

## Specifications

Model	RL-M65U	RL-M75U	RL-M85U
Display Technology	Liquid Crystal Display		
LCD panel	3x0.64"(16:10)		
Brightness	6500 lm	7500 lm	8500 lm
Color Brightness	6500 lm	7500 lm	8500 lm
Resolution	WUXGA (1920x1200)		
Number of pixels	2,304,000 (1920 x 1200) x3, total of 6,912,000 pixels		
Contrast	5000000:1 (Dynamic Mode)		
Light source (Lifetime)	Laser diode (Normal: 20000h, ECO: 30000h)		
Lens	F1.60~2.25 · f=16.09~25.75mm · Manual zoom (1.6x) · Manual focus		
Screen size	30"~300"		
Throw distance	0.71m~12.16m		
Throw Ratio	1.10~1.88:1		
Throw Ratio (Optical and Digital)	1.10~3.77:1		
Lens Shift	Vertical: 0%~50% (Manual) · Horizontal: ±10% (Manual)		
Keystone Correction	Vertical: ±40° (Auto, Manual) · Horizontal: ±15° (Manual)		
Input Terminals	PC	VGA in (D-sub 15pin) x1	
	Audio	Audio in (mini jack, 3.5mm) x1	
	Video	HDMI x2 · HDBaseT x1	
	Others	USB-Type A x2 (power supply 5V2A) · USB-Type A x1 (multimedia)	
Output terminal	VGA out (D-sub 15pin) x1 · Audio out (mini jack, 3.5mm) x1 · HDMI out x1		
Control terminal	RS232 (D-sub 9pin) x1 · RJ-45 x1 (Control) · wired Remote in x1 · wired Remote out x1		
PC input signal	PC-VGA, SVGA, XGA, SXGA, WXGA, UXGA, WSXGA+, WUXGA, 4K(30HZ) / Mac		
Video input signal	NTSC, PAL, SECAM (480i, 480p, 576i, 576p, 720p, 1080i, 1080p)		
Scanning Frequency	Horizontal: 15~90kHz · Vertical: 50~85Hz		
Projection method	Ceiling/floor · front/rear (Auto Image Rotation)		
Speaker	10Wx1		
Noise	Normal: 38dB, ECO: 39dB	Normal: 39dB, ECO: 33dB	Normal: 42dB, ECO: 38dB
Weight	9.2 KG		
Dimension (WxHxD)	470x138.5x344mm (not incl. protruded part)		
Power supply	100~240V AC (50/60Hz)		
Power Consumption	356W (100~120V) 352W (200~240V)	431W (100~120V) 423W (200~240V)	500W (100~120V) 487W (200~240V)
Standby power consumption	< 0.5W (ECO)		
Operating/Storage Temp.	0°C~45°C / -10°C~60°C		
Operating/Storage Humidity	20%~80% (non-condensation)		
Standard accessory	Wireless remote control, power cord		
Function	<ul style="list-style-type: none"> <li>◆ USB direct reading of pictures and videos</li> <li>◆ Multiple image modes, support DICOM analog mode</li> <li>◆ Vertical and horizontal keystone correction, four-corner correction function</li> <li>◆ horizontal and vertical 360° rotation installation</li> <li>◆ Equipped with Kensington security lock anti-theft protection</li> <li>◆ Built-in multiple patterns for calibrating the display effect of the projector</li> </ul>		

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

\* The light output lifetime varies depending on environment and usage, so the data listed are experimental maximum values for reference only.



**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

M114MAR21

## Projection distance

16:10 aspect ratio

Unit: m

Screen Size	min. (wide)	max. (tele)
100"	2.46	4.02
120"	2.96	4.83
150"	3.70	6.05
180"	4.44	7.27
200"	4.95	8.09
240"	5.95	9.72
300"	7.45	12.16

## Optional Lens

### T5 | Short Fixed Lens

Lens: F1.8, f=8.3mm

Zoom/Focus: Fixed/Manual

Throw ratio: 0.5:1

Screen size: 80"~300"



### T68 | Short Zoom Lens

Lens: F2.0~2.16, f=9.77~11.32mm

Zoom/Focus: 1.2X / Manual

Throw ratio: 0.68~0.80:1

Screen size: 60"~300"



### T31 | Long Zoom Lens

Lens: F1.7~2.3, f=56.4~101.66mm

Zoom/Focus: 1.2X / Manual

Throw ratio: 4.02~7.28:1

Screen size: 50"~600"



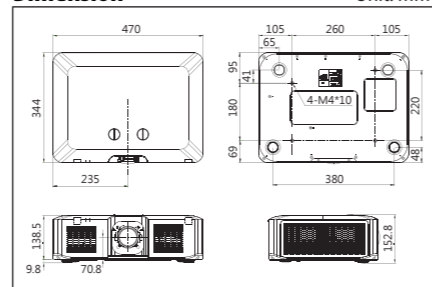
Screen size (inch)	T31		T68		T5
	min.	max.	min.	max.	Fixed
100"	4.02	7.2	1.56	1.83	1.14
150"	6.03	10.8	2.23	2.61	1.62
200"	8.04	14.4	2.98	3.49	2.15
300"	12.06	21.60	4.49	5.26	3.23

\* Approximate throw distances shown above were calculated on lens design specifications.

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

## Dimension

Unit: mm



**ROLY**  
BEYOND ENVISION

**LASER**

The Lightest and Smallest  
High-brightness Laser Projector



**M series**

**WUXGA**



RL-M65U 6500 lm

RL-M75U 7500 lm

RL-M85U 8500 lm





## Vibrant Colors for Education & Exhibitions



<b>WUXGA</b>	<b>RL-M85U</b> 8500 lm	<b>RL-M75U</b> 7500 lm	<b>RL-M65U</b> 6500 lm
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### High-Definition Image, Stable and Long-lasting Bright Color Display

#### Long-lasting Laser Light Source

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 30% more energy-efficient than lamp 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.

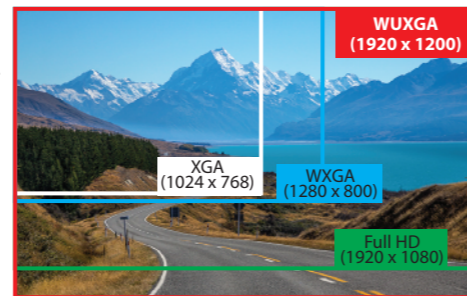


#### 3LCD Display Technology

Latest developed 3-chip LCD panels work together to generate natural color optical system. For 3LCD technology, the color brightness equals to white brightness. There is no rainbow effect, and higher color restoration capability, which will produce more real and nature color.

#### High Resolution WUXGA, High Brightness of 8500lm\*, Lightweight at only 9kg

With a high resolution of WUXGA (1920x1200) and a brightness of 8500 lumens, the 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 M-series features a sleek and lightweight design, weighing only 9kg. This makes it suitable for various environments without impacting the decor style and provides easy installation and storage.

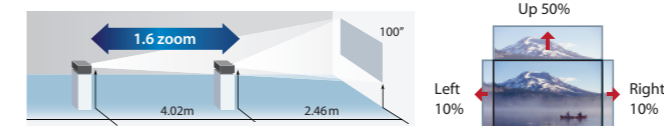


\* RL-M65U : 6500 lm,  
RL-M75U : 7500 lm,  
RL-M85U : 8500 lm.

### Versatile Installation, Suitable for Various Environments and Creative Projection

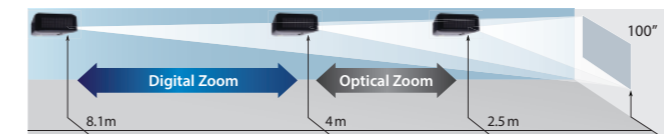
#### 1.6x Optical Zoom Lens & Lens Shift

Equipped with 1.6x optical zoom standard lens for great performance. It can easily project 100 inch big screen within the distance of 2.46 - 4.02m. Featured both vertical/horizontal lens shift (vertical: +50%; horizontal: ±10%). Zoom and focus can be operated by remote control, so the adjustment can be carried out from a distance.



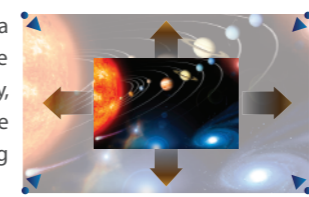
#### Digital Zoom Function

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.



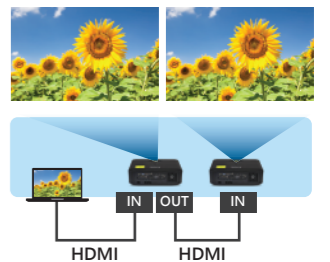
#### Digital Shift Function

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.



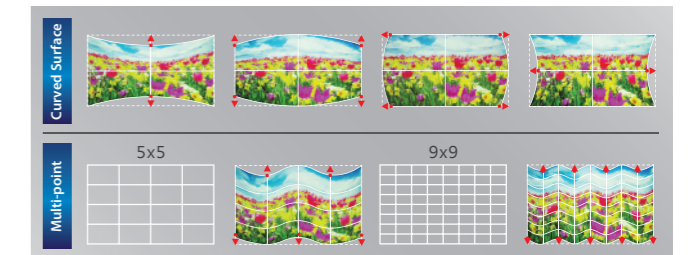
#### HDMI OUT terminal engineering-level multi-screen solution

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.



#### Multi-point & Curved Surface Correction Function

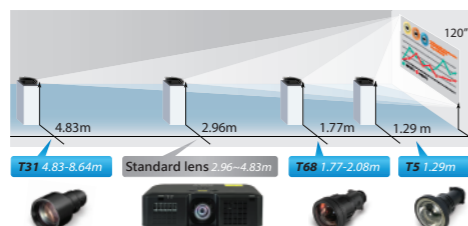
In addition to the curved surface correction, you can choose between 5x5 and 9x9 corrections to adjust the image to irregular or wavy walls, allowing for more creative projection in special exhibitions or displays.



### More Practical Features for Convenient and Simple Use

#### Interchangeable lenses (Optional)

ROLY of the M-series offers variety of optional projection lens in focal lengths ranging from short to long. The extensive line of optional lens can match different applications and needs.



#### Multifunctional Remote Control

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



#### Optional lenses

<b>Short Fixed Lens</b> <b>T5</b> f=8.3mm F1.8 0.5:1	<b>Short Zoom Lens</b> <b>T68</b> f=9.77~11.32mm F2.0~2.16 0.68~0.80	<b>Standard lens</b> <b>Supplied lens</b> f=16.09~25.75mm 1.10~1.88	<b>Long Zoom Lens</b> <b>T31</b> f=56.4~101.66mm F1.7~2.3 4.02~7.28
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Diagonal image size	Projection distance							
	T5		T68		Standard Lens		T31	
Throw ratio (16:10 aspect ratio)	0.5:1	0.68~0.80:1		1.10~1.88:1		4.02~7.28:1		
		min.	max.	min.	max.	min.	max.H	
80"	0.86 m	1.17 m	1.37 m	1.95 m	3.20 m	3.22 m	3.76 m	
100"	1.08 m	1.47 m	1.72 m	2.46 m	4.02 m	4.02 m	7.20 m	
150"	1.62 m	2.23 m	2.61 m	3.70 m	6.05 m	6.03 m	10.80 m	
180"	1.94 m	2.68 m	3.13 m	4.44 m	7.27 m	7.24 m	12.96 m	
200"	2.15 m	2.98 m	3.49 m	4.95 m	8.09 m	8.04 m	14.40 m	
240"	2.59 m	3.58 m	4.20 m	5.95 m	9.72 m	9.65 m	17.28 m	
300"	3.23 m	4.49 m	5.26 m	7.45 m	12.16 m	12.06 m	21.60 m	

#### Lens Center Layout

A symmetry design makes the chassis simple and elegant, also bring the installation setup easier and reduces mistakes, regardless of front projection rear projection.

