Specifications

Model		RL-M65Q	RL-M75Q	RL-M85Q
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		◆ HD-BASET long distance network transmission function. ◆ Digital Zoom function and Digital Image Shift function. ◆ HDMI OUT for Multi-Display Solutions. ◆ HDMI HDR Technolology. ◆ Centered Lens Design、Auto Shutdown Function without Signal. ◆ With Overheat automatic Shutdown Function、high altitude mode.	◆ Support vertical and horizontal keystone correction ,corner correction function. ◆ Multi-Point and Curved Surface Correction、360° Installation. ◆ HDMI ARC Two-Way Audio、HDMI CEC Synchronized Control Function. ◆ Standard remote supports multi-projector control with 1-9 pairing codes. ◆ Compatible with PJ-Link、image Freeze、One-button black screen function. ◆ PC-Free Projection (USB)、Custom Startup Screen.	

※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"	

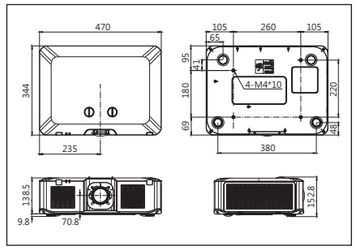
T5 | Short-Throw Lens	
Lens: F1.8, f=8.3mm	
Zoom/Focus: Fixed/Manual	
Throw Ratio: 0.5	
Screen Size: 80"~300"	

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

Unit: mm



ROLY
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ROLY
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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-**M65Q**	6500 lm
RL-**M75Q**	7500 lm
RL-**M85Q**	8000 lm

3LCD

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8000lm | 4K High Brightness Color
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Laser projectors LASER



4K

RL-M65Q
6500 lm

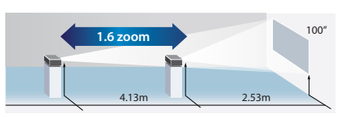
RL-M75Q
7500 lm

RL-M85Q
8000 lm

High installation flexibility, suitable for various installation environments

1.6x Optical Zoom Lens and Lens Shift Function

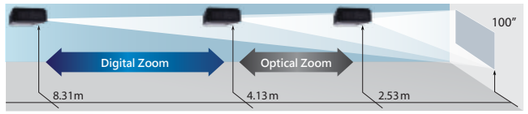
Equipped with a 1.6x optical zoom lens, the projector effortlessly projects a 100" screen from a distance of 2.53m to 4.13m, providing convenient flexibility for installation.





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.



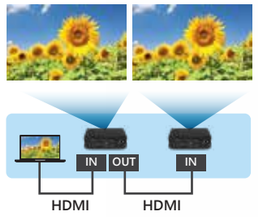
Optional Dual Short Throw Lens

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 endineering-level multi-screen solution

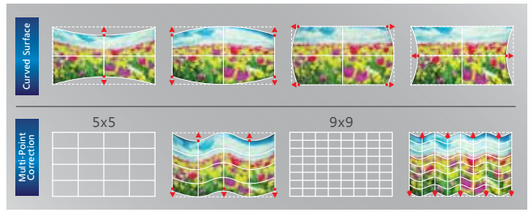
Equipped with HDMI output terminal, it can accurately transmit the image of the projector to multiple display devices, achieve seamless synchronization, and meet the multi-screen display needs of the project. Whether it is panoramic presentation, remote monitoring, technical testing and calibration, 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.

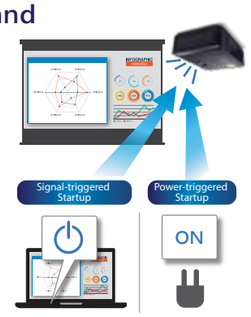


More Practical Features for Convenient and Simple Use



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

High-quality images with pure colors and rich detail

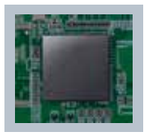
Equipped with laser light source, with a lifespan of up to 20,000 hours

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-M65Q : 6500 lm, RL-M75Q : 7500 lm, RL-M85Q : 8000 lm •

