



# About PjLink

PjLink was established by the JBMIA (Japan Business Machine and Information System Industries Association) as a standard protocol for controlling network-compatible projectors as part of their efforts to standardize projector control protocols.

This projector complies with the PjLink Class2 standard established by the JBMIA.

The port number used by the search function of PjLink is 4352 (UDP).

You need to make network settings before you can use PjLink. See the following for more information on network settings. [p.82](#)

It supports all commands defined by PjLink Class2 except for the following commands. The compliance is confirmed by the PjLink standard adaptability verification.

URL:<http://pjlink.jbmia.or.jp/english/>

- **Non-compatible commands**

Function		PjLink Command
Mute settings	Image muting set	AVMT 11
	Audio muting set	AVMT 21

- **Correspondence table for port name and source number**

Port name	Source number
PC	11
HDMI1	32
HDMI2	33
WirelessHD*	34
LAN	52

\* EH-TW9400W/EH-TW8400W only

- Manufacturer name displayed for "Manufacture name information query"

**EPSON**

- Model name displayed for "Product name information query"

EPSON TW9400/PC6050UB /H928A

EPSON TW9400W

EPSON TW8400/HC5050UB/H930A

EPSON TW8400W/HC5050UBe/H931A

## Optional Accessories and Consumables

The following optional accessories/consumables are available for purchase if required. This list of optional accessories/consumables is current as of November 2018. Details of accessories are subject to change without notice.

Varies depending on country of purchase.

### Optional Items

Name	Model No.	Explanation
Ceiling mount*	ELPMB22 ELPMB30	Use when installing the projector on a ceiling.
Ceiling pipe 450 (450 mm white)*	ELPFP13	Use when installing the projector on a high ceiling.
Ceiling pipe 700 (700 mm white)*	ELPFP14	
Cable cover	ELPCC05	Use this when installing the projector on a ceiling to cover the cables and improve the overall appearance. Do not attach the cable cover when the cable is secured with an HDMI cable clamp.
Computer cable (1.8 m)	ELPKC02	Use when projecting a computer's screen.
Computer cable (3.0 m)	ELPKC09	
Computer cable (20.0 m)	ELPKC10	
Wireless LAN unit	ELPAP10	Use when connecting an external device to the projector via a wireless LAN to project images.

\* Special expertise is required to suspend the projector from a ceiling. Contact your local dealer.

### Consumables

Name	Model No.	Explanation
Lamp unit	ELPLP89	Use as a replacement for used lamps. (1 lamp)
Air filter	ELPAF39	Use as a replacement for used air filters. (1 air filter)



# Supported Resolutions

If the projector receives higher resolution signals than the resolution of the projector panel, the image quality may be degraded.

The projector supports signals marked with a check symbol.

## PC

Signal Format	Resolution (Dots)		V Sync (Hz)	Dotclk (MHz)	Computer/BNC	HDMI								
					RGB	RGB		YCbCr						
						RGB		4:4:4		4:2:2		4:2:0		
						8	10,12	8	10,12	8	10,12	8	10,12	
VGA	640	480	60	25.175	✓	✓								
SVGA	800	600	60	40.000	✓									
XGA	1024	768	60	65.000	✓									
WXGA	1280	768	60	79.500	✓									
	1280	800	60	83.500	✓									
	1366	768	60	85.500	✓									
WXGA++	1600	900	60	108.000	✓									
SXGA	1280	960	60	108.000	✓									
	1280	1024	60	108.000	✓									

## SD

Signal Format	Resolution (Dots)		V Sync (Hz)	Dotclk (MHz)	Computer/BNC	HDMI								
					RGB	RGB		YCbCr						
						RGB		4:4:4		4:2:2		4:2:0		
						8	10,12	8	10,12	8	10,12	8	10,12	
SDTV (480i)	720	480	59.94	13.500		✓	✓	✓	✓	✓	✓			
SDTV (576i)	720	576	50	13.500		✓	✓	✓	✓	✓	✓			
SDTV (480p)	720	480	59.94	27.000		✓	✓	✓	✓	✓	✓			
SDTV (576p)	720	576	50	27.000		✓	✓	✓	✓	✓	✓			

HD

Signal Format	Resolution (Dots)		V Sync (Hz)	Dotclk (MHz)	Computer/BNC	HDMI							
					RGB	RGB		YCbCr					
								4:4:4		4:2:2		4:2:0	
						8	10,12	8	10,12	8	10,12	8	10,12
HDTV (720p)	1280	720	50	74.250		✓	✓	✓	✓	✓	✓		
			59.94	74.176		✓	✓	✓	✓	✓	✓		
			60	74.250		✓	✓	✓	✓	✓	✓		
HDTV (1080i)	1920	1080	50	74.250		✓	✓	✓	✓	✓	✓		
			59.94	74.176		✓	✓	✓	✓	✓	✓		
			60	74.250		✓	✓	✓	✓	✓	✓		
HDTV (1080p)	1920	1080	23.98	74.176		✓	✓*2	✓	✓*2	✓	✓*2		
			24	74.250		✓	✓*2	✓	✓*2	✓	✓*2		
			29.97	74.176		✓	✓*2	✓	✓*2	✓	✓*2		
			30	74.250		✓	✓*2	✓	✓*2	✓	✓*2		
			50	148.500		✓	✓*1	✓	✓*1	✓	✓*1,2		
			59.94	148.352		✓	✓*1	✓	✓*1	✓	✓*1,2		
			60	148.500		✓	✓*1	✓	✓*1	✓	✓*1,2		

\*1 Signals from HDMI1/HDMI2 ports are supported. WirelessHD Transmitter supports pass-through only.

\*2 HDR is supported. (For HDR, HDR10 and HLG are supported.)

4K

Signal Format	Resolution (Dots)		V Sync (Hz)	Dotclk (MHz)	Computer/BNC	HDMI							
					RGB	RGB		YCbCr					
								4:4:4		4:2:2		4:2:0	
						8	10,12	8	10,12	8	10,12	8	10,12
3840x2160	3840	2160	23.98	296.703		✓	✓*2	✓	✓*2	✓	✓*2		
			24	297.000		✓	✓*2	✓	✓*2	✓	✓*2		
			25	297.000		✓	✓*2	✓	✓*2	✓	✓*2		
			29.97	296.703		✓	✓*2	✓	✓*2	✓	✓*2		
			30	297.000		✓	✓*2	✓	✓*2	✓	✓*2		
			50	297.000								✓	✓*1,2,3
			59.94	296.703								✓	✓*1,2,3
			60	297.000								✓	✓*1,2,3
			50	594.000		✓*1		✓*1		✓*1	✓*1,2		
			59.94	593.407		✓*1		✓*1		✓*1	✓*1,2		
			60	594.000		✓*1		✓*1		✓*1	✓*1,2		
4096x2160	4096	2160	23.98	296.703		✓	✓*2	✓	✓*2	✓	✓*2		
			24	297.000		✓	✓*2	✓	✓*2	✓	✓*2		
			25	297.000		✓	✓*2	✓	✓*2	✓	✓*2		
			29.97	296.703		✓	✓*2	✓	✓*2	✓	✓*2		
			30	297.000		✓	✓*2	✓	✓*2	✓	✓*2		
			50	297.000								✓	✓*1,2,3
			59.94	296.703								✓	✓*1,2,3
			60	297.000								✓	✓*1,2,3
			50	594.000		✓*1		✓*1		✓*1	✓*1,2		
			59.94	593.407		✓*1		✓*1		✓*1	✓*1,2		
			60	594.000		✓*1		✓*1		✓*1	✓*1,2		

\*1 Signals from HDMI1/HDMI2 ports are supported. WirelessHD Transmitter supports pass-through only.

- \*2 HDR is supported. (For HDR, HDR10 and HLG are supported.)
- \*3 Signals from HDMI1/HDMI2 ports are supported. Signals from WirelessHD Transmitter are converted from 4:2:0 to 4:2:2.

### 3D

Signal Format	Resolution (Dots)		V Sync (Hz)	Dotclk (MHz)	3D Format	HDMI							
						RGB		YCbCr					
								4:4:4		4:2:2		4:2:0	
						8	10,12	8	10,12	8	10,12	8	10,12
HDTV (720p)	1280	720	60	148.500	Frame Packing	✓	✓*1	✓	✓*1	✓	✓*1		
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom	✓	✓	✓	✓	✓	✓		
HDTV (720p)	1280	720	59.94	148.500	Frame Packing	✓	✓*1	✓	✓*1	✓	✓*1		
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom	✓	✓	✓	✓	✓	✓		
HDTV (720p)	1280	720	50	148.500	Frame Packing	✓	✓*1	✓	✓*1	✓	✓*1		
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom	✓	✓	✓	✓	✓	✓		
HDTV (1080i)	1920	1080	60	148.500	Frame Packing								
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom								
HDTV (1080i)	1920	1080	59.94	148.500	Frame Packing								
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom								
HDTV (1080i)	1920	1080	50	148.500	Frame Packing								
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom								
HDTV (1080p)	1920	1080	24	148.500	Frame Packing	✓	✓*1	✓	✓*1	✓	✓*1		
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom	✓	✓	✓	✓	✓	✓		
HDTV (1080p)	1920	1080	23.98	148.500	Frame Packing	✓	✓*1	✓	✓*1	✓	✓*1		
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom	✓	✓	✓	✓	✓	✓		
HDTV (1080p)	1920	1080	60	297.000	Frame Packing								
				148.500	Side by Side	✓	✓*1	✓	✓*1	✓	✓*1		
				148.500	Top and Bottom								
HDTV (1080p)	1920	1080	59.94	297.000	Frame Packing								
				148.500	Side by Side	✓	✓*1	✓	✓*1	✓	✓*1		
				148.500	Top and Bottom								
HDTV (1080p)	1920	1080	50	297.000	Frame Packing								
				148.500	Side by Side	✓	✓*1	✓	✓*1	✓	✓*1		
				148.500	Top and Bottom								

- \*1 Signals from HDMI1/HDMI2 ports are supported. WirelessHD Transmitter supports pass-through only.

## 3D Input Signals MHL (via a WirelessHD Transmitter\*)

Signal	Refresh Rate (Hz)	Resolution (dots)	3D Format		
			Frame Packing	Side by Side	Top and Bottom
HDTV (720p)	50/60	1280 x 720	-	✓	✓
HDTV (1080i)	50/60	1920 x 1080	-	✓	-
HDTV (1080p)	50/60	1920 x 1080	-	-	-
HDTV (1080p)	24	1920 x 1080	-	✓	✓

\* HDMI4 port only

## WirelessHD Input Signal MHL\*

Signal	Refresh Rate (Hz)	Resolution (dots)
SDTV (480i)	60	720 x 480
SDTV (576i)	50	720 x 576
SDTV (480p)	60	720 x 480
SDTV (576p)	50	720 x 576
HDTV (720p)	50/60	1280 x 720
HDTV (1080i)	50/60	1920 x 1080
HDTV (1080p)	24/30/50/60	1920 x 1080
4K x 2K	24/25/30	3840 x 2160

\* HDMI4 port only



## Specifications

Product name	H928A/H929A/H931A/EH-TW9400/EH-TW8400W/EH-TW8400 Pro Cinema 6050UB/Home Cinema 5050UBe/Home Cinema 5050UB	
Appearance	520 (W) x 170 (H) x 450 (D) mm (not including adjustable foot)	
Panel Size	0.74" wide	
Display method	Polysilicon TFT active matrix	
Resolution	1920 (W) x 1080 (H) x 3	
Focus adjustment	Motorized	
Zoom adjustment	Motorized (Approx. 1 to -2.1)	
Lamp (light source)	UHE lamp 250 W, Model No.: ELPLP89	
Lamp replacement time	3400 hours	
Power supply	100 - 240 V AC $\pm$ 10%, 50/60 Hz, 3.8 - 1.7 A	
Power consumption	100 to 120 V area	Rated power consumption: 373 W
		Standby power consumption (Communication On): 2.0 W
		Standby power consumption (Communication Off): 0.3 W
	220 to 240 V area	Rated power consumption: 355 W
		Standby power consumption (Communication On): 2.0 W
		Standby power consumption (Communication Off): 0.3 W
Operating altitude	Altitude 0 to 3048 m	
Operating temperature	+5 to +35°C (No condensation) (at an altitude of 0 to 2286 m) +5 to +30°C (No condensation) (at an altitude of 2287 to 3048 m)	
Storage temperature	-10 to +60°C (No condensation)	
Mass	Approx. 11 kg	

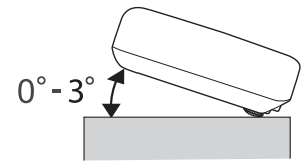
Connectors	PC port	1	Mini D-Sub15-pin (female) blue
	HDMI port	2	HDMI HDCP2.2 supported,CEC signals supported, 3D signals supported, Deep Color
	RS-232C port	1	Mini D-Sub 9-pin (male)
	Trigger Out port	1	Stereo mini jack (3.5Φ)
	LAN port	1	RJ-45
	Service port*	1	USB connector (Type B)
	USB-A port *	1	USB connector (Type A)
	USB port (for Opt.HDMI power supply)*	1	

\* Supports USB 2.0. However, USB ports are not guaranteed to operate all devices that support USB.

This product is also designed for IT power distribution system with phase-to-phase voltage 230V.

## Angle of tilt

If you use the projector tilted at an angle of more than 3°, the projector could be damaged or it may lead to an accident.

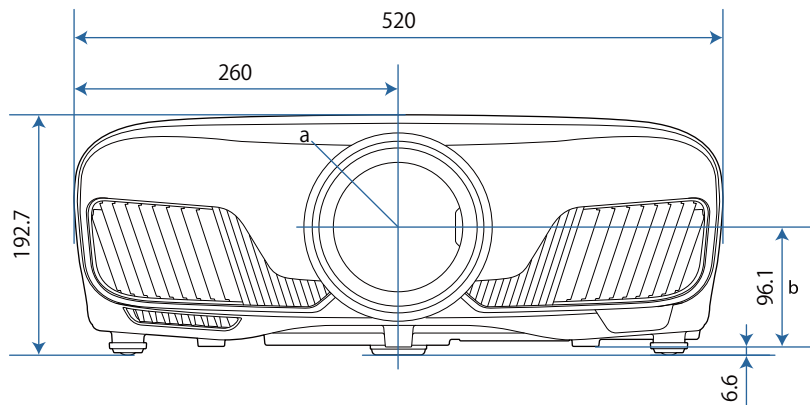




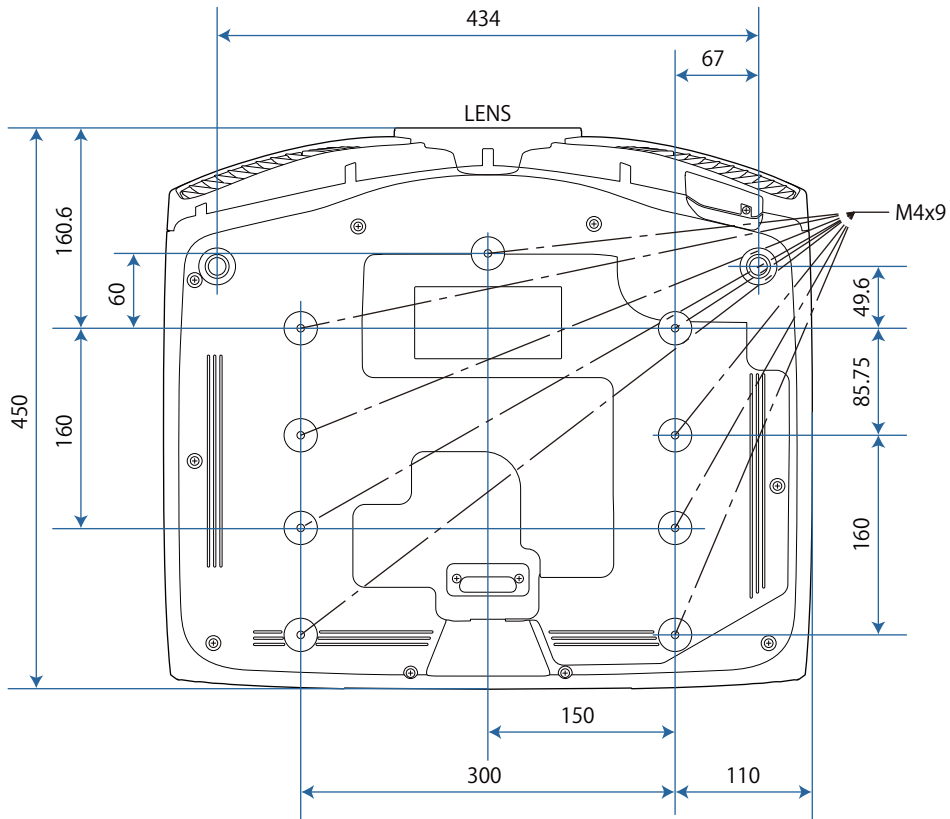


# Appearance

Units: mm
































- a Center of lens
- b Distance from center of lens to suspension bracket fixing point



## List of Safety Symbols

The following table lists the meaning of the safety symbols labeled on the equipment.

Symbol mark	Approved standards	Meaning
	IEC60417 No. 5007	"ON" (power) To indicate connection to the mains.
	IEC60417 No. 5008	"OFF" (power) To indicate disconnection from the mains.
	IEC60417 No. 5009	Stand-by To identify the switch or switch position by means of which part of the equipment is switched on in order to bring it into the stand-by condition.
	ISO7000 No. 0434B IEC3864-B3.1	Caution To identify general caution when using the product.
	IEC60417 No. 5041	Caution, hot surface To indicate that the marked item can be hot and should not be touched without taking care.
	IEC60417 No. 6042 ISO3864-B3.6	Caution, risk of electric shock To identify equipment that has risk of electric shock.
	IEC60417 No. 5957	For indoor use only To identify electrical equipment designed primarily for indoor use.
	IEC60417 No. 5926	Polarity of d.c. power connector To identify the positive and negative connections (the polarity) on a piece of equipment to which a d.c. power supply may be connected.
	---	
	IEC60417 No. 5001B	Battery, general On battery powered equipment. To identify a device for instance a cover for the battery compartment, or the connector terminals.
	IEC60417 No. 5002	Positioning of cell To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder.
	---	
	IEC60417 No. 5019	Protective earth To identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth electrode.
	IEC60417 No. 5017	Earth To identify an earth (ground) terminal in cases where neither the symbol  is explicitly required.

Symbol mark	Approved standards	Meaning
	IEC60417 No. 5032	Alternating current To indicate on the rating plate that the equipment is suitable for alternating current only; to identify relevant terminals.
	IEC60417 No. 5031	Direct current To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals.
	IEC60417 No. 5172	Class II equipment To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.
	ISO 3864	General prohibition To identify actions or operations that are prohibited.
	ISO 3864	Contact prohibition To indicate injury that could occur due to touching a specific part of the equipment.
	---	Never look into the projection lens while the projector is on.
	---	To indicate that the marked item don't place anything on projector.
	ISO3864 IEC60825-1	Caution, laser radiation To indicate the equipment has a laser radiation part.
	ISO 3864	Disassembly prohibition To indicate a risk of injury, such as electric shock, if the equipment is disassembled.
	IEC60417 No. 5266	Standby, partial standby To indicate that part of the equipment is in the ready status.
	ISO3864 IEC60417 No. 5057	Caution, movable parts To indicate that you must keep away from movable parts according to protection standards.
	IEC 60417-6056	Caution (movable fan blades) To indicate that you must keep away from the blades of the movable fan according to protection standards.
	IEC 60417-6043	Caution (sharp corners) To indicate that you must not touch the sharp corners of the product according to protection standards.
	--	Never look into the projection lens while the projector is on.



# Glossary

This section briefly explains the difficult terms that are not explained in context in the text of this guide. For details, refer to other commercially available publications.

Aspect Ratio	<p>The ratio between an image's length and its height. Screens with a horizontal:vertical ratio of 16:9, such as HDTV screens, are known as wide screens.</p> <p>SDTV and general computer displays have an aspect ratio of 4:3.</p>
HDCP	<p>HDCP is an abbreviation for High-bandwidth Digital Content Protection. It is used to prevent illegal copying and protect copyrights by encrypting digital signals sent over DVI and HDMI ports. Because the HDMI port on this projector supports HDCP, it can project digital images protected by HDCP technology. However, the projector may not be able to project images protected with updated or revised versions of HDCP encryption.</p>
HDMI™	<p>An abbreviation for High Definition Multimedia Interface. This is the standard by which HD images and multichannel audio signals are digitally transmitted.</p> <p>HDMI™ is a standard aimed at digital consumer electronics and computers. By not compressing the digital signal, the image can be transferred at the highest quality possible. It also provides an encryption function for the digital signal.</p>
HDTV	<p>An abbreviation for High-Definition Television. This refers to high-definition systems which satisfy the following conditions.</p> <ul style="list-style-type: none"> <li>• Vertical resolution of 720p or 1080i or greater (p = Progressive, i = Interlace)</li> <li>• Screen aspect of 16:9 Dolby Digital audio reception and playback (or output)</li> </ul>
Interlace	<p>Transmits information needed to create one screen by sending every other line, starting from the top of the image and working down to the bottom. Images are more likely to flicker because one frame is displayed every other line.</p>
MHL	<p>An abbreviation for Mobile High-definition Link, which is a standard high-definition interface that enables high-speed transfer of video signals on mobile devices.</p> <p>It is a standard targeting smartphones and tablets that transfers uncompressed digital signals without loss of quality and also enables simultaneous charging of such devices.</p>
Pairing	<p>Register devices in advance when connecting with Bluetooth devices to ensure mutual communication.</p>
SDTV	<p>An abbreviation for Standard Definition Television. This refers to standard television systems which do not satisfy the conditions for HDTV High-Definition Television.</p>
SVGA	<p>A screen size standard with a resolution of 800 (horizontal) x 600 (vertical) dots.</p>
SXGA	<p>A screen size standard with a resolution of 1,280 (horizontal) x 1,024 (vertical) dots.</p>
VGA	<p>A screen size standard with a resolution of 640 (horizontal) x 480 (vertical) dots.</p>
XGA	<p>A screen size standard with a resolution of 1,024 (horizontal) x 768 (vertical) dots.</p>
YCbCr	<p>In component image signals for SDTV, Y is the brightness, while Cb and Cr indicate the color difference.</p>
YPbPr	<p>In component image signals for HDTV, Y is the brightness, while Pb and Pr indicate the color difference.</p>

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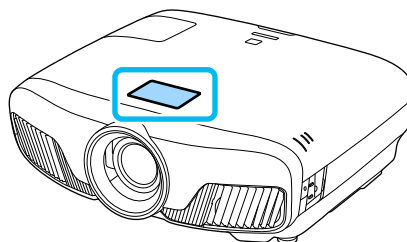
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## Warning Labels

### Warning

- This product comes with warning labels.



 RG2	<b>⚠ WARNING</b> <b>WARNING:</b> Never look into the lens. <b>AVERTISSEMENT :</b> Ne regardez jamais dans l'objectif. <b>WARNUNG :</b> Blicken Sie niemals in das Objektiv.
 	<b>⚠ CAUTION</b> <b>CAUTION:</b> Do not put your finger in the moving parts of the projector's lens. <b>ATTENTION :</b> Ne pas mettre le doigt dans les parties mobiles de l'objectif du projecteur. <b>ACHTUNG:</b> Vermeiden Sie den Kontakt mit beweglichen Teilen der Linse.

 RG2	<b>⚠ WARNING</b> <b>WARNING:</b> Never look into the lens. 경고: 작동중 절대 렌즈 안을 보지 마십시오. 警語: 請勿直視鏡頭。
 	<b>⚠ CAUTION</b> <b>CAUTION:</b> Do not put your finger in the moving parts of the projector's lens. 주의: 프로젝터 렌즈의 움직이는 부분에 손가락을 넣지 마세요. 注意: 請勿將手指伸入投影機鏡頭的移動式零件內。


- As with any bright source, do not stare into the beam, RG2 IEC/EN 62471-5:2015.

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