RICOH HIGH-END LASER PROJECTOR



PJ WUL6670 PJ WUL6680 PJ WUL6690

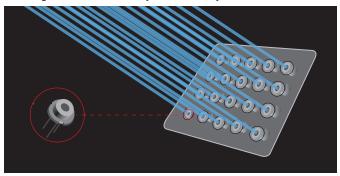
- √ 7,200lm/8,500lm/9,600lm high brightness





Multi-Module Laser Light Source

By utilizing a multi-module design, the laser beam originates from several laser diodes. This configuration ensures that even if one diode experiences a malfunction, the overall brightness remains relatively unaffected. This design significantly reduces the likelihood of abrupt loss of projection light sources during crucial presentations, resulting in enhanced stability and reliability.



High brightness

RICOH's PJ WUL6670/WUL6680/WUL6690 models incorporate advanced laser light source technology, ensuring a consistent projection of 7,200/8,500/9,600lm respectively. This technology enables crisp and vivid visuals even in well-lit surroundings, making them ideal for diverse settings like lecture halls, conference rooms, and other large venues.



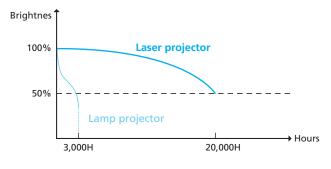
Low brightness projection in bright



High brightness projection in bright environments

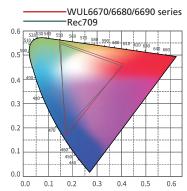
20,000h long life light source

Utilizing a laser light source enables a maintenance-free operation for up to 20,000 hours, significantly reducing maintenance time and costs in comparison to conventional lamp projectors.



High image quality

Employing a WUXGA chip for widescreen high-definition projection, the laser light source exhibits a pure texture, covering more than 97% of the Rec.709 color gamut range. RICOH's unique NCE natural gain technology, advanced RGB adjustment, and selectable GAMMA types allow for lifelike color reproduction to fit the needs of the environment.



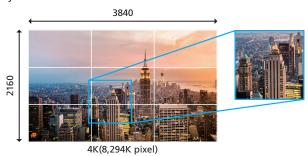
Fully sealed dust-proof design

Dust is a key factor affecting the lifespan of projectors. The key optical components of PJ WUL6670/WUL6680/WUL6690 use a specially designed sealing optical structure, achieving IP5X dust proof level. Even in dusty environments, RICOH projectors provide you with long-lasting, stable, and reliable demonstration applications.



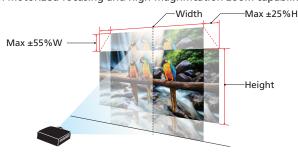
4K signal compatible display

Supporting 3840x2160 50/60HZ, equivalent to 4K resolution input, the RICOH PJ WUL6670/WUL6680/WUL6690 allows for direct playback of audio and video content in 4K resolution format.



Motorized focus / zoom / lens shift

With a wide horizonal shift of ±25% and vertical shift of ±55%, the motorized lens adjustment allows for more flexibility after installation. Eliminate the need to physically adjust the projector with motorized focusing and high-magnification zoom capabilities.



Multiple image adjustment functions

Horizontal and vertical ±30° keystone correction, four corner and sixpoint correction, and grid correction allows for projection onto curved surfaces such as spheres and arc screens. Geometric correction can be achieved effortlessly using only a remote control.



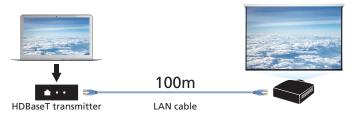
Built-in edge blending function

Built in edge-blending functions allow for seamless multi-projection of large images, eliminating the need for specialized software. This feature dynamically adjusts the fusion band width to eliminate excessive brightness in overlapping areas.



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 projection

This projector series supports both 360-degree installation and portrait projection, making it suitable for a wide range of applications like ceiling, floor, or portrait-oriented projection.





Supporting PIP and PBP

Use one projector to simultaneously project the content of two input sources on one screen.



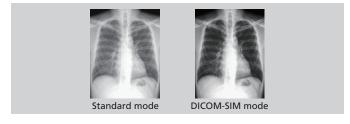


Picture in picture

Picture by picture

DICOM-SIM Mode

Effortlessly project high-definition medical images in a variety of environments with DICOM-SIM mode. The RICOH PJ WUL6670/ WUL6680/WUL6690 is optimized for displaying monochromatic medical images like X-Ray film, MRI scans, and tomography images.



Remote Control ID set-up

By using the remote control numbering function, up to 99 projectors can be set with different remote control numbers. The remote controller can control the corresponding projectors by switching different IDs, avoiding simultaneous control of multiple adjacent projectors when using the remote controller.



Network management, supporting remote monitoring of projectors

Compatible with various network protocols such as Extron, PJ Link, AMX, Telnet, and Webserver. Manage the status and operation of multiple projectors over network.



Interfaces

- 1. Screen Trigger terminal
- 2. Remote In terminal 3. HDBaseT terminal
- 4. LAN terminal
- 5. HDMI 2 terminal
- 6. HDMI 1 terminal
- 7. HDMI Out terminal
- 8. Computer In terminal
- 9. 3D Sync In terminal 10. 3D Sync Out 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)





Specifications

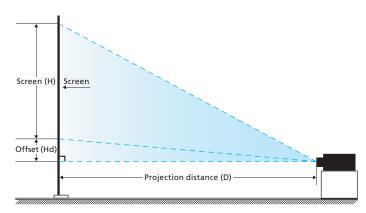
Model name			PJ WUL6670	PJ WUL6680	PJ WUL6690	
Projection	system		DLP	DLP	DLP	
Chip size			0.67inch	0.67inch	0.67inch	
Brightness	;		7,200lm	8,500lm	9,600lm	
Contrast r	atio		3,380,000:1	3,380,000:1	3,380,000:1	
Aspect rat	io		16:10	16:10	16:10	
ight sour	ce		Laser	Laser	Laser	
ight sour	ce life ti	me	20,000h(*)	20,000h(*)	20,000h(*)	
rojection	size		40-300inch	30-300inch	30-300inch	
Projection distance		e	Wide: 1.03-7.95m Wide: 0.78-8.22m Tele: 1.30-9.96m Tele: 1.26-13.06m		Wide: 0.78-8.22m Tele: 1.26-13.06m	
hrow rati	io		1.22~1.53	1.25~2.0	1.25~2.0	
esolution	n (native)	1,920 x 1,200 (WUXGA)	1,920 x 1,200 (WUXGA)	1,920 x 1,200 (WUXGA)	
olor repr	olor reproduction		1,073,000,000	1,073,000,000	1,073,000,000	
ocus .			Motorized	Motorized	Motorized	
oom ratio)		1.25x (Motorized)	1.6x (Motorized)	1.6x (Motorized)	
ens shift			Horizontal ±25%/ Vertical ±55% Horizontal ±25%/ Vertical ±55%		Horizontal ±25%/ Vertical ±55%	
eystone			+/-30°Horizontal +/-30°Vertical	+/-30°Horizontal +/-30°Vertical	+/-30°Horizontal +/-30°Vertical	
our corne	our corners correction		Support	Support	Support	
ix points correction		on	Support	Support	Support	
Curved correction			Support	Support	Support	
ust-proo	ust-proof		IP5X	IP5X	IP5X	
		Computer In	MiniD-SUB15pin x1	Mini D-SUB15pin x1	Mini D-SUB15pin x1	
	Input	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	
		HDBaseT	HDBaseT	HDBaseT	HDBaseT	
		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	3.5mm mini jack (Blue) x1	3.5mm mini jack (Blue) x1	3.5mm mini jack (Blue) x1	
terfaces		HDMI Out	HDMI(2.0) x1	HDMI(2.0) x1	HDMI(2.0) x1	
		3D Sync Out	BNC x1	BNC x1	BNC x1	
	Out	USB typeA	5V/1.5A x1	5V/1.5A x1	5V/1.5A x1	
	put	Audio Out	3.5mm mini jack x1	3.5mm mini jack x1	3.5mm mini jack x1	
		12V Power Trigger	Phone jack x1	Phone jack x1	Phone jack x1	
		Computer Control (RS232C)	D-SUB9pin x1	D-SUB9pin x1	D-SUB9pin x1	
	Control	Wired LAN	RJ45 x1	RJ45 x1	RJ45 x1	
Noise(standard/eco)		(0)	30dB/25dB	34dB/27dB	34dB/27dB	
Dimension (WxDxH mm) -(without feet)		H 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 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%	
ower supply voltage			100-240V 50/60HZ	100-240V 50/60HZ	100-240V 50/60HZ	
Maximum power 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	

^(*)Running time until the initial brightness reduces to 50%. (Life time varies depending on usage conditions and environment.)

Projection distance

i rojection distance										
PJ WUL6670 Projection distance										
Screen	Distance (D/m)		Offset (Hd/m)							
(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)						
(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					



Precautions

- Do not place vases, plant pots, cups, toiletries, medicines, small metal objects, or containers holding water
 or any other liquids, on or close to this machine. Fire or electric shock could result from spillage or if such
 objects or substances fall inside this machine.
- To avoid injury, please keep the machine and attachments out of the reach of children.
- Ensure the machine is only connected to a power supply within the specified voltage range to prevent damage.
- Do not damage, break, or modify the power cord. Also, do not place heavy objects on the power cord, or pull the cord or bend it severely. Doing so could result in fire or electric shock.
- In case of smoke, odors, or unusual behaviors, please power off the machine immediately, and disconnect
 the power cord from the outlet. Please contact your service representative and report the problem.
- If metal objects, or water or other fluids fall inside this machine, you must turn off its power immediately.
 After turning off the power, be sure to disconnect the power cord plug from the wall outlet. Then contact your service representative and report the problem. Do not use the machine. Doing so could result in fire or electric shock.
- Never operate this unit on AC power during a thunderstorm. If you see lightning or hear thunder, never
 touch the unit, cables and/or peripherals. An electric surge caused by the storm, may result in an electrical
 shock or damage to the unit.
- To avoid injury or suffocation, please keep plastic bags and other packaging materials out of reach of small children.
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- * This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)
- * This product includes software written by Tim Hudson (tjh@cryptsoft.com)