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ROLY RL-E6W High Brightness Multi Funcational Laser Projector User Guide

Contents

ROLY RL-E6W High Brightness Multi Funcational Laser Projector

Product Information

Specifications

- Model: RL-E6W, RL-E6U, RL-E7U
- Display Technology: Liquid Crystal Display (LCD) panel
- Brightness: 6200 lm (RL-E6W), 7100 lm (RL-E6U, RL-E7U)
- Color Brightness: 6200 lm (RL-E6W), 7100 lm (RL-E6U, RL-E7U)
- Resolution: WXGA (1280×800) (RL-E6W), WUXGA (1920×1200) (RL-E6U, RL-E7U)
- Contrast: 5000000:1 (Dynamic Mode)
- Light source: Laser diode
- Lifetime: Normal: 20000h, ECO: 30000h
- Lens: F1.6~2.25f=16.09~25.75mm, Manual zoom (1.6x), Manual focus
- Screen size: 30~300 inches
- Throw distance: RL-E6W: 0.77m~13.15m, RL-E6U: 0.71m~12.16m, RL-E7U: 1.23~4.06m
- Throw Ratio: RL-E6W: 1.23~2.02, RL-E6U: 1.14~1.86, RL-E7U: 1.23~4.06
- Input Terminals: PC, Audio, Video
- Output terminal: Others, Control terminal
- Input signal: PC-VGA, SVGA, XGA, SXGA, WXGA, WUXGA, 4K(30HZ) / Mac
- Video input signal: NTSC (720p, 1080p)
- Scanning Frequency: Horizontal: 15~90kHz, Vertical: 50~80Hz
- Projection method: Ceiling/floor front/rear (Auto Image Rotation)
- Speaker: Built-in speaker
- Noise: Normal: 38dB, ECO: 32dB
- Weight: 6.9 kg
- Dimension (WxHxD): 445mm x 306.5mm x 120mm
- Power supply: 100~240V AC (50/60Hz)
- Power Consumption: Operating/Storage Temp.
- Operating/Storage Humidity: 20%~80% (non-condensation)
- Standard accessory: Wireless remote control, power cord

Product Usage Instructions

High-Definition Image Display

The laser projector is designed to provide a high-definition image display with bright and vibrant colors. The high brightness capability of up to 7100 lm ensures clear visibility even in well-lit environments.

Efficient and Practical for Different Usage Scenarios

The laser projector is versatile and suitable for various usage scenarios, including education and economy. Its lightweight design of 7.1 kg makes it easy to transport and set up in different locations.

Long-lasting Bright Color Display

The laser projector is equipped with a laser light source that has a lifespan of up to 20,000 hours. This ensures a

stable and long-lasting bright color display, reducing the need for frequent maintenance and bulb replacements.

Energy-saving and Environmentally-friendly

The laser light source technology used in the projector is energy-efficient, consuming 30% less power compared to traditional projectors. This not only saves energy but also contributes to environmental sustainability.

FAQ

Can I use the projector for both PC and Mac devices?

Yes, the projector supports input signals from both PC (VGA, SVGA, XGA, SXGA, WXGA, WUXGA, 4K) and Mac devices.

What is the lifespan of the laser light source?

The laser light source has a lifespan of up to 20,000 hours in normal mode and up to 30,000 hours in ECO mode.

Can I adjust the projection size?

Yes, the projector allows you to adjust the projection size within the range of 30 to 300 inches.

Does the projector have built-in speakers?

Yes, the projector has a built-in speaker for audio playback.

Is the projector suitable for use in well-lit environments?

Yes, the high brightness capability of up to 7100 lm ensures clear visibility even in well-lit environments.

What are the included accessories?

The projector comes with a wireless remote control and a power cord as standard accessories.

High Brightness, Multi-funcational Laser Projector

Efficient and Pratical for Different Usage Scenarios

Specifications

Model	RL-E6W	RL-E6U	RL-E7U
Display Technology	Liquid Crystal Display		
LCD panel	3×0.59"(16:10)	3×0.64"(16:10)	
Brightness	6200 lm		7100 lm
Color Brightness	6200 lm		7100 lm
Resolution	WXGA (1280×800)	WUXGA (1920×1200)	
Number of 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	5000000:1 (Dynamic Mode)		
Light source	Laser diode		
Lifetime	Normal: 20000h, ECO: 30000h		

Lens		F1.6~2.25 f=16.09~25.75mm Manual zoom (1.6x) Manual focus	
Screen size		30~"300"	
Throw distance		0.77m~13.15m	0.71m~12.16m
Throw Ratio		1.23~2.02	1.14~1.86
Throw Ratio (Optical and) Digital		1.23~4.06	1.14~3.75
Keystone Correction		Vertical: ±40º (Auto, Manual) Horizontal: ±15º (Manual)	
Input Term inals	PC	VGA in (D-sub 15pin) ×1	
	Audio	Audio in (mini jack, 3.5mm) ×1	
	Video	HDMI ×2 Video in (RCA) ×1	
	Others	USB-Type A ×2	
Output terminal		VGA out (D-sub 15pin) ×1 Audio out (mini jack, 3.5mm) ×1	
Control terminal		RS232C (D-sub 9pin) ×1 RJ-45 ×1 (Control)	
PC input signal		PC-VGA,SVGA,XGA,SXGA,WXGA,WUXGA,4K(30HZ) / Mac	
Video input signal		NTSC (720p,1080p)	
Scanning Frequency		Horizontal: 15~90kHz Vertical: 50~80Hz	
Projection method		Ceiling/ oor front/rear (Auto Image Rotation)	
Speaker		10W×1	
Noise		Normal: 38dB, ECO: 32dB	
Weight		6.9 KG	7.1 KG
Dimension (WxHxD)		445×100×350mm(not incl. protruded part)	
Power supply		100~240V AC (50/60Hz)	
Power Consumption		380W max (< 0.3W when Standby mode set to Eco)	
Operating/Storage Te mp.		0ºC~40ºC / -10ºC~60ºC	
Operating/Storage Hu midity		20%~80% (non-condensation)	
Standard accessory		Wireless remote control, power cord	

* These specifications and the producstd' esign are subject to change without notice

Projection distance

RL-E6W (16:10 aspect ratio

Screen size	min. (wide)	max. (tele)
92"	2.44	3.99
106"	2.82	4.61
120"	3.20	5.23
150"	4.01	6.55
200"	5.36	8.75
240"	6.43	10.51
300"	8.05	13.15

RL-E6U / RL-E7U (16:10 aspect ratio)

Screen size	min. (wide)	max. (tele)
92"	2.26	3.69
106"	2.61	4.26
120"	2.96	4.83
150"	3.70	6.05
200"	4.95	8.09
240"	5.95	9.72
300"	7.45	12.16

Optional Lens (RL-E6U/RL-E7U)

T68 | Short Zoom Lens

Lens: F2.0~2.16, f=9.77~11.32mm	
Zoom/Focus: x1.2/Manual	
Throw ratio: 0.68~0.80	
Screen size: 60"~300"	

T5 | Short Fixed Lens

Lens: F1.8, f=8.3mm	
Zoom/Focus: Fixed/Manual	
Throw ratio: 0.5	
Screen size: 80"~300"	

Screen size (inch)	T68		T5
	min.(wide)	max.(tele)	Fixed
92"	1.35	1.59	0.99
106"	1.56	1.83	1.14
120"	1.77	2.08	1.29
150"	2.23	2.61	1.62
200"	2.98	3.49	2.15
240"	3.58	4.20	2.59
300"	4.49	5.25	3.23

* 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
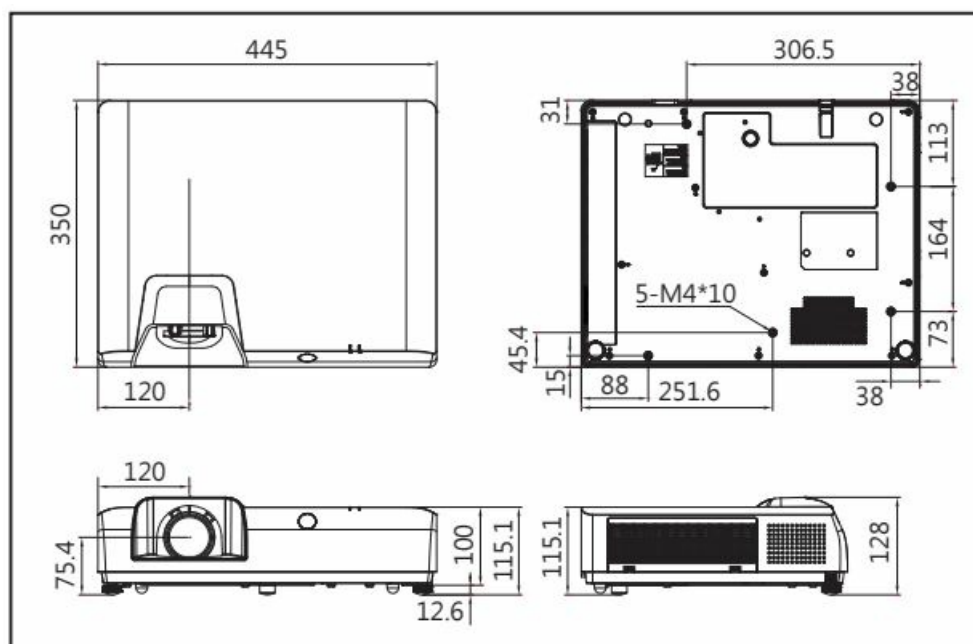
EDUCATION ECONOMY EXTRA

High-Definition Image, Stable and Long-lasting Bright Color Display

Equipped with laser light source, with a lifespan of up to 20,000 hours

Utilizing a stable and reliable low-power laser light source technology, the light source has a lifespan of up to 20,000 hours. This is more than 30% more energy-efficient than typical projectors, showcasing energy-saving and environmentally-friendly features. It also addresses the headache-inducing issue of bulb deterioration, providing high-quality image presentation while significantly reducing maintenance costs.

3LCD Display Technology

The 3LCD technology utilizes three separate liquid crystal panels, utilizing the photoelectric effect of liquid crystal molecules to control the transmittance and reflectance of the liquid crystal units through circuits, thus producing different colored images and grayscale levels. Compared to DLP, 3LCD offers more vivid, natural, and smooth dynamic image presentation, providing a more comfortable viewing experience that eliminates color fringing and delivers impressive large-scale visuals.

High Resolution WUXGA*1,High Brightness of 7100lm*2,Lightweight at only 7.1kg*3

With a high resolution of WUXGA (1920×1200) and a brightness of 7100 lumens, the RL-E series excels in professional performance whether in tiered classrooms or large well-lit conference rooms. In comparison to other projectors in its class, the RL-E series features a sleek and lightweight design, weighing only 7.1kg. This makes it suitable for various environments without impacting the decor style and provides easy installation and storage.

1. RL-E6U / E7U : WUXGA, RL-E6W : WXGA

2. RL-E7U : 7100 lm, RL-E6W / E6U : 6200 lm

3. RL-E6U / E7U : 7.1kg, RL-E6W : 6.9kg
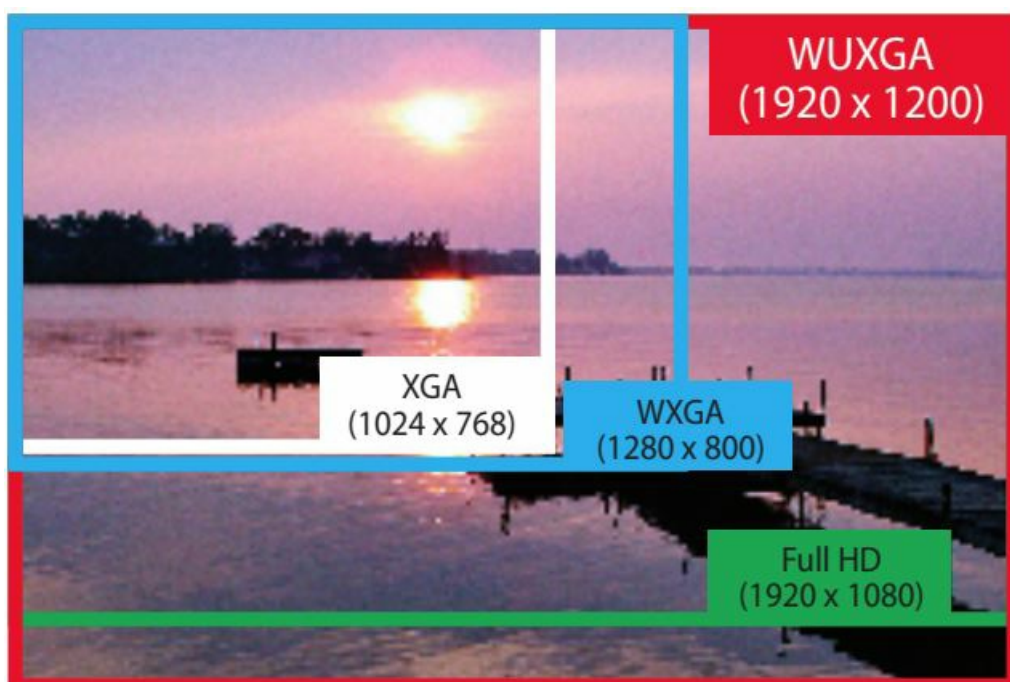
Versatile Installation, Suitable for Various Environments and Creative Projection

1.6x Optical Zoom Lens
Equipped with a 1.6x optical zoom lens, the projector effortlessly projects a 100″ screen from a distance of 2.5m to 4m, providing convenient flexibility for installation.

Digital Zoom Function
When upgrading school or business projectors, a consideration is whether the new projector fits the existing ceiling installation. With the newly introduced digital zoom function, the display can be proportionally reduced to fit your screen, reducing the need to reinstall the projector mount and saving time, money, and effort.
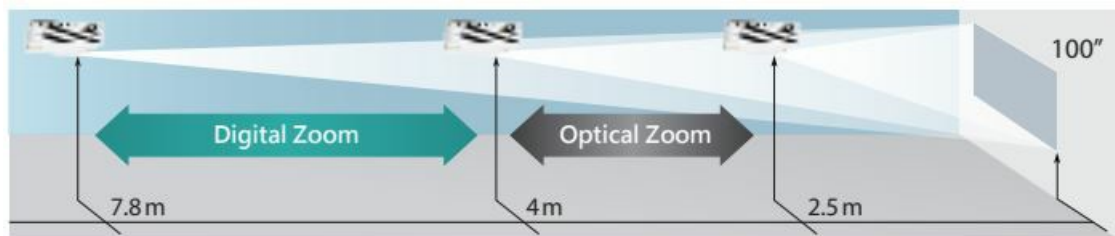

Digital Shift Function
The digital zoom is paired with a digital shift function, allowing the shrunken image to be moved vertically, horizontally, and diagonally to the desired screen position, providing greater installation flexibility.

### Optional Dual Short Throw Lens
You can opt for the 0.5 fixed short-throw lens and the 0.66-0.81 short-throw lens.
Choose the suitable short-throw lens based on environmental needs, accommodating various installation scenarios even in confined spaces.

*Shown sample is RL-E6U / E7U

120"

2.96m 1.77m 1.29 m

標配鏡頭 2.96~4.83m T68 1.77-2.08m T5 1.29m
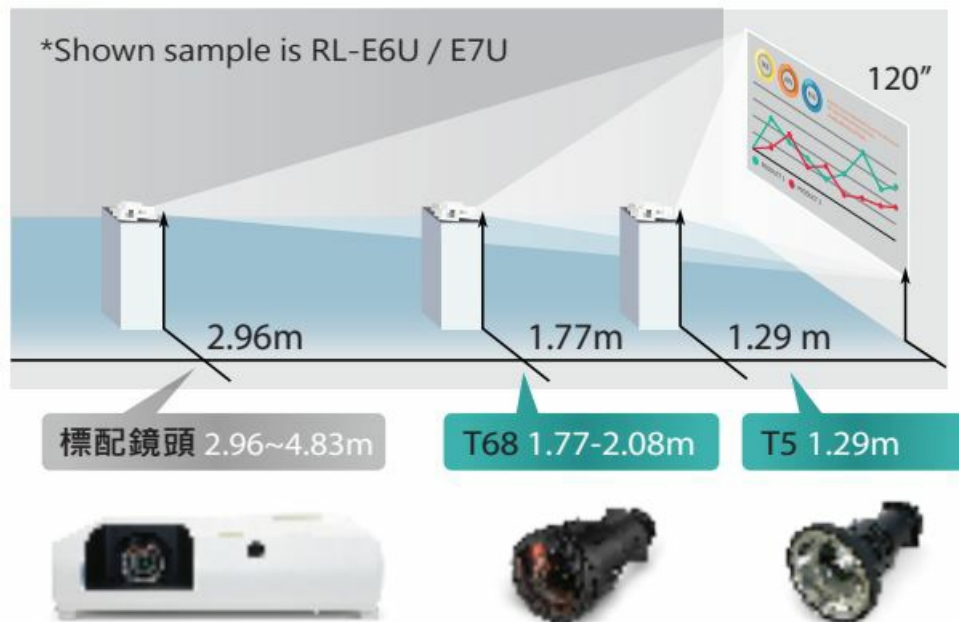
Keystone Correction Function for Curved Surfaces

This function rectifies the distorted perspective that occurs when projecting on curved surfaces due to their unique shapes, delivering natural and distortion-free visual images on curved or cylindrical surfaces.
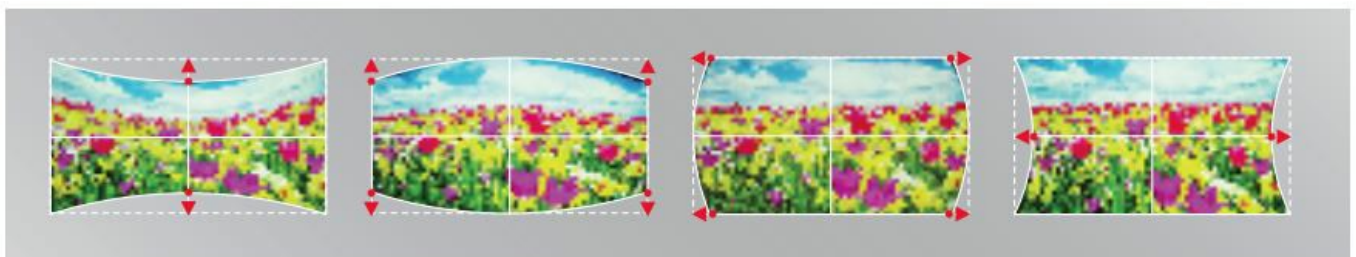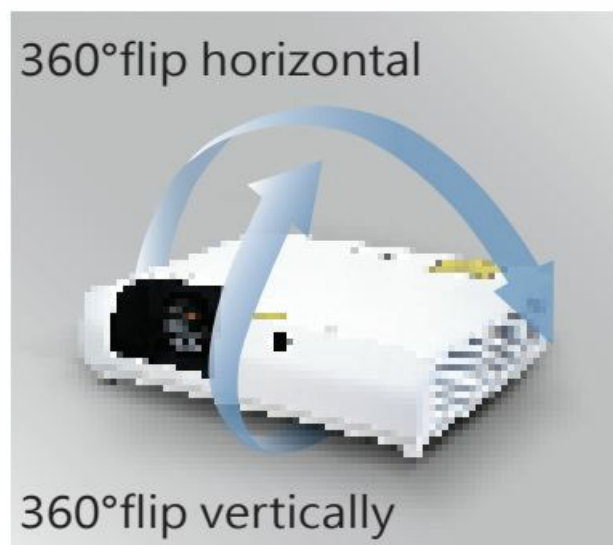

Multi-point Correction Function

In addition to the curved surface correction, you can choose between 5×5 and 9×9 corrections to adjust the image to irregular or wavy walls, allowing for more creative projection in special exhibitions or displays.
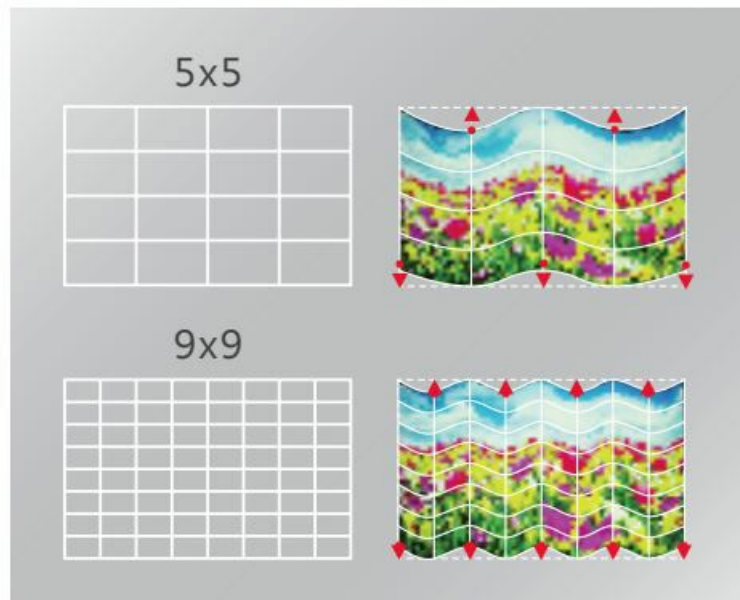
360° Free and Flexible Installation

Featuring a 360° horizontal/vertical installation design, the projector can be used at various projection angles, including front, rear, and side projection, making installation simple and easy.

Vertical, Horizontal, and Corner Keystone Correction Function

With vertical, horizontal, and corner keystone correction functions, distortion caused by projecting at angles or unusual orientations is easily rectified, ensuring the projection aligns with the screen.

Corner Keystone Correction Function
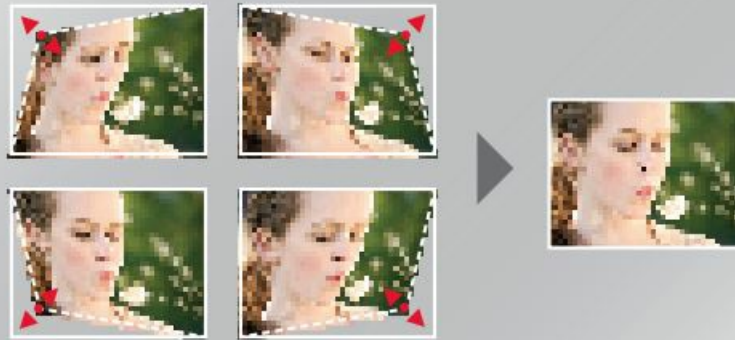
More Practical Features for Convenient and Simple Use

Custom Startup Screen
Users can use a USB flash drive to extract their preferred images or company logo and set a personalized startup screen.

Signal-triggered Startup and Power-triggered Startup
"Signal-triggered startup" means starting the projector by sending a computer signal, suitable for scenarios requiring remote control or centralized management of multiple devices, such as server rooms or remote maintenance. "Power-triggered startup" means starting the projector by supplying power. When the plug is connected to the power source, the projector will begin its startup process. Both options are available in this series, and the choice depends on the device type, application scenario, and user preferences.

Multifunctional Remote Control Included
Equipped with 1 to 9 pairing codes, the remote control can control sets of projectors individually.

No Signal Power-off Function
When there's no signal input, the projector activates the power-off function after 60 minutes (customers can choose 5, 30, 60 minutes, etc.).

Additional Features

- PC-free Projection (USB)
- Support for PJ-Link Network Control System
- Various Image Modes, including DICOM Simulation Mode
- Auto Ceiling-mount Correction
- High Altitude Mode Support
- Quick Power On/Off
- Energy Saving Mode Selection
- Instant Black Screen
- Overheat Auto Power-off Protection

Documents / Resources

 ROLY RL-E6W High Brightness Multi Funcational Laser Projector [pdf] User Guide
RL-E6W High Brightness Multi Funcational Laser Projector, RL-E6W, High Brightness Multi Funcational Laser Projector, Brightness Multi Funcational Laser Projector, Multi Funcational Laser Projector, Laser Projector, Projector

References

- 🌐 **ROLY - Beyond Envision**
- **User Manual**