



APPOTRONICS®

Color
Superlative



All-New S Series Large Venue Projectors

- Superior Color Performance
- Easy to Install
- Cinema Level Reliability



Superior Color Performance

13000-15000 lumens

RGB primary-colors

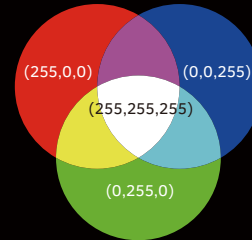
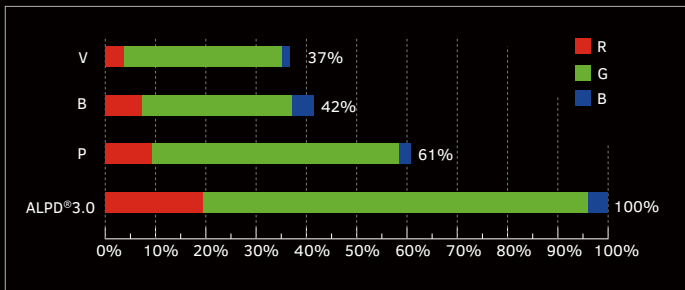
Appotronics has creatively applied the RGB primary-colors technology in 1-Chip DLP® system. The RGB 3-segment color wheel system has yield superior picture performance at 100% color brightness.



(RGB primary colors performance)

Color brightness comparison

Color brightness is a key standard for consumers to evaluate the color performance of their projectors. Lower the color brightness, lower color reproducing capability a projector will have under the same brightness. The all new S series have 100% color brightness which surpass all competitors at the same level using similar platforms.



Color brightness = red field brightness+green field brightness+blue field brightness
Appotronics S Series : color brightness = white field brightness

Red ratio 16%-18%, higher saturation.

Most 1-DLP laser projectors have only a red ratio around 7%. Resulted in gloomy red color reproduction. The S series large venue machines, based on the patented ALPD technology, yield over 16% red ratio.

TI Color Ratios Recommendation

	Color Ratios		
	Good	Medium	Fail
R / W	>10%	10%-6%	<6%
G / W	>40%	40%-30%	<30%
B / W	>3%	3%-1%	<1%
C / W	>43%	43%-31%	<31%
M / W	>13%	13%-7%	<7%
Y / W	>80%	80%-36%	<36%

Red Color Ratios=6~7%



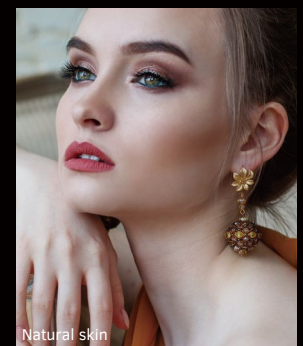
Red Color Ratios>10%



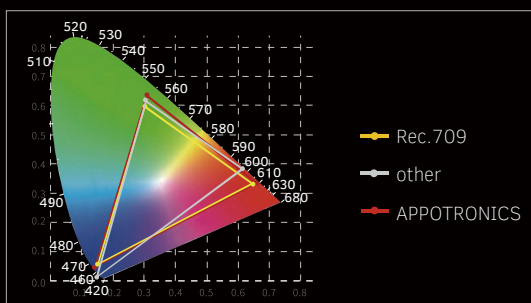
Red Color Ratios around 7%



Red Color Ratios around 16%



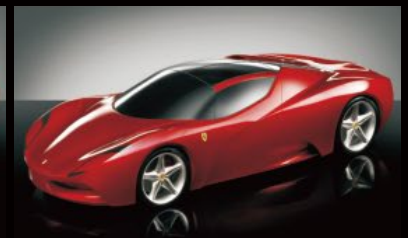
Coverage beyond Rec.709. Precise color rendition, higher stability



Red coordinates deviates from Rec.709 , orangish red



Red coordinates < Rec.709



Red coordinates > Rec.709

Higher Flexibility in Installations

Optional lens

6 optional lens can adapt to all kinds of installation environments. All lens have powered large scale vertical and horizontal shift.



Light weight design

All-new light weight design has cut the weight of the system for over 9kg.

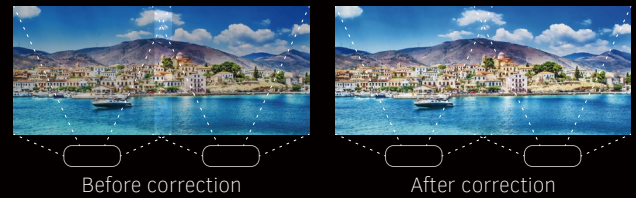


Multiple color correction technology provides high uniformity in edge blending.



Built-in geometric correction and wrapping

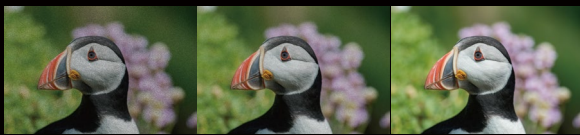
Advanced geometric correction enables projection onto spherical, cylindrical and other non-flat surfaces.



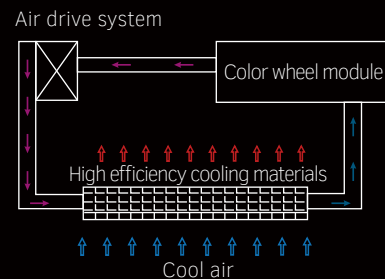
Cinema-Level Reliability

All-sealed light engine provides complete dust free, filter free structure.

Dust 2.5mm	Dust 1.0mm	Dust free
IP3X	IP4X	IP5X



All-new patented inner loop color wheel cooling system.

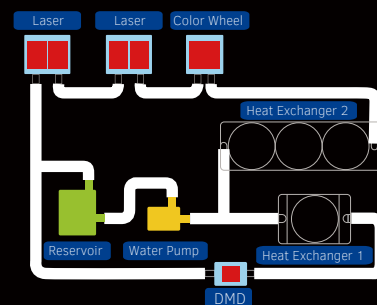


Note: Solid arrows indicating the internal air flow. Dotted arrows indicating the ambient air flow.

Life span over 20,000 hours.

- ALPD® is the only laser technology adopted and proven in, mission-critical situations, including cinemas, command centers and control rooms.
- The first 2,000 lumen laser video wall has run 7*24 since Oct, 2011.
- The first 20,000 lumen DCI ALPD® laser cinema projector has been put in service July 10th, 2014 and has amassed over 20,000 hours of use since.
- Duo optical engine backup to ensure true 7*24 ability.

Powerful duo liquid cooling system provides stability even at 40°C.



APPOTRONICS PROJECTOR SPECIFICATION

Model		AL-SU13KA	AL-SU15KA
Display Technology		DLP™x1, DLP™ projection system	
Panel Size		0.67"DMD	
Resolution		1,920×1,200, WUXGA	
Brightness Output ^①		13,000lm (ANSI) / 13,800lm (Center)	15,000lm (Center)
Light Source Type		ALPD® Laser (Laser type: Class1)	
Life Source Lifetime ^⑥		20,000h (Standard Mode)	
Contrast ^②		100,000 :1	
Uniformity		90%	
Display Gamut		REC.709	
Edge Blending		Horizontal & 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 into 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
	Stand by	Power saving 0.5W/ Stand by 7W	
Orientation		360°installation	
Noise		35dB (ECO)/39dB (Standard)	
Structure	Measurements ^③	(L×W×H) 24.4×21×7.1" (620×535×180mm)	
	Weight ^④	13.05lbs (28.7kg)	
Working Environment	Temperature ^⑤	32°F~104°F (0-40°C) 95°F~104°F (35-40°C Eco Mode)	
	Humidity	20%~80% (no condensation)	
<p>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.</p>			

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Disclaimer:

- All brightness/contrast values listed are based on ISO2118 standard and are the average value of all shipped products.
- 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.
- All data listed are based on lab test values. Actual value may differ due to external environments.
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