**RICOH High End Laser Projectors** 



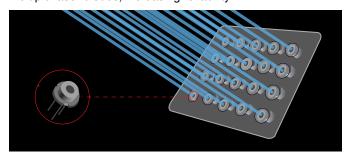
# RJ WUL6670 RJ WUL6680 RJ WUL6690





#### Multi-Laser Module Structure

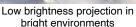
The multi-module structure laser light source supports continuous 24/7 operation. The laser beam is produced by multiple laser diodes, increasing reliability.



## High Brightness

The RICOH PJ WUL6670, PJ WUL6680 and PJ WUL6690 models continuously and stably deliver brightness levels of 7,200lm, 8,500lm, and 9,600lm respectively. Clear, sharp images can be obtained even in bright environments, making these projectors suitable for applications in various fields such as large auditoriums, conference rooms, hotels, and large-scale exhibitions, among others.





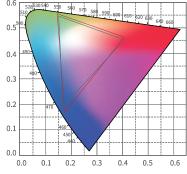


High brightness projection in bright environments

## High Image Quality and Wide Colour Gamut

Using a WUXGA chip to project widescreen, high-definition images, these DLP projectors combine RICOH's unique NCE natural colour gain technology, RGB advanced adjustment and GAMMA type selection to efficiently cover over 97% of the Rec.709 colour gamut range, delivering natural and realistic colours.





## 20,000-Hour Long Life

The laser light source has a long life of 20,000 hours, which is 6-7 times the life of a typical projector bulb source.

## 4K Signal Compatible Display

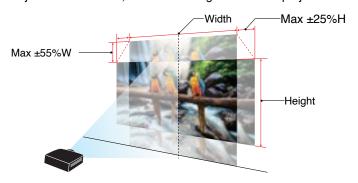
3840 x 2160HZ compatible, which means this device can directly play 4K resolution format audio and video content.

#### Multiple Remote Image Correction Functions

Supports  $\pm$  30° horizontal and vertical keystone, four corners and grid image correction functions. The remote control enables easy geometric correction for projection onto surfaces such as spheres and curved screens.

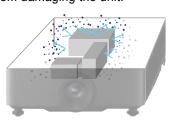
#### Remote, Electric Focus / Zoom / Lens shift

The wide ±25% horizontal and ±55% vertical image adjustment ranges of the electric lens shift, greatly increase freedom of installation position. This family of projectors supports remotely controlled motorised focus, high magnification zoom and image adjustment functions, without needing to move the projector.



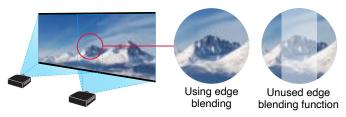
#### IP5X Dust-proof Design

Dust is a key factor affecting the lifespan of a projector. The key optical components of the PJ WUL6670, PJ WUL6680 and PJ WUL6690 models use a specially designed, sealed optical structure, achieving an IP5X dust-proofing level to prevent dust from damaging the unit.



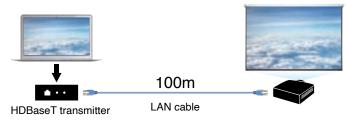
## Edge Blending Function

Avoid additional edge-blending software costs thanks to the builtin edge-blending function. Multiple large images can be combined to produce a single, seamless, extremely large image. Excess brightness in overlapping parts can be eliminated by adjustment of the fusion band.



#### HDBaseT

HDBaseT technology is a multi signal transmission system that uses a single fiber optic cable. High-definition video and document data can be transmitted uncompressed through LAN cable, with a maximum transmission distance of up to 100M by using HDBaseT technology.



## 360-Degree Installation and Portrait **Orientation Support**

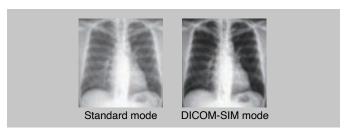
These models can be installed to project through 360 degrees, making them highly flexible, reducing installation limitations and greatly expanding the application range to include scenarios such as projection onto ceilings and floors, along with portrait orientation.





## Supports DICOM SIM medical mode

Equipped with DICOM SIM (Digital Imaging and Communications in Medicine Simulation), these models are suitable for projecting monochromatic medical images, such as X-ray films, MRI, and tomography images. Details of medical images can be presented to a wider audience in a large, high-definition format, ideal for medical education environments.

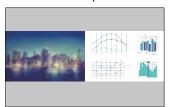


#### Picture in Picture and Picture By Picture

It is possible for a single projector to simultaneously project the content of two input sources on one screen, enabling the projection of multiple images, whether in PIP or PBP format.



Picture in picture



Picture by picture

#### Customisable ID Remote Control

Up to 99 projectors can be assigned a separate ID and individually controlled, one at a time.

## Network Management, Remote Projector **Monitoring Support**

These projectors support various network protocols such as "Extron", "PJ Link", "AMX", "Telnet", and "Webserver" via an inbuilt application. This manages the status and operation of multiple network projectors such as power ON/OFF, and input source switching.

#### Interfaces

1. Screen Trigger terminal

2. Remote IN terminal

3. HDBaseT terminal

4. LAN terminal 5. HDMI2 terminal

6. HDMI 1 IN terminal

7. HDMI OUT terminal 8. Computer IN terminal 9. 3D Sync IN terminal

10. 3D Sync OUTt terminal

11. DC 5V/1.5A terminal

12. Audio IN terminal

13. Audio OUT terminal

14. PC Control terminal

15. AC IN socket

16. Anti-theft lock hole (Kensington™ lock)



## Mercury-free

The solid-state semiconductor laser light source used in these models contains no harmful mercury elements - unlike many bulb projectors, which use high voltage mercury lamps.

# Specifications

		D I W/I II 0070	DIMIII 6600	DIWIII CCCC	
Model name		PJ WUL6670	PJ WUL6680	PJ WUL6690	
Projection sys	tem	DLP	DLP	DLP	
Chip size		0.67inch	0.67inch	0.67inch	
Brightness		7,200lm	8,500lm	9,600lm	
Contrast ratio		3,380,000:1	3,380,000:1	3,380,000:1	
Aspect ratio		16:10	16:10	16:10	
ight source		Laser	Laser	Laser	
ight source lif	fe time	20,000h(*)	20,000h(*)	20,000h(*) 30-300inch	
Projection size	9	40-300inch	30-300inch	30-300inch	
Projection distance		Wide: 1.03-7.95m Tele: 1.30-9.96m	Wide: 0.78-8.22m Tele: 1.26-13.06m	Wide: 0.78-8.22m Tele: 1.26-13.06m	
hrow ratio		1.22~1.53	1.25~2.0	Tele: 1.26-13.06m 1.25~2.0 1,920 x 1,200 (WUXGA) 1,073,000,000 Motorized 1.6x (Motorized) Horizontal ±25%/ Vertical ±55% +/-30°Vertical Support	
Resolution		1,920 x 1,200 (WUXGA)	1,920 x 1,200 (WUXGA)	1,920 x 1,200 (WUXGA) 1,073,000,000	
Color reproduc	ction	1,073,000,000	1,073,000,000	, , , , , , , , , , , , , , , , , , , ,	
oucus		Motorized	Motorized	, , ,	
ouous oom ratio		1.25x (Motorized)	1.6x (Motorized)		
ens shift		Horizontal ±25%/ Vertical ±55%	Horizontal ±25%/ Vertical ±55%	` '	
(eystone		+/-30°Vertical	+/-30°Horizontal +/-30°Vertical	+/-30°Horizontal	
our corners o	correction	Support	Support		
arid adjustme		Support	Support	Support	
Curved correction		Support	Support	Support	
Oust-proof		IP5X	IP5X	IP5X	
	Computer In	MiniD-SUB15pin x1	Mini D-SUB15pin x1	Mini D-SUB15pin x1	
	HDMI1	HDMI(2.0) x1	HDMI(2.0) x1	HDMI(2.0) x1	
	HDMI2	HDMI(1.4) x1	HDMI(1.4) x1	HDMI(1.4) x1	
Inp		HDBaseT	HDBaseT	HDBaseT	
p	3D Sync In	BNC x1	BNC x1	BNC x1	
	Audio In	3.5mm mini jack x1	3.5mm mini jack x1	3.5mm mini jack x1	
	Wired IR	•	•		
nterfaces		3.5mm mini jack (Blue) x1	3.5mm mini jack (Blue) x1	3.5mm mini jack (Blue) x1	
	HDMI Out	HDMI(2.0) x1	HDMI(2.0) x1	HDMI(2.0) x1	
	3D Sync Out	BNC x1	BNC x1	BNC x1	
Ou	t put USB typeA	5V/1.5A x1	5V/1.5A x1	5V/1.5A x1	
	Audio Out	3.5mm mini jack x1	3.5mm mini jack x1	3.5mm mini jack x1	
<u> </u>	12V Power Trigger	Phone jack x1	Phone jack x1	Phone jack x1	
Co	ntrol Computer Control (RS232C)	D-SUB9pin x1	D-SUB9pin x1	D-SUB9pin x1	
	Wired LAN	RJ45 x1	RJ45 x1	RJ45 x1	
loise (standaı		30dB/25dB	34dB/27dB	36dB/27dB	
Dimension (W	xDxH mm) -(without feet)	486 x 376 x 150mm	486 x 376 x150mm	486 x 376 x 150mm	
Veight		About 12kg	About 13.5kg	About 13.5kg	
Environment c	condition	Temperature: 0°C~40°C Humidity: 10%~85%	Temperature: 0°C~40°C Humidity: 10%~85%	Temperature: 0°C~40°C Humidity: 10%~85%	
Power supply	voltage	100-240V 50/60HZ	100-240V 50/60HZ 100-240V 50/60HZ		
Maximum pow	ver consumption(standard/Eco)	470W/235W	620W/310W	620W/310W	
Stand by power consumption		<0.5W	<0.5W	<0.5W	
High altitude mode		Support	Support	Support	
peaker		10W x2	10W x2	10W x2	
•	ntil the initial brightness reduces to 50%.			•	

<sup>(\*)</sup>Running time until the initial brightness reduces to 50%. (Life time varies depending on usage conditions and environment.)

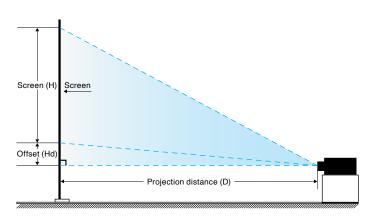
Projection distance

PJ WUL6670 Projection distance									
Screen	Distance (D/m)		Offset (Hd/m)						
size (inch)	Wide	Tele	Min	Max					
40	1.03	1.30	-0.57	0.03					
80	2.10	2.63	-1.13	0.05					
100	2.63	3.30	-1.42	0.07					
110	2.89	3.63	-1.56	0.07					
180	4.76	5.96	-2.54	0.12					
200	5.29	6.63	-2.82	0.13					

300

7.95

PJ WUL6680/WUL6690 Projection distance								
Screen	Distance (D/m)		Offset (Hd/m)					
size (inch)	Wide	Tele	Min	Max				
30	0.78	1.26	-0.42	0.02				
80	2.15	3.44	-1.13	0.05				
100	2.71	4.32	-1.41	0.07				
110	2.98	4.75	-1.56	0.07				
180	4.91	7.81	-2.54	0.12				
200	5.46	8.69	-2.83	0.13				
300	8.22	13.06	-4.24	0.20				



- \* The above appearances and specifications are subject to change without notice.

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  This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)
- \* This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)
- \* This product includes software written by Tim Hudson (tjh@cryptsoft.com)

