

## Laser Projector



### Multifunctional projectors suitable for use in large classrooms including university



LP-EU5002 / LP-EW5002 / LP-EX5002

Specifications			
Model name	LP-EU5002	LP-EW5002	LP-EX5002
Display system	3LCD		
Display Size of effective display area	0.64", aspect ratio 16:10	0.59", aspect ratio 16:10	0.63", aspect ratio 4:3
Number of pixels	2,304,000 pixels H : 1,920 x V : 1,200 (WUXGA)	1,024,000 pixels H : 1,280 x V : 800 (WXGA)	786,432 pixels H : 1,024 x V : 768 (XGA)
Lens	Manual (1.6x)		
Zoom	Manual		
Focus	Manual		
Light source	Laser diode		
Screen size	30 - 300 inch		
Light output (Brightness)	5,000 lm *1	5,000 lm *1	5,300 lm *1
Contrast ratio (full white / full black)	500,000 : 1 *1		
Speaker	16 W x 1 mono		
Displayable scanning frequency	Horizontal 15 - 106 kHz Vertical 50 - 120 Hz		
Display resolution	Computer VGA, SVGA, XGA, WXGA, SXGA, WXGA+, WXGA++, WSXGA+, UXGA, Full HD, WUXGA**2, Mac 16" Video NTSC, NTSC4.43, PAL, SECAM, PAL-M, PAL-N, PAL(60Hz), 480i@60, 480p@60, 576i@50, 576p@50, 720p@50/60, 1080i@50/60, 1080p@50/60		
Terminals	HDMI IN HDMI connector x 3 (HDMI IN 2 supports MHL input)		
	HDMI connector x 2 (HDMI IN 2 supports MHL input)		
	COMPUTER IN 1 Mini D-sub 15-pin connector x 1		
	COMPUTER IN 2 / MONITOR OUT Mini D-sub 15-pin connector x 1		
	VIDEO IN RCA connector x 1		
	AUDIO IN 3.5mm stereo mini connector x 2, RCA connector L/R x 1		
	AUDIO OUT 3.5mm stereo mini connector x 1		
	CONTROL IN (RS-232C) D-sub 9-pin connector x 1		
	LAN RJ-45 connector x 1		
	USB-A USB type A x 2 (PC-LESS Presentation or Wireless LAN (option))		
	USB-B USB type B x 1 (USB mouse control) USB type B x 1 (USB Display and USB mouse control)		
Operating temperature	0 - 40 °C *3 (The brightness of light source may be reduced automatically over 35 °C.)		
Power requirements	AC 100 - 120 V (50/60Hz), 3.8 A AC 220 - 240 V (50/60Hz), 1.9 A AC 100 - 120 V (50/60Hz), 3.7 A AC 220 - 240 V (50/60Hz), 1.9 A		
Power consumption	AC 100 - 120 V : 370 W AC 220 - 240 V : 360 W AC 100 - 120 V : 360 W AC 220 - 240 V : 350 W		
Standby mode power consumption	Less than 0.5 W *4		
Standard outside dimensions (W x H x D)	512 mm x 152 mm x 424 mm (20.2" x 6.0" x 16.7") (Including protrusions) 506 mm x 136 mm x 424 mm (19.9" x 5.4" x 16.7") (Excluding protrusions)		
Weight	Approx. 7.5 kg (16.5 lbs.)		
Accessories	Remote control with two AA batteries, Power cord, Computer cable, User's manual, Security label, Lens cover, Adapter cover, HDMI cable holder, Cable tie, Hook metal, Screw, Ferrite core		
Optional parts	Filter set LX43251		
	Mounting accessories HAS-9110 (Bracket for fixing mount), HAS-1045 (Slim adapter for fixing mount), HAS-204L (Standard adapter for fixing mount), HAS-304H (Long adapter for fixing mount)		
	USB wireless adapter USB-WL-5G *5		
Network	Wired 100BASE-TX / 10BASE-T Wireless (option) IEEE 802.11a/b/g/n/ac		

\*1: When PICTURE MODE is set to DYNAMIC, and LIGHT OUTPUT is set to NORMAL 100 %. \*2: For LP-EU5002 only. WUXGA (60 Hz) Reduced Blanking. \*3: 0 - 40 °C at altitude from 0 m to 1,600 m. 0-35 °C at altitude from 1,600 m to 3,048 m. \*4: SAVING mode disables the functions of MONITOR OUT, AUDIO OUT, speaker sound, network communication, RS-232C control except POWER ON command, etc. in standby. \*5: The availability of the USB-WL-5G varies depending on the country and the region.

### Terminals

LP-EU5002

LP-EW5002 / LP-EX5002

(1)HDMI IN 1 (2)HDMI IN 2 / MHL (3)HDMI IN 3 (4)COMPUTER IN 1 (5)COMPUTER IN 2 / MONITOR OUT (6)CONTROL (7)VIDEO IN (8)AUDIO IN 1 (9)AUDIO IN 2 (10)AUDIO IN 3 (11)AUDIO OUT (12)USB-A (13)USB-B (14)LAN

### Dimensions

424 mm (16.7")  
512 mm (20.2")  
152 mm (6.0")

### Environment

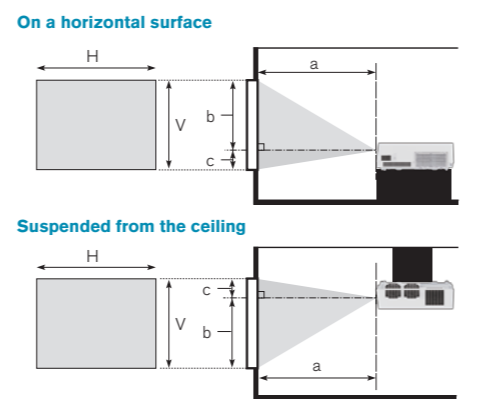
- Compliance with EU Directive RoHS\*1
- Power saving mode engaged during standby
- Long Life mode
- No use of mercury lamp

\*1 RoHS is the acronym of "Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment."

—Design and specifications are subject to change without notice.

• The projected images and comparison photos in this catalog are simulations. • LCD panels, polarizers and other optical components and cooling fans may need replacement after prolonged usage. For more details, please consult a Hitachi sales representative. • Do not use in places where there is a lot of water, dampness, steam, dust, soot or tobacco smoke. This may result in fire or malfunction. • Optical components (light source, LCD panel, polarizing plate, PBS [polarizer beam splitter]) have limited service lives. They must be repaired or replaced if they are used for a long period of time. • During use and immediately after use, do not touch anywhere near the vents as these parts are extremely hot. • Optical components other than the light source: If the projector is used for six hours or more per day, they may need to be replaced in less than a year. • LCD panel: If the projector is used continuously for six hours or more, its replacement cycle may be shortened. • Blu-ray Disc™ and Blu-ray™ are trademarks of Blu-ray Disc Association. • Crestron® and Crestron RoomView® are registered trademarks of Crestron Electronics, Inc. in the United States and other countries. • DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information. • MHL, the MHL logo, and Mobile High-Definition Link are trademarks or registered trademarks of MHL, LLC in the United States and other countries. • HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries. • All other trademarks are the properties of their respective owners.

### Projection Distance



H x V : Screen size  
a : Projection distance (from the projector's front panel to screen. Tolerance ±10 %)  
b : Screen height from lens center to top (when installed on a horizontal surface)  
c : Screen height from lens center to bottom (when installed on a horizontal surface)  
\*The figures above are not drawn to scale.

#### LP-EU5002 16 : 10 screen

Screen type	Screen size		Projection distance		Screen height	
	H	V	a(min.)	a(max.)	b	c
(inch)	m	inch	m	inch	cm	inch
60	1.3	51	0.8	32	1.5	60
80	1.7	68	1.1	42	2.1	82
100	2.2	85	1.3	53	2.6	104
120	2.6	102	1.6	64	3.2	127
150	3.2	127	2.0	79	4.1	160
200	4.3	170	2.7	106	5.5	216

#### LP-EW5002 16 : 10 screen

Screen type	Screen size		Projection distance		Screen height	
	H	V	a(min.)	a(max.)	b	c
(inch)	m	inch	m	inch	cm	inch
60	1.3	51	0.8	32	1.7	65
80	1.7	68	1.1	42	2.3	89
100	2.2	85	1.3	53	2.9	113
120	2.6	102	1.6	64	3.5	137
150	3.2	127	2.0	79	4.4	174
200	4.3	170	2.7	106	5.9	234

#### LP-EX5002 4 : 3 screen

Screen type	Screen size		Projection distance		Screen height	
	H	V	a(min.)	a(max.)	b	c
(inch)	m	inch	m	inch	cm	inch
60	1.2	48	0.9	36	1.5	61
80	1.6	64	1.2	48	2.1	84
100	2.0	80	1.5	60	2.7	106
120	2.4	96	1.8	72	3.3	129
150	3.0	120	2.3	90	4.1	163
200	4.1	160	3.0	120	5.6	220

**LASER RADIATION**  
AVOID DIRECT EYE EXPOSURE  
CLASS 3R LASER PRODUCT  
Wave length : 449-461 nm  
Max. Output : 148 mW  
IEC 60825-1:2007

**RAYONNEMENT LASER**  
ÉVITER D'EXPOSER  
DIRECTEMENT LENS YEUX  
PRODUIT LASER DE CLASSE 3R  
Longueur D'onde : 449-461 nm  
Sortie max. : 148 mW  
IEC 60825-1:2007

**雷射輻射**  
避免眼睛受到直接照射  
3R類雷射產品  
波長 : 449-461 nm  
最大輸出 : 148 mW  
IEC 60825-1:2007

CLASS 1 LASER PRODUCT  
PRODUIT LASER DE CLASSE 1  
LASERPRODUKT DER KLASSE 1  
IEC/EN 60825-1:2014





\*Projected images are simulations.

## LINE UP

Local availability may be limited.



**LP-EU5002** WUXGA 5,000 lm



**LP-EW5002** WXGA 5,000 lm



**LP-EX5002** XGA 5,300 lm

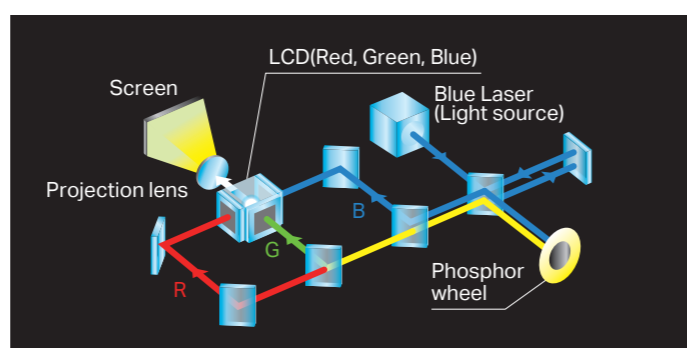


## High Reliability and Stability

### Long Life 20,000 hour Laser Light Source

Hitachi's laser light source projectors have 20,000 hours\*<sup>1</sup> of light source life. Use for 50,000 hours\*<sup>1</sup> can be achieved in LONG LIFE 2 mode. Also, users may select their desired operation mode. Furthermore, in addition to the light source, the phosphor wheel is also dust resistant, suppressing brightness level reduction by preventing dust from coming into contact with the optical parts. Users can enjoy using the projector for long periods of time while maintaining its brightness.

\*<sup>1</sup> For laser light source. The value is an estimate and may vary depending on the use environment or use condition.



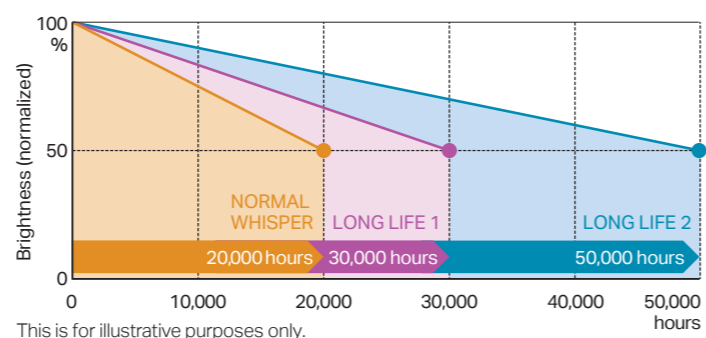
LIGHT OUTPUT	Brightness* <sup>2</sup>		Light source life* <sup>3</sup>	Noise* <sup>4</sup>
	LP-EU5002	LP-EX5002		
NORMAL	5,000 lm	5,300 lm	20,000 hours	34 dB
LONG LIFE 1	3,750 lm	3,975 lm	30,000 hours	
LONG LIFE 2	2,500 lm	2,650 lm	50,000 hours	
WHISPER	2,500 lm	2,650 lm	20,000 hours	28 dB

\*<sup>2</sup> These are reference values and may vary depending on products.

\*<sup>3</sup> The values are an estimate and may vary depending on the use environment or use condition.

\*<sup>4</sup> Reference values when used in an ambient temperature of 23 °C. The noise level varies by the projector model, installation environment, and use condition.

Brightness Deterioration Comparison between Light Output Modes



This is for illustrative purposes only.

## High Image Quality

### Wide Range of Color Reproduction

The color reproduction range is wide compared to lamp light projectors\*<sup>5</sup> and projects brilliantly colored images.

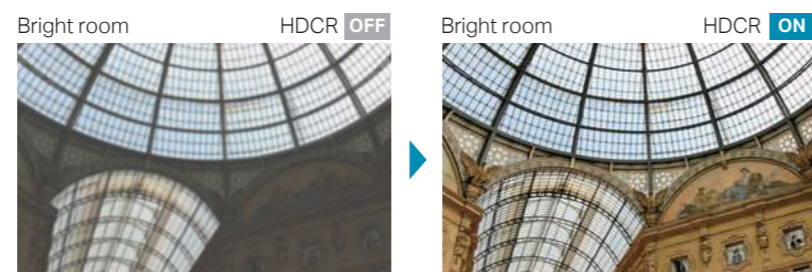
\*<sup>5</sup> Comparison with Hitachi 5,000-lumen lamp light source LCD projectors.



\* The projected image is simulations.

### ACCENTUALIZER and HDCR

ACCENTUALIZER makes pictures look more real by enhancing shade, sharpness, and gloss to make pictures clearer. The HDCR function corrects blurred images caused by room lighting or outside light sources, and creates an effect similar to increasing contrast resulting in clear images even in bright rooms.

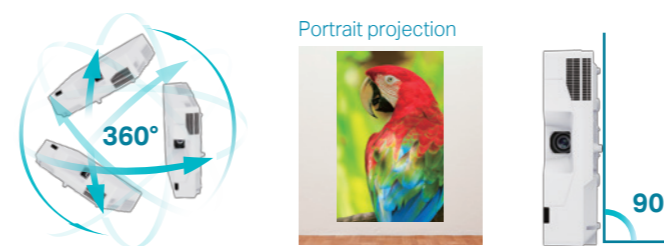


\* The projected images and comparison photos are simulations.

## Installability

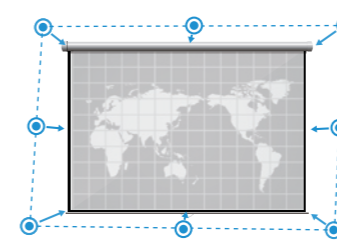
### 360° Projection

This projector provides great installation flexibility as it can be installed at various angle. By rotating the projector 90 degrees, you can project vertically long images (Portrait Projection).



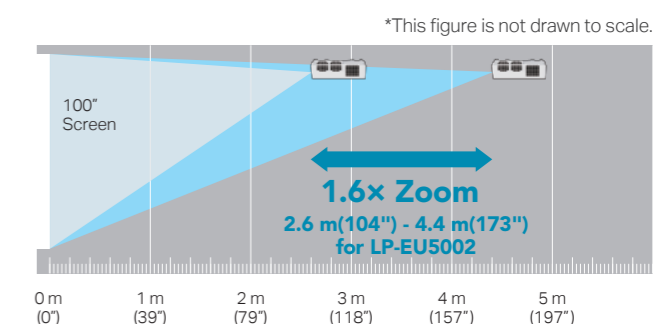
### Perfect Fit

Equipped with Perfect Fit with which the position of four corners and four sides of a projected image can be adjusted. With the remote controller at hand, you can quickly correct the distorted image such as pincushion or barrel.



### 1.6x Zoom Lens

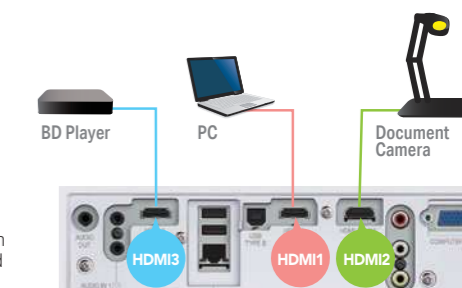
Featuring a powerful 1.6x manual zoom lens, the projectors allow for a greater range of installation possibilities.



\*This figure is not drawn to scale.

### 3 HDMI® inputs (LP-EU5002 only) \*<sup>6</sup>

Equipped with 3 HDMI input terminals for the current widely-used interface.



\*<sup>6</sup> Two HDMI inputs on LP-EW5002 and LP-EX5002.

## Convenient Functions

### Easy Schedule Setting

You can schedule routine and special projector events, including power on, power off, input selection and other settings.

EVENT SCHEDULE	
MONDAY to FRIDAY	
08:00	POWER ON
	INPUTSOURCE COMPUTER IN 1
12:30	INPUTSOURCE HDMI 1
17:00	POWER OFF

\* This function requires a coin battery for the internal clock or connecting to an SNTP server on network.  
\* When STANDBY MODE is set to NETWORK(WOL) or SAVING, this function (ex. POWER ON) at standby mode will not be operated.

### Wireless Dual Band Support (Option)

Provides a stable wireless network environment by supporting wireless dual band (2.4 GHz / 5 GHz).



\* Dual Band may be restricted in some countries and regions.

### Other Functions

- Quick Start
- DICOM® Simulation Mode\*<sup>7</sup>
- 16W Internal Speaker
- MHL connectivity
- Smart Device Control & Monitoring
- Moderator Control Mode
- PIN lock
- Key lock

\*<sup>7</sup> This projector is not a medical device and is not compliant to the DICOM standard, and neither the projector nor this function should be used for medical diagnosis.