

## Specifications

Model	RL-M650Q	RL-M750Q	RL-M850Q	
Display Technology	Liquid Crystal Display			
LCD panel	3×0.64" (16:10)			
Brightness	Light	6500 lm	7500 lm	8000 lm
	Color Light	6500 lm	7500 lm	8000 lm
Resolution	4K (1920x1200x2*Note)			
Contrast	5000000:1			
Lens	F1.60~2.25,f=16.09~25.75mm,Optical Zoom 1.6X,Focus Control			
Screen Size	30"~300"			
Throw Distance	0.73m~12.51m			
Throw Ratio	1.14~1.86:1			
Throw Ratio (Optical+Digital Zoom Ratio)	1.14~3.76:1			
Light source (service life)	Laser diode (Normal mode: 20000h)			
Lens shift	Vertical: 0%~50% (Manual) , Horizontal: ±10% (Manual)			
Keystone Correction	Vertical: ±40° (Electric+Manual) , Horizontal: ±15° (Manual)			
Aspect Ratio	16:9 (compatible with 4:3)			
Center to corner uniformity	90%			
Input Terminals	Video	HDMI 2.0 ×1,HDMI 2.0 ×1 (ARC / CEC Function),HDBaseT ×1		
	Others	USB-Type A ×1 (power supply 5V2A),USB-Type A ×1 (multimedia)		
Output Terminal	HDMI out ×1,S/PDIF(Square) ×1,Audio out (mini jack,3.5mm) ×1			
Control Terminal	RS232 (D-sub 9pin) ×1,RJ-45 x1 (Control) ×1,wired Remote in x1,wired Remote out x1			
PC input signal	PC-VGA,SVGA,XGA,SXGA,WXGA,UXGA,WSXGA+,WUXGA,4K@30Hz/60Hz,Mac			
Video input signal	NTSC,PAL,SECAM (480i,480p,576i,576p,720p,1080i,1080p)			
Scanning Frequency	Horizontal: 15~140kHz,Vertical: 24~85Hz			
Noise	Normal: 38dB, ECO2: 29dB	Normal: 39dB, ECO2: 33dB	Normal: 42dB, ECO2: 38dB	
Projection Method	Ceiling/floor ; front/rear			
Speaker	10W×1			
Weight	9.2 kg			
Dimension (WxHxD)	470×138.5×344mm ( Does not include protruding parts )			
Power Supply	100~240V AC (50/60Hz)			
Power Consumption	500W max.			
Standby Power Consumption	< 0.5W			
Operating Temp / Humidity	Operating Temp: 0°C~45°C / Operating Humidity: 20%~80% (non-condensation)			
Standard accessory	Multi-function remote control · power cord · quick start card			
Function	<ul style="list-style-type: none"> <li>◆ HD-BASET long distance network transmission function.</li> <li>◆ Digital Zoom function and Digital Image Shift function.</li> <li>◆ HDMI OUT for Multi-Display Solutions.</li> <li>◆ HDMI HDR Technology.</li> <li>◆ Centered Lens Design · Auto Shutdown Function without Signal.</li> <li>◆ With Overheat automatic Shutdown Function · high altitude mode.</li> <li>◆ Support vertical and horizontal keystone correction ,corner correction function.</li> <li>◆ Multi-Point and Curved Surface Correction · 360° Installation.</li> <li>◆ HDMI ARC Two-Way Audio · HDMI CEC Synchronized Control Function.</li> <li>◆ Standard remote supports multi-projector control with 1-9 pairing codes.</li> <li>◆ Compatible with PJ-Link · image Freeze · One-button black screen function.</li> <li>◆ PC-Free Projection (USB) · Custom Startup Screen.</li> </ul>			

※These specifications and the product's design are subject to change without notice. ※The light out service time varies depending on environment and usage, so the data listed are experimental maximum values for reference only.  
\* Note: ROLY's optical imaging technology achieves twice the resolution of 1080P through pixel shifting and a new advanced image processing chip.



Distributed by:

## Projection distance

Screen unit: inches  
Distance unit: meters

Screen size (16:9)	min. (wide)	max. (tele)
92"	2.32	3.79
106"	2.68	4.38
120"	3.04	4.97
150"	3.81	6.22
200"	5.09	8.32
240"	6.10	9.98
300"	7.66	12.51

## Optional short-throw lens

### T68 | Short-Throw 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"	

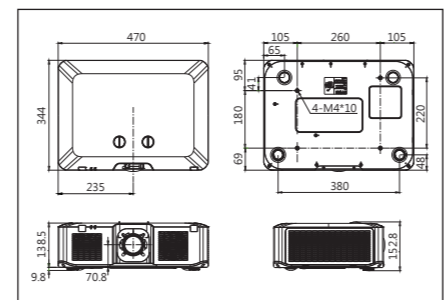
### T5 | Short-Throw Lens

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"	1.82	2.14	1.33
150"	2.29	2.68	1.66
200"	3.07	3.59	2.21
240"	3.58	4.20	2.59
300"	4.62	5.40	3.32

\* Please note that up to 5% deviation may result due to lens variation.

## Dimension



**ROLY**  
BEYOND ENVISION

TAIWAN ROLY TECHNOLOGY CO., LTD  
3F-13, No.14, Lane 609, Section 5, Chongxin Rd.,  
Sanchong Dist., New Taipei City, Taiwan, R.O.C.

www.rolly-taiwan.com

**ROLY**  
BEYOND ENVISION

Laser projectors **LASER**

4K and 8000lm High Brightness and Vivid Colors

**8000lm | 4K High Brightness Color**  
**A Premium Cinematic Visual Experience**

ULTRA HD  
**4K**



**Series M-4K**

4K



RL-M650Q 6500 lm

RL-M750Q 7500 lm

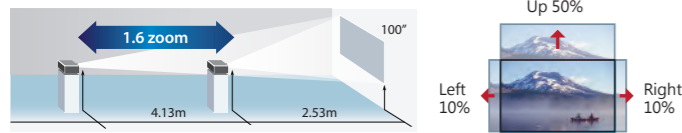
RL-M850Q 8000 lm



**High installation flexibility, suitable for various installation environments**

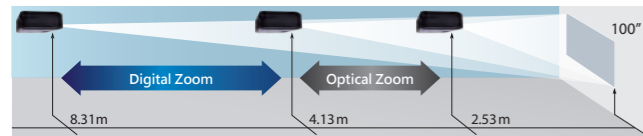
**1.6x Optical Zoom Lens and Lens Shift Function**

Equipped with a 1.6x optical zoom lens, the projector effortlessly projects a 100" screen from a distance of 2.53m to 4.13m, 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.



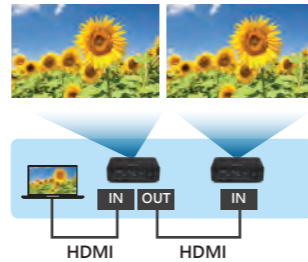
**Optional Dual Short Throw Lens**

You can opt for the 0.5 fixed short-throw lens and the 0.68-0.80 short-throw lens. Choose the suitable short-throw lens based on environmental needs, accommodating various installation scenarios even in confined spaces.



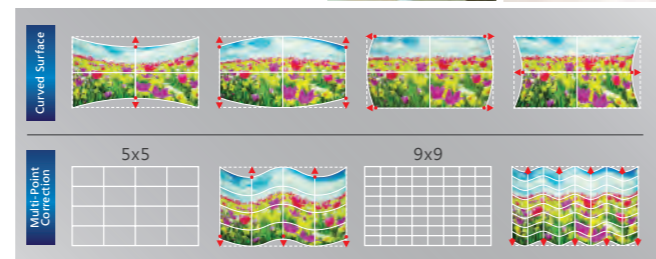
**HDMI OUT terminal engineering-level multi-screen solution**

Equipped with HDMI output terminal, it can accurately transmit the image of the projector to multiple display devices, achieve seamless synchronization, and meet the multi-screen display needs of the project. Whether it is panoramic presentation, remote monitoring, technical testing and calibration, or multi-screen splicing, this function can greatly improve the flexibility and efficiency of engineering applications.



**Curved Surface and Multi-Point Correction Function**

In addition to the curved surface correction, you can choose between 5x5 and 9x9 corrections to adjust the image to irregular or wavy walls, allowing for more creative projection in special exhibitions or displays.



**Standard HDBaseT long-distance transmission**

Standard HDBaseT terminal, using the universal RJ45 connector, connected to CAT 5e/6 network cable, can support 4K, uncompressed Full HD digital video, audio and other signals, and achieve long-distance transmission of high-definition digital signals.

**Center Lens Design**

The lens adopts symmetrical central design, regardless of front projection Rear projection makes installation and setup easier and reduces mistakes.



**More Practical Features for Convenient and Simple Use**

**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.



**Additional Features**

- PC-free Projection (USB)
- Support for PJ-Link Network Control System
- Various Image Modes, including DICOM Simulation Mode
- Auto Ceiling-mount Correction
- Support vertical and horizontal keystone correction
- corner correction function
- Instant Black Screen
- High Altitude Mode Support
- 360° Installation
- Overheat Auto Power-off Protection
- Built-in calibration test patterns
- Custom Startup Screen
- No-signal auto shutdown function



- 4K**
- RL-M650Q  
6500 lm
- RL-M750Q  
7500 lm
- RL-M850Q  
8000 lm

**High-quality images with pure colors and rich detail**

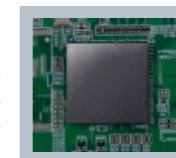
**Equipped with laser light source, with a lifespan of up to 20,000 hours**

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.



**New Image Processing Chip**

Equipped with a brand-new image processing chip that fully decodes all signal resolutions, including 4K sources, effectively optimizing color performance and delivering a perfect balance of brightness, color, and resolution.



**HDMI HDR technology**

Enhanced brightness and shadow detail deliver brighter highlights and more refined dark areas. With support for a wider color gamut, colors are pure and accurate, improving overall image quality. The result is richer image depth and a more realistic, immersive, and visually stunning viewing experience.

**HDMI CEC synchronized control and ARC two-way audio function**

The HDMI CEC synchronized control function allows multiple CEC-compatible devices to be controlled with a single remote. When the projector is powered on or off, connected devices are also powered on or off simultaneously, simplifying multi-device operation, reducing the number of remotes needed, and enhancing user convenience. The HDMI ARC two-way audio function enables bidirectional audio transmission through a single HDMI cable, further improving connection convenience between devices.

**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.

**High Resolution 4K\*, High Brightness of 8000lm\*, Lightweight at only 9.2kg**

With a high resolution of 4K (3840 x 2160) and a brightness of 8000 lumens, the RL-M series excels in professional performance whether in tiered classrooms or large well-lit conference rooms. In comparison to other projectors in its class, the C600 series features a sleek and lightweight design, weighing only 9.2kg. This makes it suitable for various environments without impacting the decor style and provides easy installation and storage.

\* 4K(1920x1200x2) • \* RL-M650Q : 6500 lm, RL-M750Q : 7500 lm, RL-M850Q : 8000 lm •

