



APPOTRONICS®

S Pro New Series

Defining Color Perfection

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

20,000lm



AL-SK20KAP / AL-SU20KAP



ALPD®5.0
RGBX® Full-Color Laser



4K+ (3,840×2,400)
WUXGA (1,920×1,200)



120% Rec.709, 100% DCI-P3,
90% BT.2020



9 Optional Lenses
Throw Ratio 0.36~6.8:1

Flagship 4K+ Imaging Performance

- ▶ ALPD®5.0 RGBX® full-color laser technology with RGB laser and phosphor light source, supporting 120% Rec.709, 100% DCI-P3, and 90% BT.2020 Color Gamut
- ▶ Supports 3,840×2,400@60Hz
- ▶ Native contrast ratio ≥1600:1 for deep blacks and vivid image depth
- ▶ Brightness uniformity ≥95%
- ▶ Red ratio ≥22%, enhancing color accuracy and visual vibrancy
- ▶ Supports HDR10

Robust Reliability

- ▶ Dual HDMI ports support signal backup. If the signal from the main port is interrupted, the projector can automatically switch to the backup port signal (≤150ms) without image loss
- ▶ Multi-laser modules architecture ensures stable performance
- ▶ Fully sealed light engine design with IP5X
- ▶ Supports 20,000 hours lifespan

Flexible Installation Compatibility

- ▶ Supports 360° installation, easily adapting to complex applications
- ▶ Geometric correction including trapezoidal, curved surface, and multi-point calibration (up to 33×33 points)
- ▶ 9 optional lenses, throw ratios range from 0.36:1 to 6.8:1
- ▶ Supports 100~240V AC, enables operating at low voltage without brightness loss
- ▶ Super compact modular, designed for quick assembly, effortless maintenance
- ▶ Supports both active and passive 3D formats for immersive viewing experiences
- ▶ Supports motorized mechanical shutter

APCS

APCS: Appotronics Control Software, easily manage your projectors and enhance functionality

- ▶ Automatically detects devices on the local area network (LAN)
- ▶ Supports RS232 and RJ45 command control
- ▶ Supports schedule setting function
- ▶ Powerful multi-point geometric correction
- ▶ Real-time operational status monitoring and proactive error warnings
- ▶ Supports firmware upgrade and configuration file import

S Pro Specification

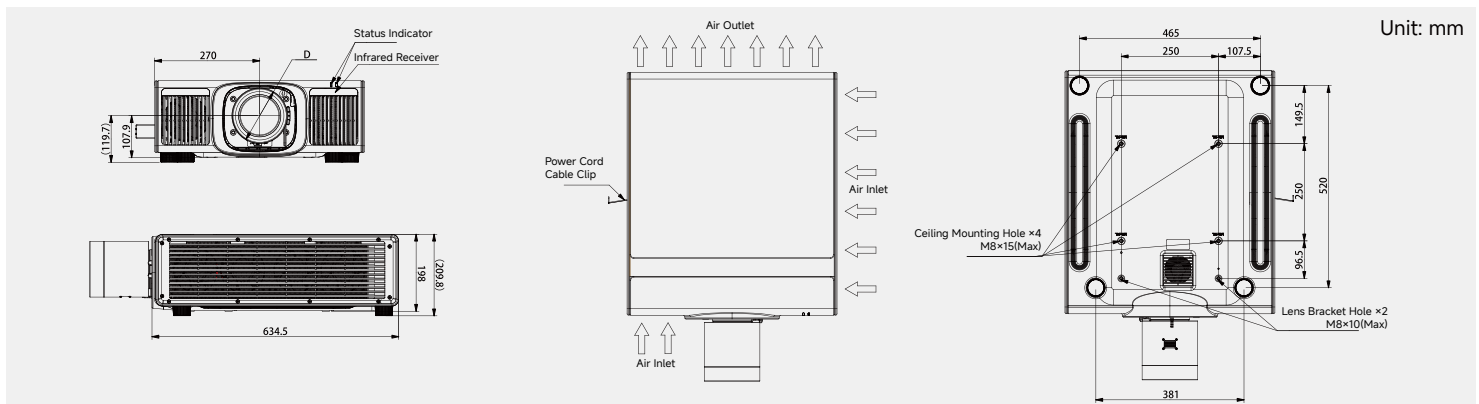
Model	AL-SK20KAP	AL-SU20KAP
Display Technology	DLP™ chip×1, DLP™ projection system	
Panel Size	0.8"DMD	
Resolution	3,840×2,400	1,920×1,200
Brightness ①	20,000lm/21,000lm (Center)	
Light Source	ALPD® 5.0 RGBX® Full-Color Laser	
Light Source Lifetime ^②	20,000h	
Contrast	Native Contrast: ≥1,600:1 Full On/full Off: ≥100,000:1	
Uniformity	≥95%	
Color Gamut ③	120% Rec709 (Default), 100% DCI-P3, 90% BT.2020	
Optional Lenses	0.36:1; 0.53~0.63:1; 0.7~0.85:1; 0.85~1.1:1; 1.14~1.51:1; 1.5~2.4:1; 1.69~2.42:1; 2.4~3.8:1; 3.8~6.8:1	
Blending	Horizontal and vertical edge blending	
Screen Size	100"~800"	
Geometric Correction	Corner, keystone, curve, multi-point (up to 33×33 points)	
Lens Shift ④	Vertical: ±50%, Horizontal: ±20%, Motorized	
Signal Interfaces	Input Signal: HDMI×2 (4K/60P); DVI (1,920×1,200/60P); HDBaseT (1,920×1,200/60P); 3D SYNC Signal: 3D SYNC in; 3D SYNC out; IR 3D out Dynamic Contrast SYNC Signal: MULTI SYNC in, MULTI SYNC out	
Control Interfaces	Ethernet Port: RJ45 Serial Port: RS232 Infrared Extension Cable Port: Remote IR in/out Debug Port: USB-B	
Other Interfaces	USB Expansion Port: USB-A 12V External Power Supply Port: POWER 12V ==1A	
Power Supply	100-240V AC 50/60Hz	
Power Consumption	Typical Power ⑤	AC 100V~240V: 2000W
	Standby Power ⑥	0.5W
Installation	360° Installation	
Operation Noise ⑦	45dB (Standard)	
Dimensions ⑧	625mm×533mm×178mm (L×W×H: 24.6"×21"×7")	
Weight ⑨	35kg (77.2lbs)	
Temperature ⑩	0~40°C (32°F~104°F)	
Storage Temperature	-10~+60°C (14°F~140°F)	
Humidity	10%~80% RH (No Condensation)	

① Comply with an ISO21118 standard.
 ② Around this time, light output will have decreased by approximately 50%. Actual time may vary according to the operating modes, environment and other user behaviors.
 ③ When DCI-P3 or BT2020 mode is selected, the brightness will decrease.
 ④ Lens shift support:
 AL-XL070FR, AL-XL085FR, AL-XL110MA, AL-XL150MA, AL-XL169MA, AL-XL240LA, AL-XL380LA: Vertical ±50%, Horizontal ±20%.
 AL-XL053FR: Vertical ±20%, Horizontal ±8%. AL-XL036FR: TBD
 ⑤ Measuring conditions: Operating on the Standard model, ambient temperature 25°C, 100~240V AC, 50/60 Hz.
 ⑥ Measuring conditions: In the Power Settings menu, select Power Standby ECO option, then turn off the projector into standby mode.
 ⑦ The test data was obtained at the ambient temperature of 25°C.
 ⑧ Structural protrusions and lens not included.
 ⑨ Lens not included.
 ⑩ Light source brightness may decrease depending on ambient temperature. When projector is operating at high temperature or at high altitude, brightness will decrease correspondingly. Light output of projector will be reduced to 50% if ambient temperature exceeds 40°C (104°F).

Optional Lenses

Model	AL-XL036FR	AL-XL053FR	AL-XL070FR	AL-XL085FR	AL-XL110MA	AL-XL150MA	AL-XL169MA	AL-XL240LA	AL-XL380LA
Throw Ratio	0.36:1	0.53~0.63:1	0.7~0.85:1	0.85~1.1:1	1.14~1.51:1	1.5~2.4:1	1.69~2.42:1	2.4~3.8:1	3.8~6.8:1
Zoom/ Focus Mode	Motorized Focus	Motorized Zoom & Focus	Motorized Zoom & Focus	Motorized Zoom & Focus	Motorized Zoom & Focus	Motorized Zoom & Focus	Motorized Zoom & Focus	Motorized Zoom & Focus	Motorized Zoom & Focus

Product Dimensions



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