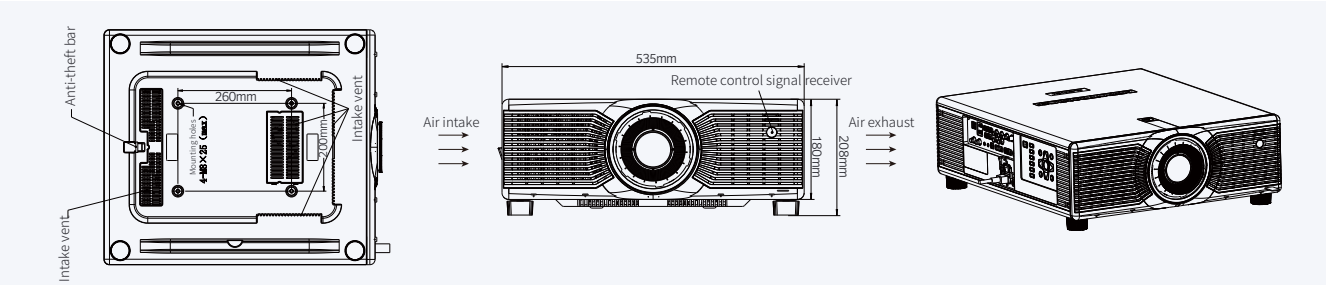
16% Red Ratio

6 Optional Lens

3D Support 3D Sync

Built-in Blending & Wrapping Geometric Correction

Cinema Level Reliability

Model	AL-SU13KA	AL-SU15KA
Display Technology	DLP™x1, DLP™ projection system	
Panel Size	0.67"DMD	
Resolution	1,920×1,200, WUXGA	
Brightness Output①	13,000lm (ANSI) / 13,800lm (Center)	15,000lm (Center)
Light Source Type	ALPD® Laser (Laser type: Class1)	
Life Source Lifetime⑥	20,000h (Standard Mode)	
Contrast②	100,000 :1	
Uniformity	90%	
Display Gamut	REC.709	
Edge Blending	Horitonal & vertical edge blending	
Optional Lenses	0.5:1, 0.62:1, 0.8:1, 1.23-1.97:1 (Standard)	
Screen Size	40" ~ 600"	
Keystone	Vertical/Horizontal ±20°	
Optical Axis Shift	Vertical: ±100%, Horizontal: ±40%, powered	
Input Resolution	1,920x1,200 pixels (higher resolution will be scaled to 1,920x1,200 pixels)	
I/O	DVI × 1 / HDMI × 1 / DP × 1 / VGA × 1 / BNC × 5 / SDI × 1 / 3D SYNC × 2(in/out) / Wired Remote M3 × 2 (in/out) / HDbaseT × 1 (compatible with RJ45) / RS232 × 2 (in/out) / USB × 1 / IR 3D OUT × 1	
Power Supply	100-240V AC, 50/60Hz	
Power Consumption — Standard	1300W	1400W
Power Consumption — Stand by	Power saving 0.5W/ Stand by 7W	
Orientation	360°installation	
Noise	35dB (ECO)/39dB (Standard)	
Structure — Measurements③	(L×W×H) 24.4×21×7.1'' (620×535×180mm)	
Structure — Weight④	63.14lbs (28.7kg)	
Working Environment — Temperature⑤	32°F~104°F (0-40°C) 95°F~104°F (35-40°C Eco Mode)	
Working Environment — 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.

S Pro Series

Defining Color Perfection S Pro Series

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

Model	AL-SK20KAP	AL-SK16KAP	AL-SU20KAP	AL-SU16KAP
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[①]	20,000lm/21,000lm(center)	16,000lm/17,000lm(center)	20,000lm/21,000lm(center)	16,000lm/17,000lm(center)
Light Source Type	ALPD®5.0 Super Full-Spectrum Laser			
Life Source Lifetime[⑥]	20,000h			
Contrast[②]	≥100,000:1			
Uniformity	≥95%			
Display Gamut[⑦]	≥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 (19201200/60P); DP (19201200/60P Optional); HDBASET (19201200/60P Optional); 3D Sync Signal Interfaces: 3D syn in; 3D syn out; IR 3D out 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 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[③]	(LxWxH) 24.6"× 21"× 7" (625×533×178mm)		
	Weight[④]	77.2lbs (35kg)		
Work Environment	Temperature[⑤]	32°F ~ 104°F (0-40℃)		
	Storage Temperature	14°F ~ 144°F (-10-62℃)		
	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℃) when working under High Altitude Mode. Light output of projector will be reduced to 50% if ambient temperature exceeds 95°F(0-35℃). 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.

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
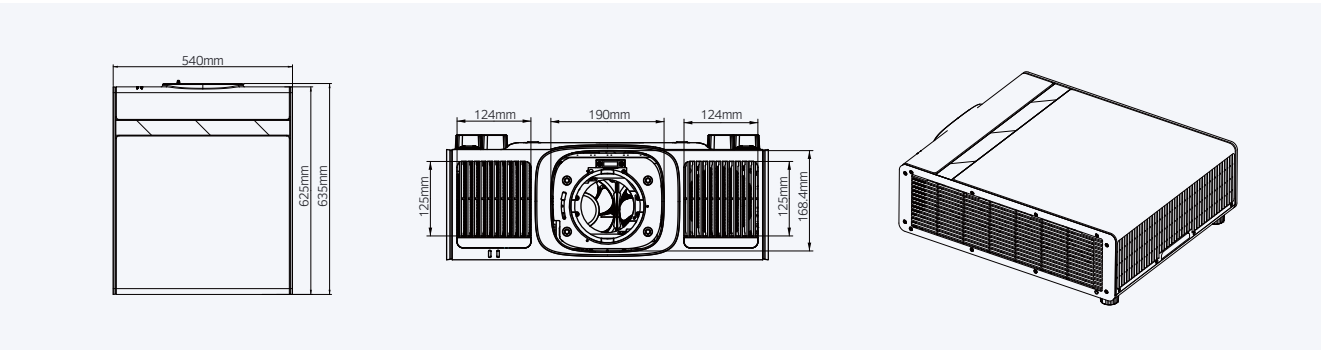
F Pro Series

High Capability F Pro Series

Installation Projector F Pro Series

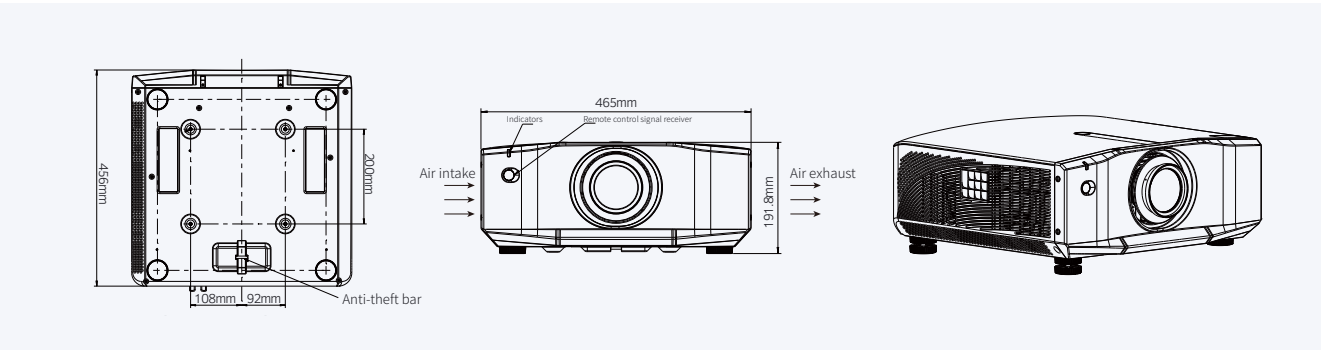| lm	ALPD®	62% CLO	10% R	6 Optional Lens	3D	Built-in	Cinema Level
7,200-9,000 Lumens	ALPD® Laser Light Source	62% CLO	10% Red Ratio	6 Optional Lens	All Product Support 3D Sync	Built-in Blending & Wrapping Geometric Correction	Cinema Level Reliability

Model	AL-FU755A	AL-FU825A	AL-FU935A
Display Technology	DLP™x1, DLP™ projection system		
Panel Size	0.67"DMD		
Resolution	1,920×1,200, WUXGA		
Brightness Output①	7,200lm (Center)	8,200lm (Center)	9,000lm (Center)
Light Source Type	ALPD® Laser (Class 1)		
Life Source Lifetime⑥	20,000h		
Contrast②	100,000 :1		
Uniformity	90%		
Display Gamut	REC.709		
Optional Lenses	Powered lenses 0.5:1, 0.62:1, 0.8:1, 1.23-1.97:1		
Screen Size	40" ~ 300"		
Keystone	H+V: ±20°, corner keystone, 9-point correction		
Optical Axis Shift	Vertical: ±100%, Horizontal: ±40%, powered		
Input Resolution	1,920×1,200		
I/O	DVI × 1 / HDMI × 1 / RJ45 × 1 / VGA × 1 / BNC × 5 / CVBS × 1 / 3D SYNC × 2(in/out) / Wired RC M3 × 2(in/out) / HDbaseT × 1 / RS232 × 2(in/out) / USB × 1 / IR 3D OUT × 1		
Power Supply	100-240V AC, 50/60Hz		
Power Consumption — Standard	600W	650W	700W
Power Consumption — Stand by	Normal 7W / ECO 0.5W		
Orientation	360° installation		
Noise	35dB (ECO)/37dB (Standard)		
Structure — Measurements③	(L×W×H) 18.3×17.9×7.1'' (465×455×180mm)		
Structure — Weight④	36.96lbs (16.8kg)		
Working Environment — Temperature⑤	32°F~104°F (0-40°C) 95°F~104°F (35-40°C Eco Mode)		
Working Environment — 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℃~ 35℃ when working under High Altitude Mode. Output of projector will be reduced to 50% if ambient temperature exceeds 35℃. 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.

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 Output①	6,300lm/6,600lm (Center)	7,300lm/7,600lm (Center)	8,300lm/8,600lm (Center)	9,000lm/9,300lm (Center)
Light Source Type	ALPD® Laser			
Life Source Lifetime⑥	20,000h			
Contrast②	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	≤ 600W
Power Consumption — Stand by	< 0.5W			
Orientation	360° installation			
Noise	35dB (standard mode)			
Structure — Measurements③	(L×W×H) 19.3×13.9×6.3'' (490×352×161mm)			
Structure — Weight④	≤28.6lbs(13kg)		≤30.8lbs (14kg)	
Working Environment — Temperature⑤	32°F~104°F (0-40℃)　95°F~104°F (35-40℃) Eco Mode			
Working Environment — 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℃~ 35℃ when working under High Altitude Mode. Output of projector will be reduced to 50% if ambient temperature exceeds 35℃. ⑥ The output of the projector will have decreased by approximately 50% around this time. Data from accelerated lab simula-tions. Actualtime may vary according to the operating modes, environment and other user behaviors.

M Series

Slim & Bright **M Series**

M Series Compact Installation Projectors

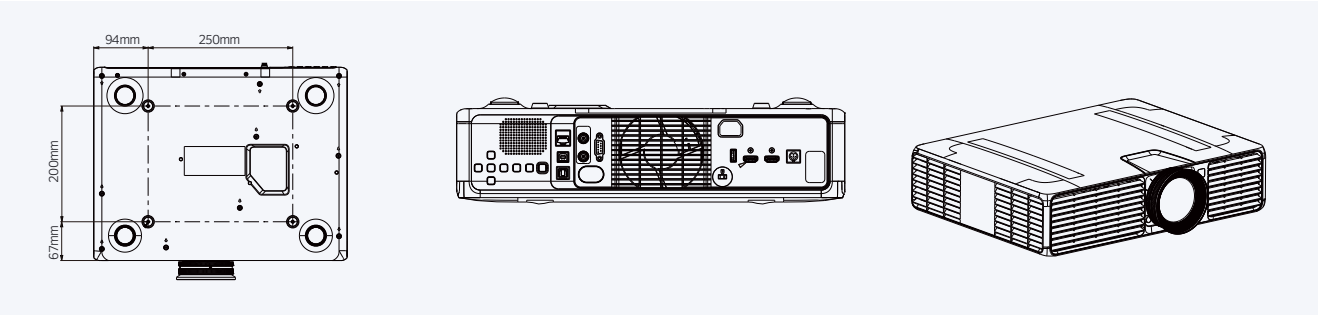| | Lm
5,200-6,200
Lumens | ALPD
ALPD® Laser
Light Source | 4K WUXGA
WUXGA、4K
Resolution | Compact
Body | Powered
Interchangeable Lenses | 3D
Support 3D
Functions | 360°
360°
Installation | Cinema Level
Reliability |

Model	AL-MU525A	AL-MU625A	AL-MK525A	AL-MK625A
Display Technology	DLP™x1, DLP™ projection system			
Panel Size	0.48" DMD		0.47" DMD	
Resolution	1,920×1,200, WUXGA		3,840×2,160, 4K	
Brightness Output[①]	5,200 lm	6,200 lm	5,200 lm	6,200 lm
Light Source Type	ALPD® Laser (Laser type: Class1)			
Life Source Lifetime[⑥]	20,000h			
Contrast[②]	100,000 :1			
Uniformity	90%			
Display Gamut	REC.709			
Optional Lenses	Optional Powered Interchangeable Lens:0.5:1, 0.7-0.9:1, 1.0-1.6:1 (Standard lens), 1.54-2.48:1			
Screen Size	80" ~ 300"			
Geometric Correction	Keystone: V: ±35°, H: ±35°, 4-point correction		Keystone: V: ±35°, H: ±35°, 8-point correction	
Optical Axis Shift	Vertical: ±100%, Horizontal: ±40%, powered			
Input Resolution	1,920 × 1,200		3,840 × 2,160	
I/O — Video Connection	HDMI×2, VGA×2		HDMI×2	
I/O — Audio Connection	AUDIO IN×1, AUDIO OUT×1		SPDIF×1	
I/O — Control Connection	LAN(RJ45)×1；RS232(DB9)×1；3D SYNC×2(in/out)；3D IR OUT×1		LAN(RJ45)×1；RS232(DB9)×1；USB×1；3D SYNC×2(in/out)；3D IR OUT×1	
Power Supply	100-240V AC, 50/60Hz			
Orientation	360°installation			
Noise	36dB (Standard)			
Power Consumption — Standard	≤450W	≤550W	≤450W	≤550W
Power Consumption — Stand by	<0.5W			
Structure — Measurement[③]	(L×W×H) 17.2×13.1×4.25"(438mm×334mm×108mm)			
Structure — Weight[④]	≤ 19.4 lbs (8.8kg)		≤ 20.3 lbs (9.2kg)	
Orientation — Temperature[⑤]	32°F~104°F (0-40°C)　95°F~104°F (35-40°C) Eco Mode			
Orientation — 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℃~ 35℃ when working under High Altitude Mode. Output of projector will be reduced to 50% if ambient temperature exceeds 35℃. 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.

94mm　250mm　200mm　67mm

U Series

Engineered for Small Spaces U Series

U Series Ultra Short Throw Installation Projectors

5,300 lumens	ALPD® Laser Light Source	Throw Ratio 0.25:1
10% Red Ratio	Offset Tolerance ±2cm	3D Support 3D Functions
Corner Keystone	Cinema Level Reliability	

| Model	AL-UH535A	AL-UK535A
Display Technology	DLP™x1, DLP™ projection system	
Panel Size	0.47" DMD	
Resolution	1,920×1,080, FHD	3,840×2,160, 4K UHD
Brightness Output①	5,000 lm (Center)	
Light Source Type	ALPD® Laser (Laser type: Class1)	
Life Source Lifetime⑥	20,000h (Standard Mode)	
Contrast②	100,000 :1	
Uniformity	85%	
Display Gamut	REC.709	
Lens Throw Ratio	0.25:1	
Screen Size	80" ~ 120"	100" ~ 150" (projection distance 21.65" ~ 32.68")
Keystone	Vertical: ± 25° horizontal: ± 6°; corner keystone	Vertical: ± 40° (auto/manual); horizontal: ± 15° (manual); corner keystone
Input Resolution	1,920×1,080	3,840×2,160
I/O	HDMI ×2/Video ×1/VGA ×2(IN&OUT)/3D Sync out ×1/3.5mini jack ×2(IN & OUT)/RCA ×2(L&R)/MIC ×1/RS232 ×1/RJ45 ×1/USB-B ×1	HDMI × 3 / 3.5 mini jack x 2 (IN & OUT) / SPDIF out x 1 / RJ45 x 1 / RS232 x 1 / USB-A x 3 / USB-B x 3
Power Supply	100-240V AC, 50/60Hz	
Power Consumption — Standard	≤350W	≤450W
Power Consumption — Stand by	< 0.5W	
Orientation	360°installation	
Noise	35dB (Standard)	
Structure — Measurements③	(L×W×H) 19.2×16.6×6"(487mm×422mm×152mm)	
Structure — Weight④	21.23 lbs (9.65kg)	21.12 lbs(9.6kg)
Working Environment — Temperature⑤	32°F~104°F (0-40°C) 95°F~104°F (35-40°C) Eco Mode	
Working Environment — 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℃~ 35℃ when working under High Altitude Mode. Output of projector will be reduced to 50% if ambient temperature exceeds 35℃. 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.

| Resolution	Projection Image Size (in)	Screen Size (mm)	Distance from the center of the lens to screen A(mm)	Relative height B (mm)	Distance from the front of the projector to screen C(mm)
1080P 4K	80	1771×996	395±12	304±16	56±12
	90	1992×1121	451±14	332±18	112±14
	100	2214×1245	496±15	360±20	157±15
	120	2657×1494	606±18	415±24	267±18
	150	3321×1868	761±22	498±30	422±22
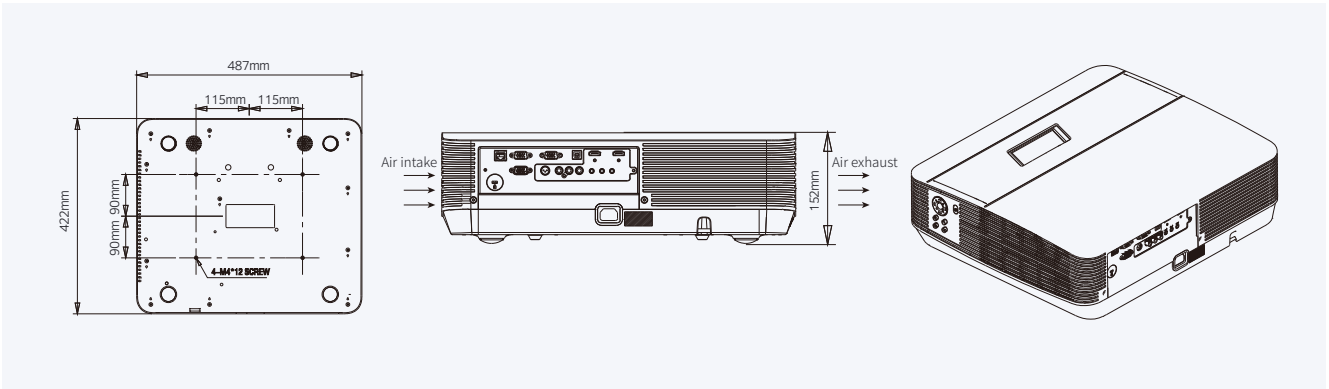
Applications

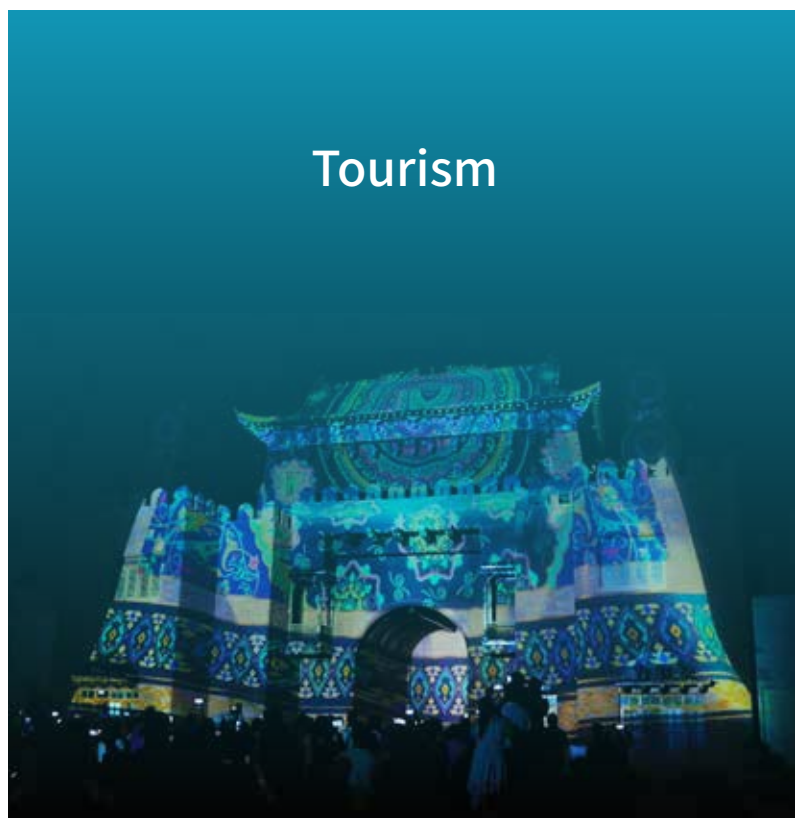Outdoor Light Show
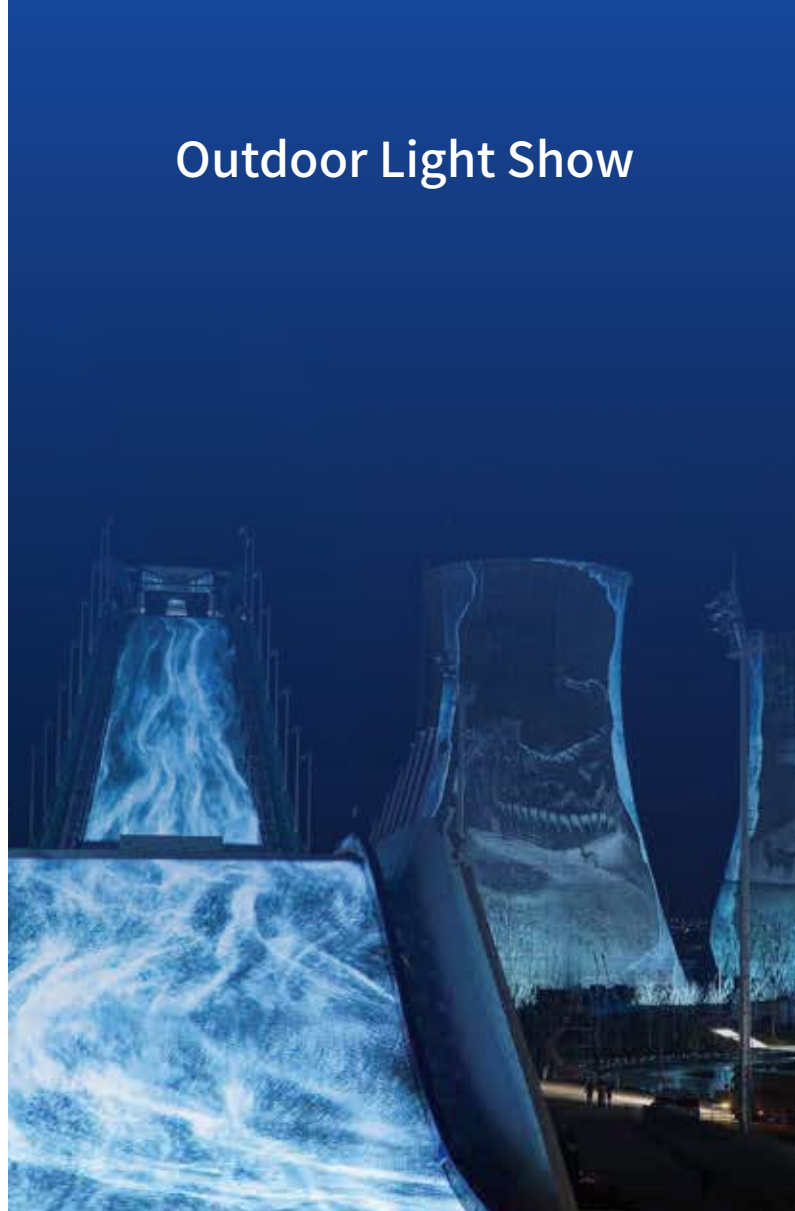
New Media Arts
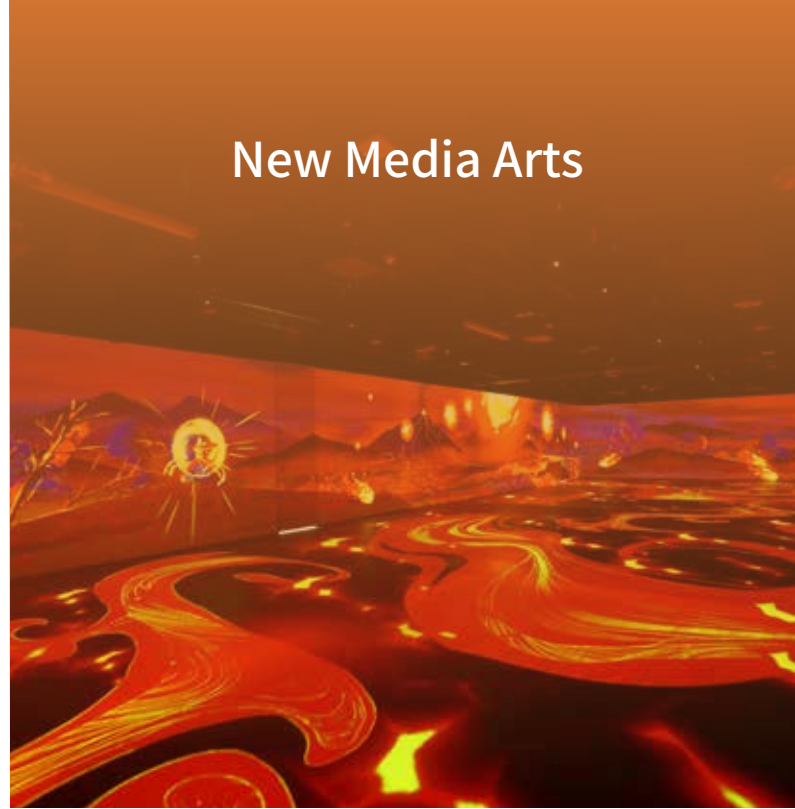
Staging
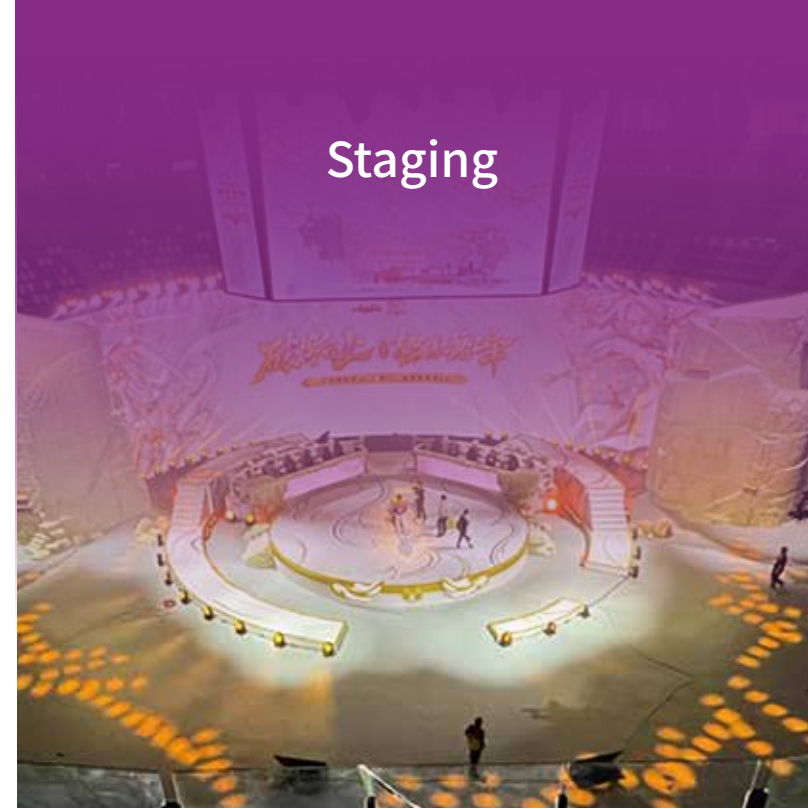
Immersive Exhibition

Tourism

Outdoor
Light
Show

Outdoor
Light
Show
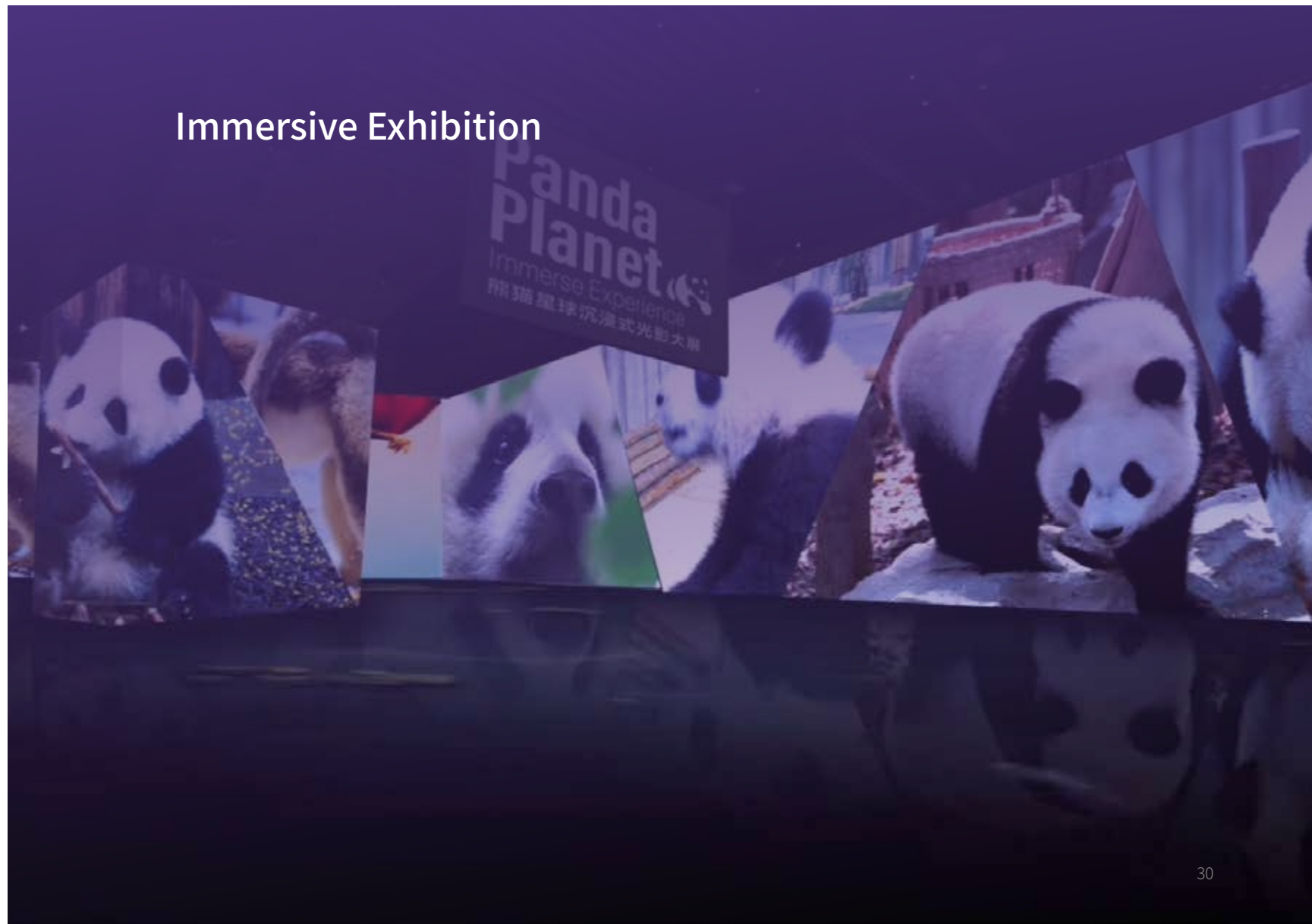
Shougang Winter Olympics Light and Shadow Gala

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.
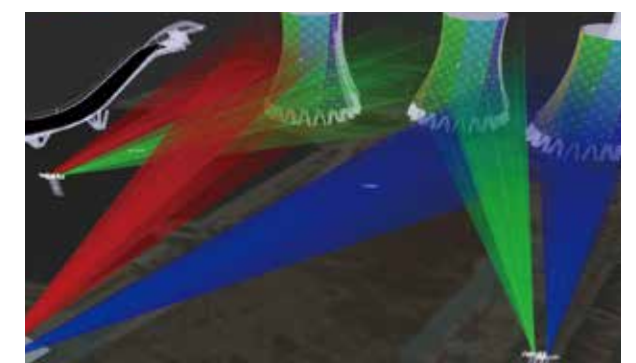
14,000m² Integrated Laser Projection, Creating a New Landmark

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.

Outdoor
Light
Show

Outdoor
Light
Show

Lantern Festival
Night in the Forbidden City

Appotronics - Taihe Gate 3000m² Projection Show

During the 2019 Spring Festival, the Palace Museum organized a grand exhibition called "Latern Festival Night in the Forbidden City." The exhibition featured a 3000m² outdoor laser projection show at the Taihe Gate, using 20 laser projectors based on ALPD® 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.
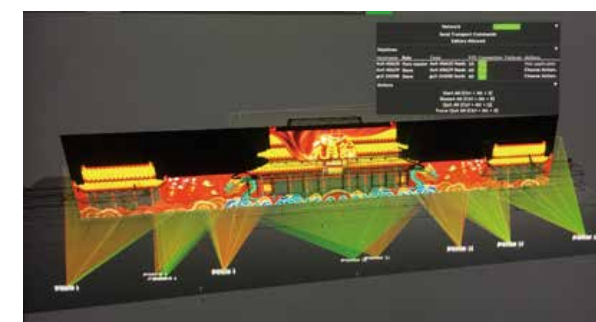
After multiple on-site surveys, the design included 2pcs 60,000-lumen laser projectors and 18 pcs 13,000-lumen laser projectors, divided into 4 groups projecting from a distance of 65-80 meters from the Taihe Gate. A playback control platform was also set up for 3D outdoor projection show simulation rehearsals.

2019 Spring Festival "Future City"

"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.

In 2019, at Shenzhen sub-venue of Spring Festival Gala's , a program titled "Future City" featured a 2000m² 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.

Outdoor
Light
Show

Outdoor
Light
Show

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.

Outdoor
Light
Show

Outdoor
Light
Show

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 southeastern 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.
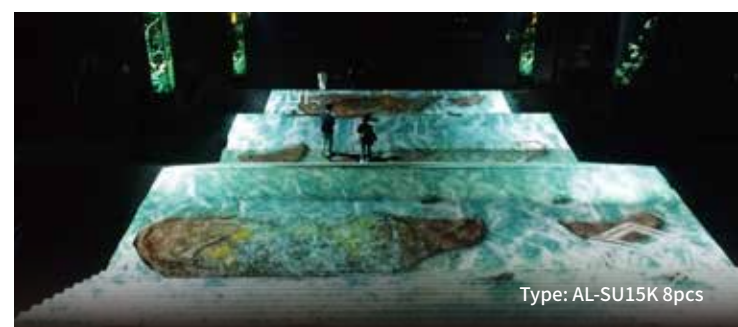
Type: AL-SU15K 8pcs

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.

New
Media
Arts

New
Media
Arts

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.
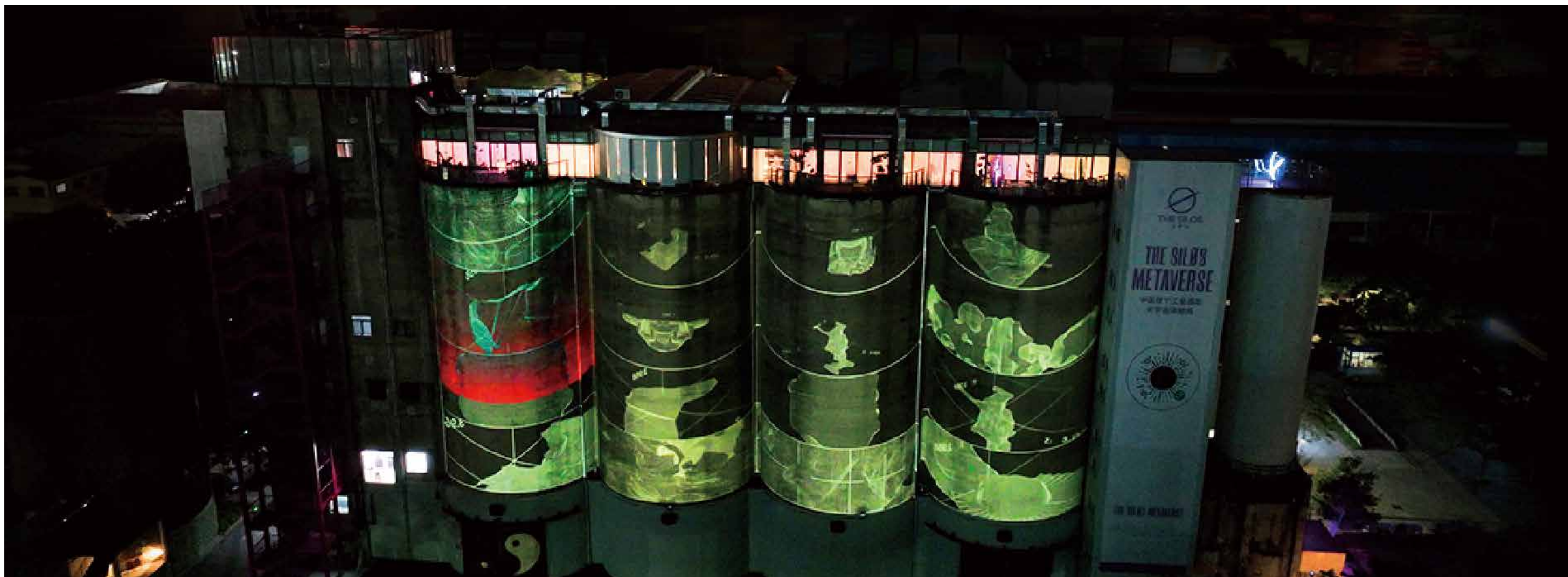
Metaverse Experience Center at the Big Silo

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.

New
Media
Arts

New
Media
Arts
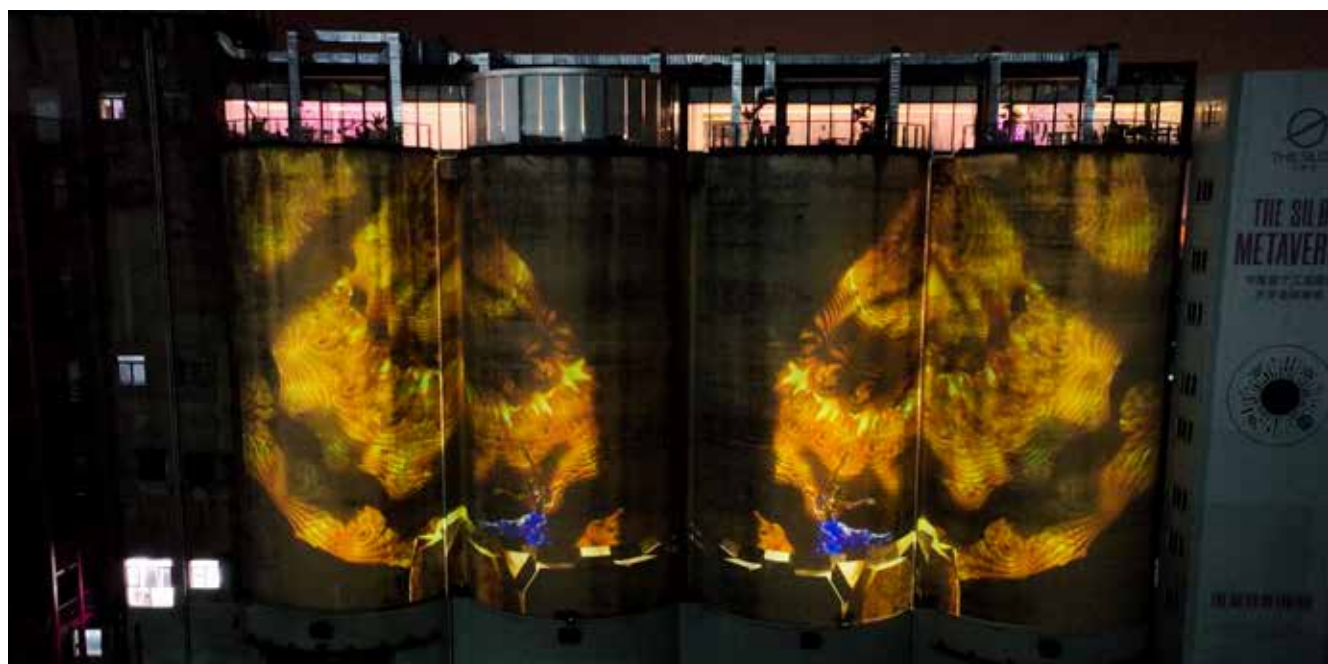
Fahai Temple
Mural Art Museum

The murals of Fahai Temple are among the most out-
standing 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.

New
Media
Arts

New
Media
Arts

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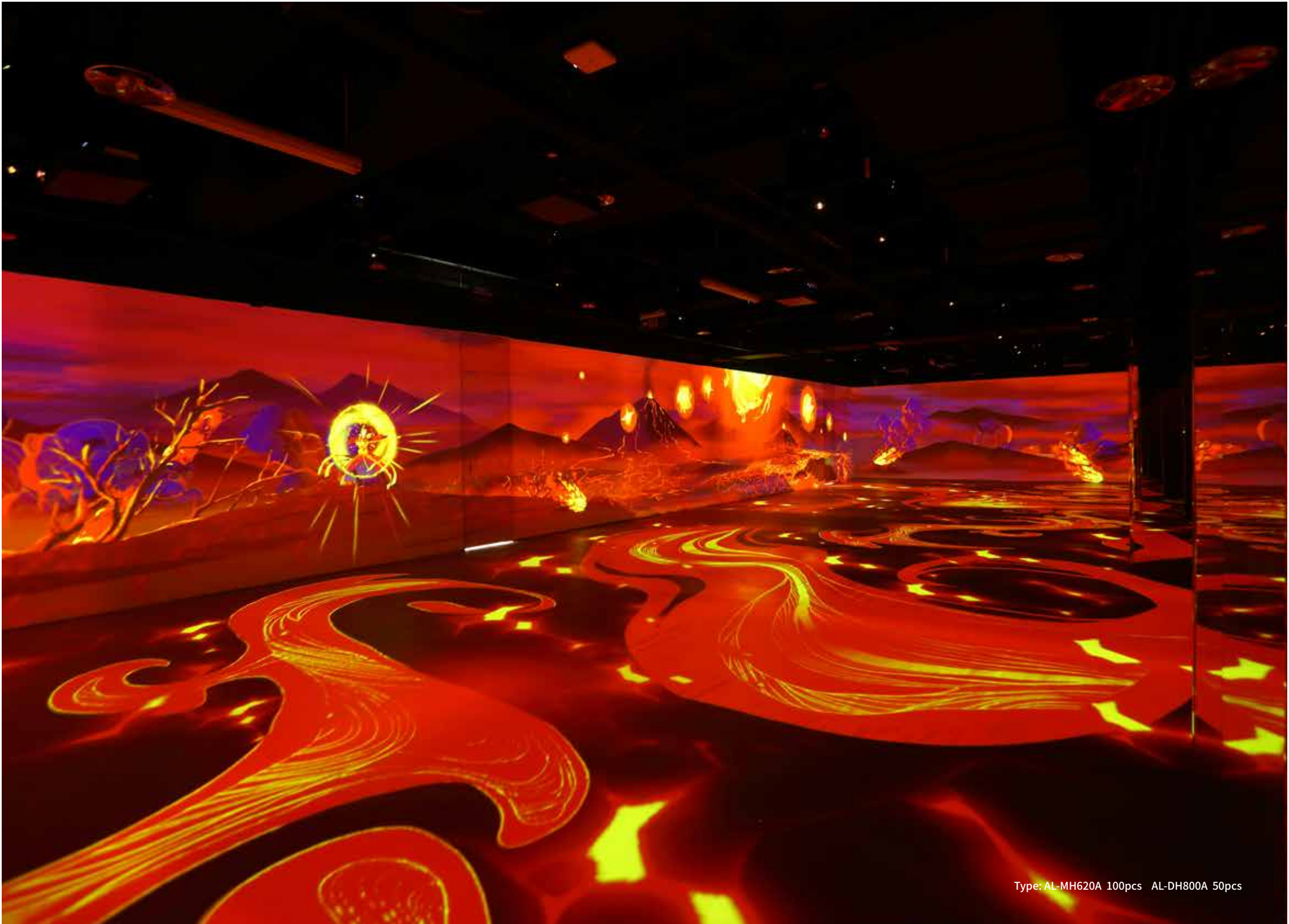
Type: AL-MH620A 100pcs   AL-DH800A 50pcs

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."

Type: AL-SU13K 6pcs

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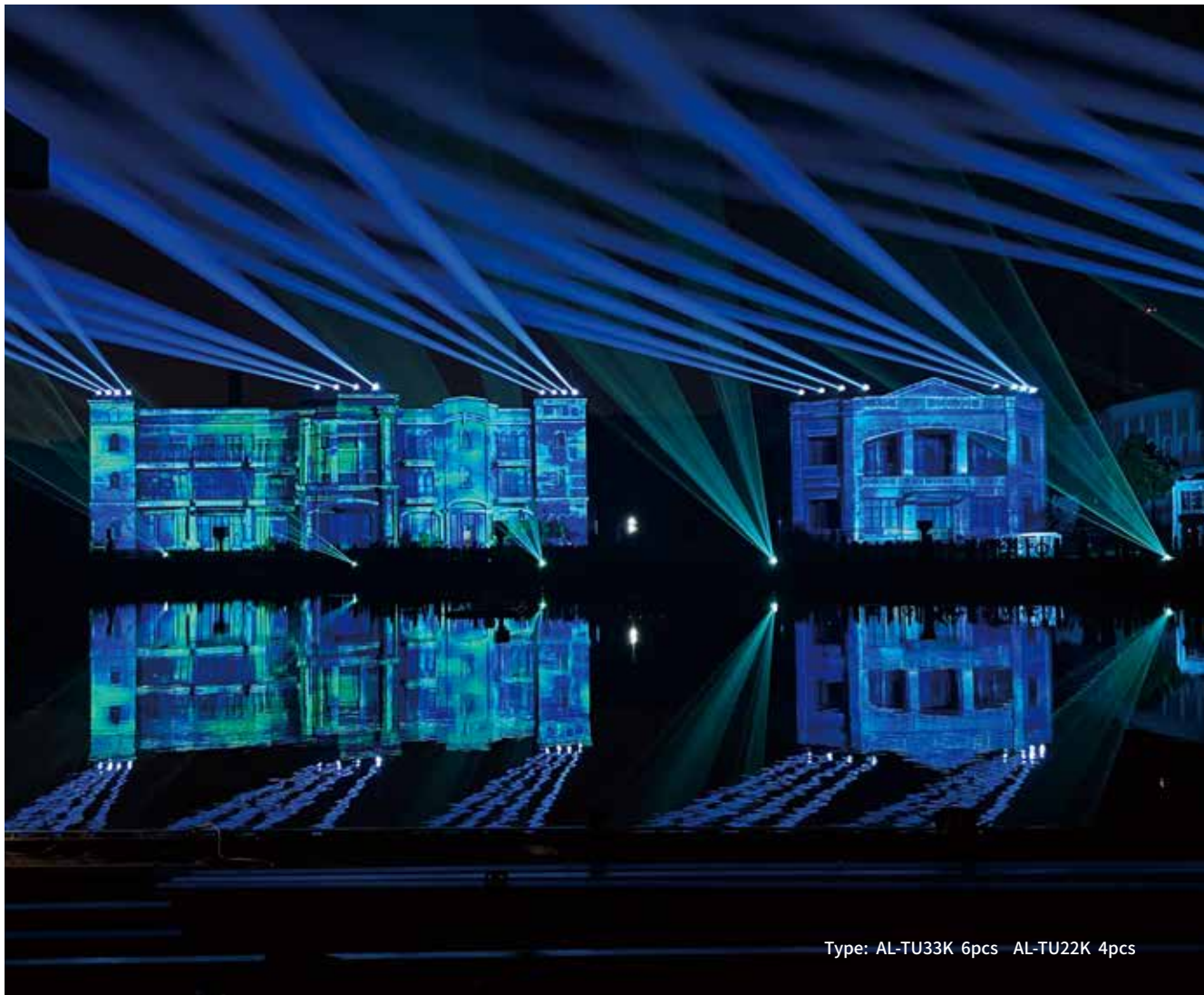
Type: AL-TU33K 6pcs   AL-TU22K 4pcs

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.
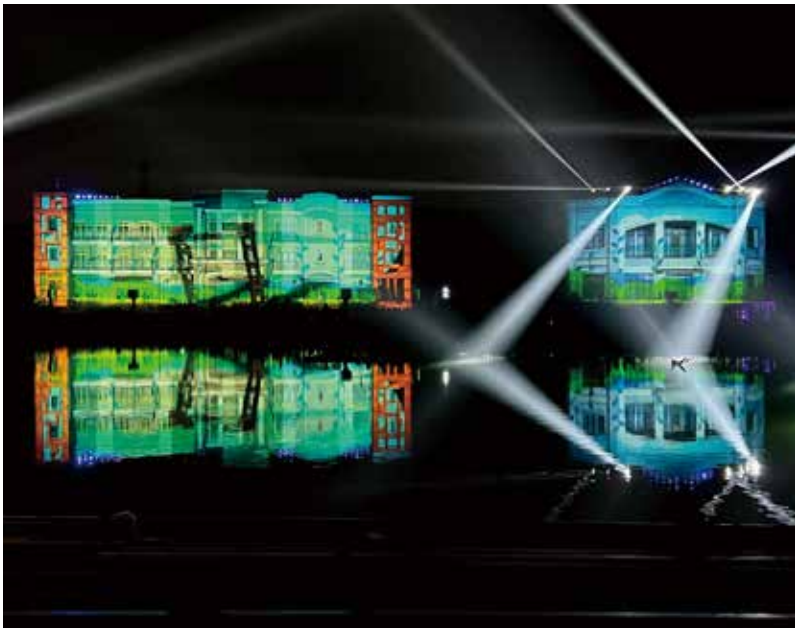
Type: AL-TU33KA 6pcs

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.

"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 scrims, 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

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

Stage Performance – Finals of Chinese Westward Journey Mobile Game Championship

Tsinghua University 110th Anniversary Light Show The Great Masters

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.

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 Series 4K resolution

Screen Size 16 : 9				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 angle(m)	wide angle(m)	Far angle(m)	Wide angle(m)	Far angle(m)	Wide angle(m)	Far angle(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

M Series WUXGA resolution

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 angle(m)	Wide angle(m)	Far angle(m)	Wide angle(m)	Far angle(m)	Wide angle(m)	Far angle(m)
60	1.52	1.29	0.81	0.65	0.91	1.16	1.29	2.07	1.99	3.21
80	2.03	1.72	1.08	0.86	1.21	1.55	1.72	2.76	2.65	4.27
100	2.54	2.15	1.35	1.08	1.51	1.94	2.15	3.45	3.32	5.34
120	3.05	2.59	1.62	1.29	1.81	2.33	2.59	4.14	3.98	6.41
150	3.81	3.23	2.02	1.62	2.26	2.91	3.23	5.17	4.98	8.01
180	4.57	3.88	2.42	1.94	2.71	3.49	3.88	6.20	5.97	9.62
200	5.08	4.31	2.69	2.15	3.02	3.88	4.31	6.89	6.63	10.68
250	6.35	5.39	3.37	2.69	3.77	4.85	5.39	8.62	8.29	13.35
300	7.62	6.46	4.04	3.23	4.52	5.82	6.46	10.34	9.95	16.03

G/G Pro & 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

U Series

Screen — A Distance from the lens center to the screen — Relative Height B — C — Distance between the projector's front end and the screen

Resolution	Screen Specifications (inch)	(mm)	Screen Dimensions (mm)	Distance from the lens center to the screen A (mm)	Relative Height B (mm)	Distance between the projector's front end and the screen C (mm)
4K	80	2032	1771×996	395±12	304±16	56±12
	90	2286	1992×1121	451±14	332±18	112±14
	100	2540	2214×1245	496±15	360±20	157±15
	120	3048	2657×1494	606±18	415±24	267±18
	150	3810	3321×1868	761±22	498±30	422±22

D Series

Screen Size 16 : 9				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	1.33	0.75	0.82	1.06	1.63	2.62
80	2.03	1.77	1.00	1.10	1.42	2.18	3.49
100	2.54	2.21	1.25	1.37	1.77	2.72	4.36
120	3.05	2.66	1.49	1.65	2.13	3.27	5.23
150	3.81	3.32	1.87	2.06	2.66	4.08	6.54
180	4.57	3.99	2.24	2.47	3.19	4.90	7.85
200	5.08	4.43	2.49	2.75	3.54	5.45	8.72
250	6.35	5.54	3.11	3.43	4.43	6.81	10.90
300	7.62	6.64	3.74	4.12	5.31	8.17	13.08

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

F Pro Series

Screen Size 16 : 10				AL-EL050FR	AL-EL062FR	AL-EL080FR	AL-FL123MA	
Diagonal		Screen Width	Screen Height	0.5	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)	Wide angle(m)	Far angle(m)
60	1.52	1.29	0.81	0.65	0.80	1.03	1.59	2.55
80	2.03	1.72	1.08	0.86	1.07	1.38	2.12	3.40
100	2.54	2.15	1.35	1.08	1.34	1.72	2.65	4.24
120	3.05	2.59	1.62	1.29	1.60	2.07	3.18	5.09
150	3.81	3.23	2.02	1.62	2.00	2.59	3.97	6.37
180	4.57	3.88	2.42	1.94	2.40	3.10	4.77	7.64
200	5.08	4.31	2.69	2.15	2.67	3.45	5.30	8.49
250	6.35	5.39	3.37	2.69	3.34	4.31	6.62	10.61
300	7.62	6.46	4.04	3.23	4.01	5.17	7.95	12.73

S Series

Screen Size 16 : 10				AL-EL050FR	AL-EL062FR	AL-EL080FR	AL-SL123MA	
Diagonal		Screen width	Screen Height	0.5	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)	Wide angle(m)	Far angle(m)
60	1.52	1.29	0.81	0.65	0.80	1.03	1.59	2.55
80	2.03	1.72	1.08	0.86	1.07	1.38	2.12	3.40
100	2.54	2.15	1.35	1.08	1.34	1.72	2.65	4.24
120	3.05	2.59	1.62	1.29	1.60	2.07	3.18	5.09
150	3.81	3.23	2.02	1.62	2.00	2.59	3.97	6.37
180	4.57	3.88	2.42	1.94	2.40	3.10	4.77	7.64
200	5.08	4.31	2.69	2.15	2.67	3.45	5.30	8.49
250	6.35	5.39	3.37	2.69	3.34	4.31	6.62	10.61
300	7.62	6.46	4.04	3.23	4.01	5.17	7.95	12.73