Specifications

Model		RL-600X	RL-600W	RL-600U
Display Technology		Liquid Crystal Display		
LCD panel		3x0.63"(4:3)	3x0.64"(16:10)	3x0.64"(16:10)
Brightness		6000 lm		
Resolution		XGA (1024x768) Supports highest to WUXGA	WXGA (1280x800) Supports highest to WUXGA	WUXGA (1920x1200)
Number of pixels		786,432 (1024 x 768) x3, total of 2,359,296 pixels	1,024,000 (1208 x 800) x3, total of 3,072,000 pixels	2,304,000 (1920 x 1200) x3, total of 6,912,000 pixels
Contrast		3000000:1		
Center to corner uniformity		≥ 90%		
Lens		F1.6~2.2 · f=16.09~25.75mm · Manual zoom (1.6x) · Manual focus		
Screen size		30"-300"		
Throw distance		0.71m - 12.39m	0.72 - 12.16m	0.72 - 12.16m
Throw Ratio		1.21 - 1.99	1.13 - 1.85	1.13 - 1.85
Light source (service life)		Laser diode (Normal mode: 20000h, Eco mode: 25000h)		
Lens Shift		Vertical: +45% (Manual) · Horizontal: ±10% (Manual)		
Keystone Correction		Vertical: ±40° (Auto, Manual) · Horizontal: ±15° (Manual)		
Input Terminals	PC	DVI-D ×1 · VGA (D-sub 15pin) ×1		
	Audio	Audio in: mini jack ×1 (3.5mm)		
	Video	HDMI ×1 · Video ×1 (RCA)		
	Others	USB ×2		
Output terminal		VGA (D-sub 15pin) ×1 · Audio out (Mini-jack) ×1 (3.5mm)		
Control terminal		RS232 (D-sub 9pin) ×1 · RJ-45 ×1 (Control)		
PC input signal		PC-VGA,SVGA,XGA,SXGA,WXGA,UXGA,WUXGA / Mac		
Video input signal		PAL,SECAM,NTSC (480i,480p,565p,576i,576p,720p,1080i,1080p)		
Scanning Frequency		Horizontal: 15~90kHz · Vertical: 24~85Hz		
Noise		Normal mode: 37dB · Eco mode: 29dB		
Projection method		Ceiling/floor · front/rear (Auto Image Rotation)		
Speaker		10W×1		
Weight		9.5 kg		
Dimension (WxHxD)		545×128×345mm (not incl. protruded part)		
Power supply		100~240V AC (50/60Hz)		
Power Consumption		460W max (≤ 0.5W when Standby mode set to Eco)		
Operating environment		Operating temperature: 0°C~40°C · operating humidity: 20%~80% (non-condensation)		
Standard accessory		Wireless remote control, power cord		
Function		◆ Built-in LAN for remote monitoring ◆ DICOM simulation mode ◆ Overheat automatic shutdown function ◆ Quick start and Quick off ◆ One-button black screen function		◆ Quiet 29dB (Eco mode) ◆ Compatible with PJ-Link、AMX、Crestron ◆ Password locking and anti-theft lock latch ◆ Blackboard modes for colored screen surfaces ◆ USB Memory Viewer

* These specifications and the product design are subject to change without notice.

Terminal interface

Distributed by:

Projection distance

RL-600X (4:3 aspect ratio)

Screen size (inch)	min. (wide) (meters)	max.(tele) (meters)
30"	0.72	1.19
60"	1.49	2.43
80"	2.00	3.26
100"	2.50	4.09
120"	3.01	4.92
150"	3.77	6.17
180"	4.54	7.41
200"	5.04	8.23
300"	7.59	12.39

RL-600W (16:10 aspect ratio)

Screen size (inch)	min. (wide) (meters)	max.(tele) (meters)
30"	0.71	1.17
60"	1.46	2.39
80"	1.96	3.20
100"	2.46	4.02
120"	2.96	4.83
150"	3.70	6.05
180"	4.45	7.27
200"	4.95	8.09
300"	7.45	12.16

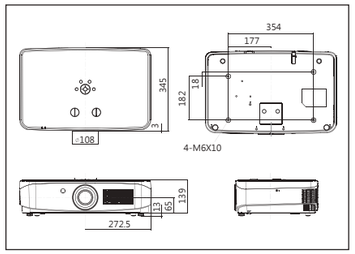
RL-600U (16:10 aspect ratio)

Screen size (inch)	min. (wide) (meters)	max.(tele) (meters)
30"	0.71	1.17
60"	1.46	2.39
80"	1.96	3.20
100"	2.46	4.02
120"	2.96	4.83
150"	3.70	6.05
180"	4.45	7.27
200"	4.95	8.09
300"	7.45	12.16

* Approximate throw distances shown adove were calculated on lens design specifications.
* Please note that up to 5% deviation may result due to lens variation.

Dimension

Unit: mm



ROLY

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ROLY
BEYOND ENVISION

LASER

Exclusive 3LCD Fully Enclosed Projectors

Effectively isolate dust,
No filter needed, Long lasting, and Low attenuation
on brightness of light source.

RL-600X
XGA | 6000 lm

RL-600W
WXGA | 6000 lm

RL-600U
WUXGA | 6000 lm

Fully-enclosed design
Internal circulating cooling system
Filter-free, no consumables without maintenance
Smart fan
360° installation

3LCD

ROLY
BEYOND ENVISION

R&D
Production Marketing

Has acquired many items of patented technology

- Technology patent of projector's three-chip laminating device
- Technology patent of enclosed cooling system
- Technology patent of ingenious laser optical path system
- Technology patent of light source & optical path system
- Technology patent of fluorescence exciting optical path system

Fully-enclosed design | Internal circulating cooling system | Filter-free, no consumables without maintenance | Smart fan | 360° installation

Real fully-Enclosed Laser Projector

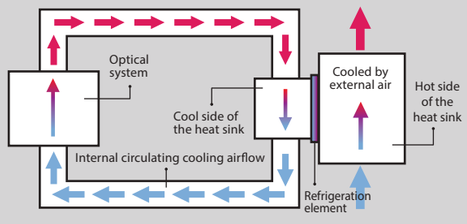
Isolating dust — First created fully enclosed structure design

Dust is a fatal killer to a projector. Over 90% of projector failure, performance deterioration, and picture brightness attenuation are attributed to the cause of dust.
ROLY laser projector has the IP6X level of enclosed light machine. The structure from the light source, light machine to the circulating cooling air channel are using fully-enclosed design, effectively isolating ingress of dust, ensuring the projector's picture quality and stability, increasing the service life and creating a real fully enclosed laser projector.

First created fully-enclosed internal circulating cooling system (ICCS)

The first patented ICCS technology uses the enclosed cooling principle – the external cooling system and the internal loop cooling system, which keeps the internal optical system having a good constant temperature environment. The enclosed structure isolates the attack from dust and ensures stable performance of the projector.

Enclosed circulation principle

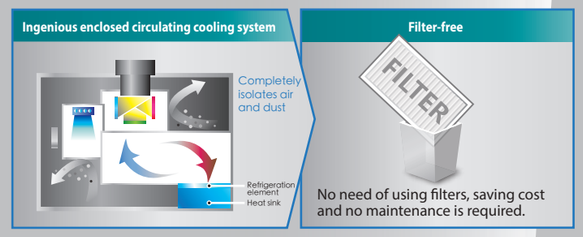


Ingenious electronic color temperature adjusting (ECTA) laser light source technology

The ECTA technology lets the projector have high-performance and simple optical elements to achieve an ultra-high luminous efficiency conversion rate. Compared to projectors with the same power consumption, it has higher brightness. It can execute color temperature adjustment to the projector via different mode selections on the projector, which increases the fineness level of the picture, showing a detailed and clear picture.

Maintenance saving — Filter-free design

Since the entire projector uses a fully-enclosed structure design, it can block dust from entering without the need of using a filter, thus prolonging the internal optical element's service life. With the ingenious fully-enclosed internal circulating cooling system (ICCS), it can achieve high cooling performance ensuring that the projector is stable, significantly reducing maintenance cost, low consumables, environment-friendly and cost saving.



No Light-Source Replacement for 20,000 hours

It uses stable and reliable laser light source, having an ultra-long service life of 20,000 hours. With energy-saving and environment-friendly characteristics, it can save more than 30% of energy compared to general projectors. It can also solve problem of lumen depreciation. After the real test of 12,000 hours, the brightness has no obvious attenuation. It presents high quality and also significantly reduces the maintenance cost.

Smart Temperature Control System

The built-in smart temperature control system can monitor the projector internal temperature in real time. It also smartly controls the fan speed to automatically adjust the projector's working temperature, maintaining the projector in a good and constant temperature environment, which increases the projector's stability and prolongs its service life.

DICOM Simulation mode

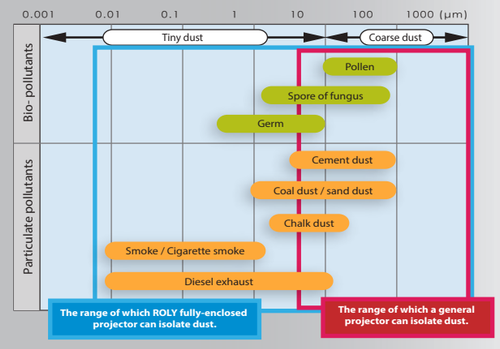
Increases significantly the display ability of gray scale, which can be used to display X-ray films and other medical images for clearly showing medical details.

General mode | DICOM simulation mode

※This projector is not a medical device.

Long-lasting — Low picture brightness attenuation

Dust will easily cause the projector to fail by short-circuiting and its long-time accumulation will attach to the light machine, that forms colorful images, and cause picture brightness rapidly to attenuate. ROLY projectors can completely isolate dust and solve the serious problem of light attenuation. Its picture is still bright and colorful even after use for a long period of time.



Dust prevention experiment

■ General open-type projectors
Experiment conditions-Dust type: Talcum powder, dust size: 8um
Dust concentration: 20~30mg/m3;
Experiment duration: 5H;
Normal environmental conversion approx. 5000

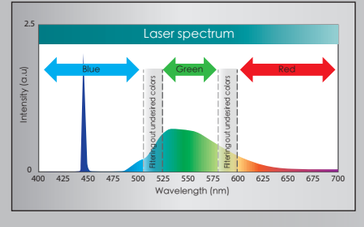
■ ROLY fully-enclosed projector experiment conditions
Experiment conditions-Dust type: Talcum powder + smoke, dust size: 50% 8um+ 50% 0.1um,
Dust concentration: 20~30mg/m3,
Experiment duration: 5H,
Normal environmental conversion approx. 5000

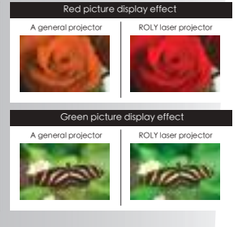
Brightness attenuation of 23%, having serious color cast.

No brightness attenuation, no color cast

Ultra-powerful color filtration function

According to the screen display effect and the requirements of color presentation, it can filter the undesired colors during the mixing process of the blue, green and red colors. It then can increase the color purity, making color more accurate and finer picture quality.

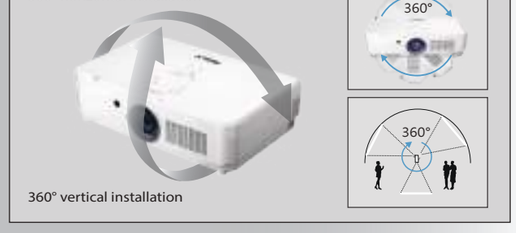




RL-600X	RL-600W	RL-600U
6000 lm XGA	6000 lm WXGA	6000 lm WUXGA

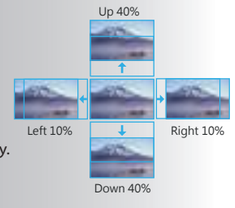
Free installation — Free and Flexible Installation without restrictions

Free 360° projector cabinet installation for flexible projection from almost any angle. It makes installation simpler and easier.



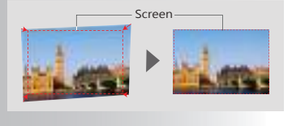
Lens Shift Function

Has the high-setting vertical and horizontal lenses' optical shift function, which will not affect its picture quality. The projector can be installed or placed more easily and flexibly.



Corner Keystone Correction

If on-site conditions require off-center projection, simply designate four screen corners and Horizontal/Vertical Corner Keystone Correction performs necessary adjustments for a distortion-free image.



Auto Image Rotation

Images are automatically rotated depending on projector orientation-upside-down on theceiling or set on a table-using a built-in angle sensor.