APPOTRONICS®

S Smart Series

Ignites Your Immersive Experience with Full Spectrum Visual

AL-SK15KAS / AL-SK13KAS / AL-SK10KAS
AL-SU15KAS / AL-SU13KAS / AL-SU10KAS

ALPD®5.0
RGBX Full Spectrum Laser

4K+ / WUXGA

≥110% Rec.709

Expandable Interfaces

10,000 – 15,000lm

Super Compact Design

NFC Module

Spectacular 4K Visuals Delivering True Immersive Experience

- With its all-new RGBX laser engine, the Ssmart features wide color gamut with more than 11% red light ratio at 4K/WUXGA
- Capable of achieving over 110% of Rec.709, your immersive content will be rich, super accurate, and visually stunning.

Simplified Workflow for Efficient Operation

- Super compact design with full range in-house designed optional lenses, tailored to diverse application scenarios.
- NFC pre-configuration slashes debugging time, simplifying initial setup.
- Built-in multi-mode geometric corrections adapts flawlessly to irregular imaging surfaces.
- The Appotronics operating system and control software work seamlessly together to provide smooth operation and remote management of the equipment for maximum efficiency.

Enhanced Reliability in Harsh Environments

- All-new patented internal cooling technology manages the operating temperature of color wheel and motor for stability.
- The signal backup functionality ensures exceptional system reliability by switching to the backup channel seamlessly when needed.
- IP6X rated dust-proof optical engine enables maintenance-free operation.

Technical Specification

Model	AL-SK15KAS	AL-SK13KAS	AL-SK10KAS	AL-SU15KAS	AL-SU13KAS	AL-SU10KAS
Display Technology	DLP*1, DLP Projection System					
Panel Size	0.8″DMD					
Resolution	3840×2400			1920×1200		
Brightness① Output	15000lm/16000lm (Center)	13000lm/14000lm (Center)	10000lm/11000lm (Center)	15000lm/16000lm (Center)	13000lm/14000lm (Center)	10000lm/11000lm (Center)
Light Source Type	ALPD5.0 Full Color Laser Light Source					
Light Source Lifetime ⑥	20000h					
Contrast②	≥100,000:1					
Uniformity	≥92%					
Display Gamut⑦	≥110% Rec.709					
Edge Blending	Horizontal & vertical edge blending					
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					
Screen Size	70″~800″					
Geometric Correction	Corner keystone, 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) 3D Syn Signal Interfaces: 3D SYNC in*1, 3D SYNC out*1, IR 3D out*1 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 12V External Power Supply Port: Power 12V ⎓ 1A					
Power Supply	100~240VAC 50/60Hz					
Power Consumption – Standard	≤1050W	≤800W	≤700W	≤1050W	≤800W	≤700W
Power Consumption – Standby	≤0.5W (ECO Mode)					
Orientation	360° Installation					
Noise⑧	≤40dB	≤38dB	≤37dB	≤40dB	≤38dB	≤37dB
Structure – Measurements③	538×510×190mm					
Structure – Weight④	28.5Kg					
Working Environment – Temperature⑤	0°C- 40°C					
Working Environment – Storage Temperature	-10°C- 60°C					
Working Environment – Humidity	20%-80% (No Condensation)					

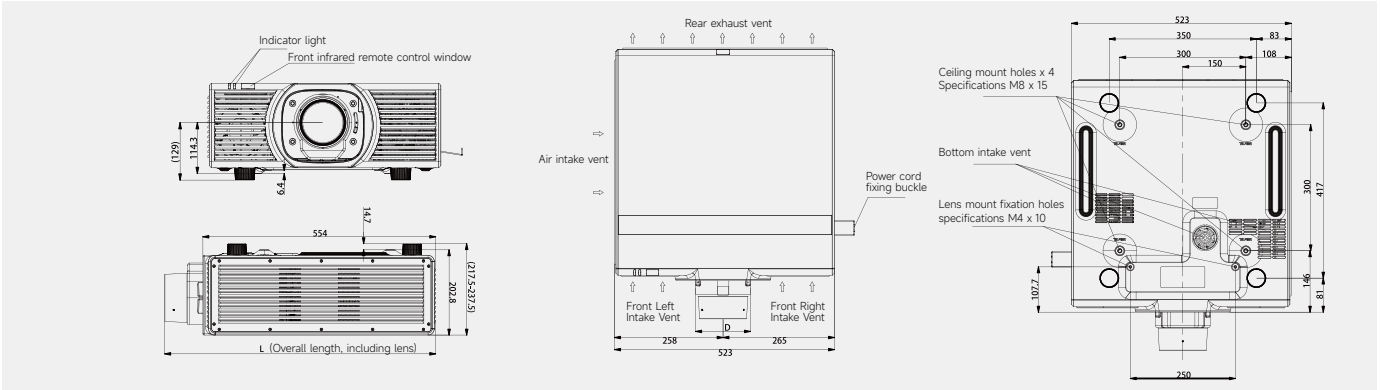
①Based on ISO21118 standard. ② Full white/full black. ③ Not including protruding parts. ④ Including standard lens. Average value may vary from individuals. ⑤ Operation temperature will be 0°C-35°C when working under high altitude condition. Likewise, projection brightness will be reduced 50% if the ambient 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.

Optional Lenses

*Please contact your local sales for availability of AL-XL036FR, AL-XL053FR, AL-XL380LA

Model	AL-XL036FR	AL-XL053FR	AL-XL070FR	AL-XL085FR	AL-XL110MA	AL-XL150MA	AL-XL169MA	AL-XL240LA	AL-XL380LA
Type	Short focus	Short focus	Short focus	Short focus	Standard	Standard	Telephoto	Telephoto	Telephoto
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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