APPOTRONICS®

Engineered for Small Spaces

U Series Ultra Short Throw Installation Projectors

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

ALPD®

Superior Color Performance

5,300 lumens

RGB primary-colors

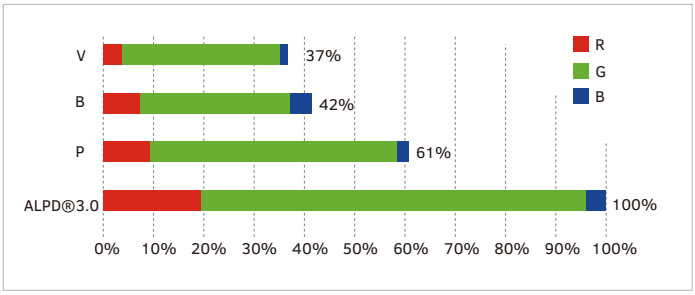
Appotronics has creatively applied the RGB primary-colors technology in 1-Chip DLP® system. The RGB 3-segment color wheel system has yield superior picture performance at 100% color brightness.

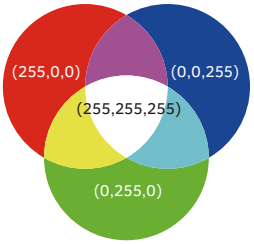
CLO=100% CLO=70% CLO=50% CLO=30%

(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

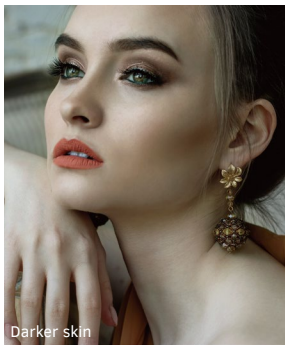
Red ratio 10%, higher saturation.

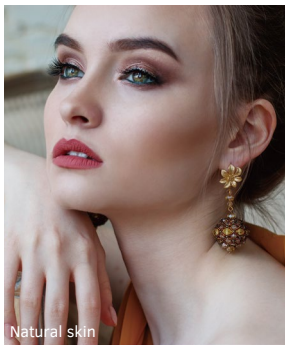
Most 1-DLP laser projectors have only a red ratio around 7%. Resulted in gloomy red color reproduction. The U series large venue machines, based on the patented ALPD technology, yield over 10% red ratio.

TI Color Ratios Recommendation

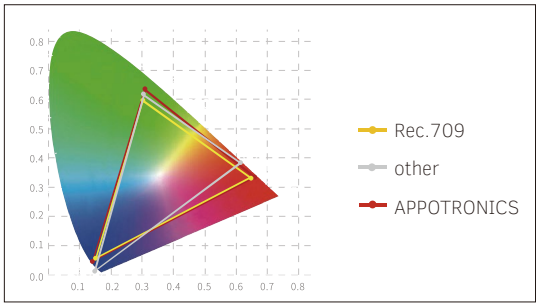
Color Ratios			
	Good	Medium	Fail
R / W	>10%	10%-6%	<6%
G / W	>40%	40%-30%	<30%
B / W	>3%	3%-1%	<1%
C / W	>43%	43%-31%	<31%
M / W	>13%	13%-7%	<7%
Y / W	>80%	80%-36%	<36%

Red Color Ratios=6~7%



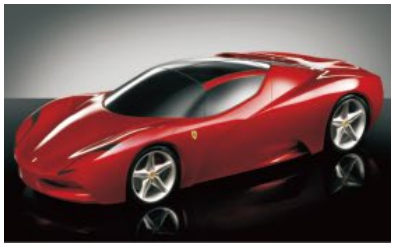


Coverage beyond Rec.709. Precise color rendition, higher stability



Red coordinates deviates from Rec.709 , orangish red

Red coordinates < Rec.709

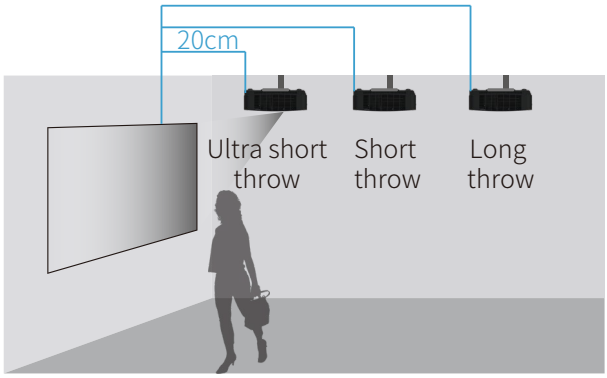


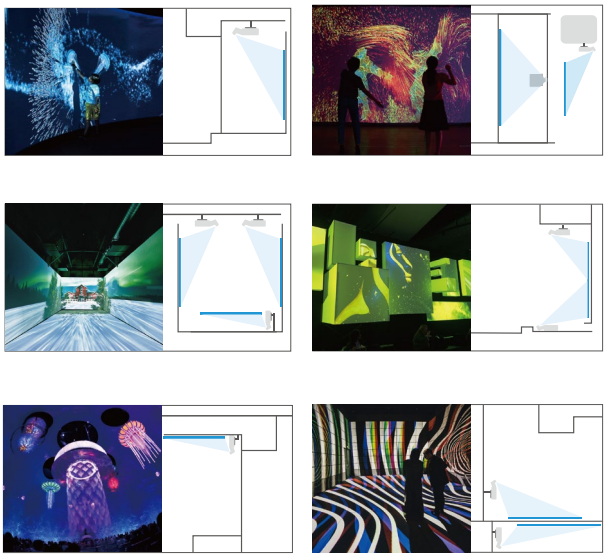
Red coordinates > Rec.709

Designed for Small Space

0.25:1 Throw Ratio

Can cover 100" screen in just 20cm. Hassle-free installation in small space.

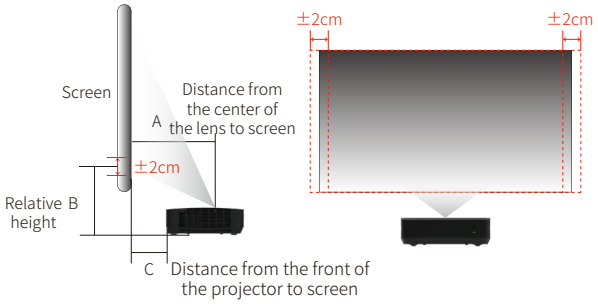




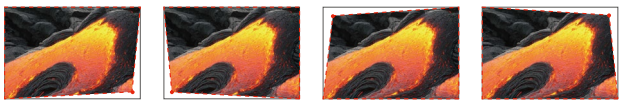
All Products Support 3D Functions

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

Offset Tolerance ±2cm



Corner Keystone



Vertical keyston: ±40°

Horizontal keystone:15°

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

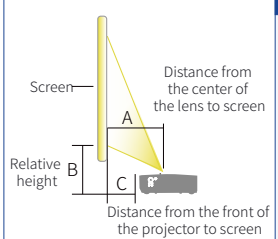
20,000h Proven Lifespan

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

APPOTRONICS PROJECTOR SPECIFICATION

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
	Stand by	< 0.5W	
Orientation		360°installation	
Noise		35dB (Standard)	
Structure	Measurements③	(L×W×H) 19.2×16.6×6"(487mm×422mm×152mm)	
	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	
	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.



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

Appotronics Corporation Ltd.

Address: 22F, High-Tech Zone Union Tower, 63,Xuefu Road, Shenzhen, China Email: info.business@appotronics.com Web: en.appotronics.com

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.