RICOH High End Laser Projectors



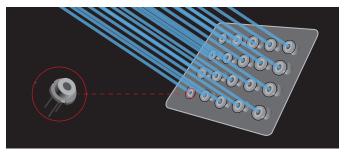
RJ WUL6670 RJ WUL6680 RJ WUL6690





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.





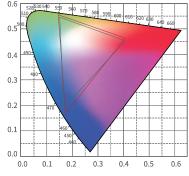


High brightness projection in bright environments

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

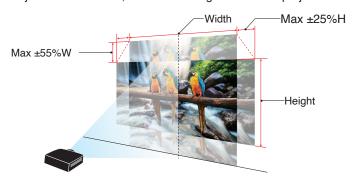
3840 x 2160HZ compatible, which means this device can directly play 4K resolution format audio and video content.

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.



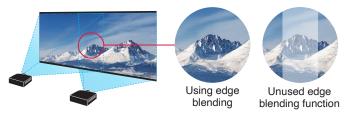
■ IP5X Dust-proof Design

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.



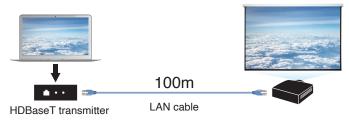
Edge Blending Function

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

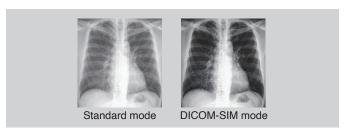
These models can be installed to project through 360 degrees, making them highly flexible, reducing installation limitations and greatly expanding the application range to include scenarios such as projection onto ceilings and floors, along with portrait orientation.





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.

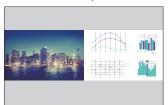


Picture in Picture and Picture By Picture

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

Screen Trigger terminal

2. Remote IN terminal

HDBaseT terminal
 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

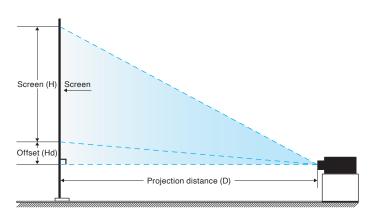
Model nam	ne		PJ WUL6670	PJ WUL6680	PJ WUI 6690	
Projection	system		DLP	DLP	DLP	
Chip size			0.67inch	0.67inch		
Brightness			7,200lm	8,500lm	9,600lm	
Contrast ratio			3,380,000:1	3,380,000:1	· '	
Aspect rati			16:10	16:10	16:10	
ight sourc			Laser	Laser	Laser	
ight source		ne	20,000h(*)	20,000h(*)	1	
Projection			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	0.67inch 9,600lm 3,380,000:1 16:10 Laser 20,000h(*) 30-300inch Wide: 0.78-8.22m 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°Horizontal +/-30°Vertical Support Support Support Support IP5X Mini D-SUB15pin x1 HDMI(2.0) x1 HDMI(2.0) x1 HDMI(2.0) x1 HDMI(2.0) x1 HDMI(2.0) x1 HDMI(2.0) x1 Syv1.5A x1 3.5mm mini jack x1 BNC x1 3.5mm mini jack x1 FV1.5A x1 3.5mm mini jack x1 Phone jack x1 D-SUB9pin x1 RJ45 x1 36dB/27dB 486 x 376 x 150mm About 13.5kg Temperature: 0°C~40°C Humidity: 10%~85% 100-240V 50/60HZ 620W/310W <0.5W Support	
Resolution			1,920 x 1,200 (WUXGA)	1,920 x 1,200 (WUXGA)		
Color reproduction			1,073,000,000	1,073,000,000	, , , , , , , , , , , , , , , , , , , ,	
Foucus			Motorized	Motorized	, , ,	
Zoom ratio			1.25x (Motorized)	1.6x (Motorized)		
ens shift			Horizontal ±25%/ Vertical ±55%	Horizontal ±25%/ Vertical ±55%	` '	
Keystone			+/-30°Vertical	+/-30°Horizontal +/-30°Vertical	+/-30°Horizontal	
our corne	rs correc	ction	Support	Support	Support	
arid adius				- ''	- ''	
Curved co	rection	TARREST TO THE PARTY OF THE PAR				
Oust-proof			IP5X	IP5X		
		Computer In	MiniD-SUB15pin x1	Mini D-SUB15pin x1		
		HDMI1	HDMI(2.0) x1	HDMI(2.0) x1	· · · · · · · · · · · · · · · · · · ·	
		HDMI2	HDMI(1.4) x1	HDMI(1.4) x1	` '	
	Input	HDBaseT	HDBaseT	HDBaseT	\	
	put	3D Sync In	BNC x1	BNC x1	****	
		Audio In	3.5mm mini jack x1	3.5mm mini jack x1		
		Wired IR	3.5mm mini jack (Blue) x1	3.5mm mini jack X1	•	
nterfaces		HDMI Out	HDMI(2.0) x1	HDMI(2.0) x1		
		3D Sync Out	BNC x1	BNC x1	, ,	
	Out nut	USB typeA	5V/1.5A x1	5V/1.5A x1		
	Out put	Audio Out	3.5mm mini jack x1	3.5mm mini jack x1		
		12V Power Trigger	<u> </u>	,	· · · · · · · · · · · · · · · · · · ·	
			Phone jack x1 D-SUB9pin x1	Phone jack x1 D-SUB9pin x1		
	Control	Computer Control (RS232C) Wired LAN	· · · · · · · · · · · · · · · · · · ·		<u>'</u>	
laina (at-	tandard/ eco)		RJ45 x1	RJ45 x1		
,			30dB/25dB	34dB/27dB		
	ension (WxDxH mm) -(without feet)		486 x 376 x 150mm	486 x 376 x150mm		
Veight			About 12kg Temperature: 0°C~40°C	About 13.5kg		
nvironme			Humidity: 10%~85%	Temperature: 0°C~40°C Humidity: 10%~85%	%~85% Humidity: 10%~85%	
Power sup			100-240V 50/60HZ	100-240V 50/60HZ		
		onsumption(standard/Eco)	470W/235W	620W/310W		
Stand by power consumption			<0.5W	<0.5W		
High altitude mode			Support	Support		
Speaker			10W x2	10W x2	10W x2	

^(*)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	Distanc	e (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	9.96	-4.24	0.20					

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				



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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)

