# DLP Projector LV-WX300/LV-X300/LV-S300

### ■ Outline of product

This device is a series of DLP portable projectors each featuring a brightness of 3000 lumens in a compact body that weighs only 2.5kg. User can select a projector from three different types depending on the image resolution and usage applications.

■ Product specifications (Specifications and appearance may change without prior notice for reasons such as manufacturing and changes of components.)

Used power	AC100 - 240 V 50Hz/60Hz		
Consumed power	Standard: 330W / Quiet: 275W, Standby: 3.0W / Standby (LAN-off): 0.5W		
Picture element	<lv-wx300> 0.65-type DMD device (aspect ratio 16:10)</lv-wx300>		
	Number of pixels: 1024000 pixels (1280 dots x 800 dots, WXGA)		
	<lv-x300> 0.55-type DMD device (aspect ratio 4:3)</lv-x300>		
	Number of pixels: 786432 pixels (1024 dots x 768 dots, XGA)		
	<lv-s300> 0.55-type DMD device (aspect ratio 4:3)</lv-s300>		
	Number of pixels: 480000 pixels (800 dots x 600 dots, SVGA)		
Projection lens	Varifocal lens		
	<lv-wx300> F value: 2.56 – 2.8, Focus distance: 21.0 – 23.1mm, Projection distance range</lv-wx300>		
	(W/T): 1.9 – 4.8m/2.1 – 4.2m, 100-inch projection distance: 3.2 – 3.5m, Zoom ratio: 1.1 x (manual),		
	Focus: manual		
	<- State   Control of the control		
	range (W/T): 2.3 – 5.7m/2.5 – 5.0m, 100-inch projection distance: 3.8 – 4.2m, Zoom ratio: 1.1 x		
	(manual), Focus: manual		
Light source lamp	Ultra-high pressure mercury lamp (Output Standard : 190W/Quiet:160W; Quiet figure is a calculated		
Light source lamp			
Drainated image size	value thus not guaranteed)		
Projected image size	<lv-wx300>W: 60-inch - 150-inch (1.9 - 4.8 m)/T: 60-inch - 120-inch (2.1-4.2 m)</lv-wx300>		
	<lv-x300><lv-s300> W: 60-inch – 150-inch (2.3 – 5.7 m)/T: 60-inch – 120-inch (2.5 – 5.0 m)</lv-s300></lv-x300>		
Light output*	Standard: 3000lm/Quiet: 2100lm (Quiet figure is a calculated value thus not guaranteed)		
Peripheral contrast*	<lv-wx300> 75%; <lv-x300> <lv-s300> 80%</lv-s300></lv-x300></lv-wx300>		
Contrast ratio*	2300:1		
Input signal resolution	UXGA to VGA		
Corresponding	See List of supported signals		
scanning frequency			
Lens shift	<lv-wx300> 50%, fixed; <lv-x300><lv-s300> 60%, fixed</lv-s300></lv-x300></lv-wx300>		
Keystone correction range	V ±30°		
Projection method	Floor-mounted front		
Video signal	<lv-wx300> <lv-x300></lv-x300></lv-wx300>		
	Analog PC input: UXGA/SXGA+/WXGA+/FWXGA/WXGA/SXGA/XGA/SVGA/VGA/MAC		
	HDMI input:-		
	When connecting with a PC: UXGA/SXGA+/ WXGA+/FWXGA/WXGA/SXGA/XGA/SVGA/VGA		
	When connecting with an AV equipment: 1080p/1080i/720p/576p/480p		
	Component video input: 1080p/1080i/720p/576p/576i/480p/480i		
	Video input (Composite, S-Video): NTSC/PAL/SECAM/NTSC4.43/PAL-M/PAL-N/PAL-60		
1	<a href="https://www.nc-numbers.com/schemes/"></a> <a href="https://www.nc-numbers.com/schemes/"><a href="https://www.nc-numbers.com/schemes/">https://www.nc-numbers.com/schemes/<a href="https://www.nc-numbers.com/schemes/"> https://www.nc-numbers.com/schemes/<a href="https://www.nc-numbers.com/schemes/">https://www.nc-numbers.com/schemes/<a href="https://www.nc-numbers.com/schemes/">https://www.nc-numbers.com/schemes/</a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>		

\* This indicates the overall average value of the product at the time of shipping, and it is listed in accordance with data projectors JIS X 6911:2003. The measurement method and measurement conditions are based on the Annex. Moldod plactic

Capillet	Molded plastic		
External dimensions	Width 282mm Height 114.5mm (with legs at minimum height) Depth267.5mm (including lens)		
Weight	About 2.5kg		
Environmental conditions	Use environment: 0°C - 40°C		
Supplied remote control	Power supply used: DC 3V (requires CR2025)		
	Operation distance (for wireless): About 8m (receiver front ±30°)		

<sup>\*</sup> This is the average. It may vary for each product.

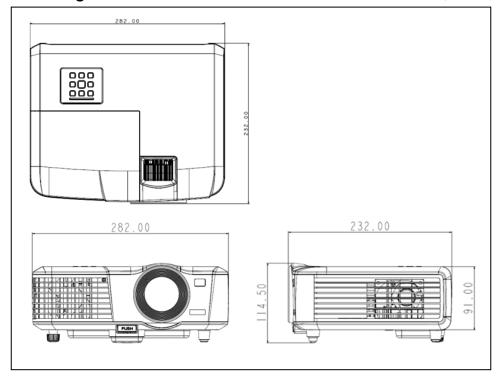
Accessories

•Power cord ... 1 •Computer connection cable (Mini Dsub 15-pin) ... 1
•Wireless remote connector (LV-RC08) ... 1 •CR2025 battery ... 1
•Wireless remote connector (LV-RC08) Accessories

Replacement products •Replacement-use lamp [Recommended replacement time\*; Standard 5000H/Quiet 6000H] (LV-LP37) \* When the lamp has a 50% survival rate and can maintain a 50% light retention ratio.

# **■** External dimensions diagram

(Unit: mm)

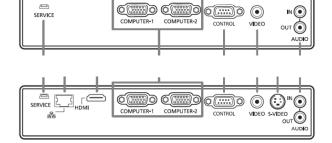


(Note) The above diagrams are not drawn to scale.



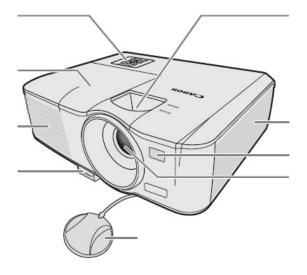
LV-S300

LV-WX300 LV-X300

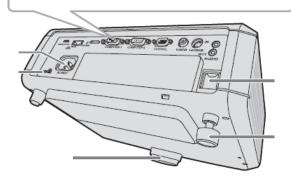


	SERVICE (For service personnel)
	LAN (RJ-45): Network connection (100BASE-TX / 10BASE-T)
	HDMI input
	PC input x2: Analog PC input/Component input
	CONTROL: RS232C connection
	VIDEO input
	S-VIDEO input
	AUDIO IN
1	L AUDIO OUT

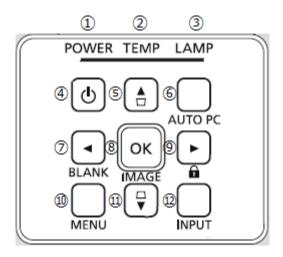
### ■ Names



Connectors (refer to page 2)



# **Top Controls**



Top controls and indicators

Lamp cover

**Exhaust vents** 

Angle adjusting button

Focus ring/Zoom ring

Front infrared remote receiver

Projection lens

Air intake vents

Lens cover

Power cord connector

Kensington security slot

Adjustable feet (front)

Security bar

Adjustable feet (rear)

# **Top Control buttons/indicators**

POWER indicator

TEMP (temperature indicator

LAMP indicator

POWER button

Keystone adjustment (top)

**AUTO PC button** 

To LEFT/BLANK button

OK/IMAGE button

To RIGHT/KEY LOCK button

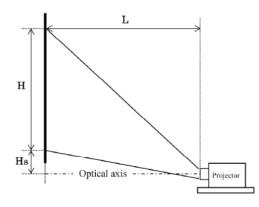
MENU button

Keystone adjustment (bottom)

**INPUT** button

### Throw distance and image size

Image size can be adjusted manually within a zoom range of 1.1x using the zoom ring. The projector is equipped with a varifocal lens, so adjusting the zoom will also change the focus. When focus is



adjusted, the image size will change slightly; thus, the user should adjust zoom and focus alternately in order to achieve the desired image size.

"L" in the diagram (left) represents throw distance. The same image size can be projected with the projector positioned anywhere between the shortest distance L(W) and the longest distance L(T). Here (W) indicates wide, and (T) stands for tele.

H is the vertical height of the image, and Hs indicates the distance between the optical axis of the lens and the bottom edge of the image.

For this projector the relationship between H and Hs is fixed:

LV-WX300 10:0 (Hs = 0)

LV-X300/LV-S300 10:1 (Hs = H/10)

Optimum displayable images sizes are between 60 to 150 inches.

Image size and throw distance are as indicated below.

(Unit: m)

Image size (16:10)			Projection	distance
Туре	Width	Height	Wide lens	Tele lens
60	1.3	0.8	1.9	2.1
70	1.5	0.9	2.3	2.5
80	1.7	1.1	2.6	2.8
90	1.9	1.2	2.9	3.2
100	2.2	1.3	3.2	3.5
110	2.4	1.5	3.5	3.9
120	2.6	1.6	3.9	4.3
130	2.8	1.8	4.2	-
140	3.0	1.9	4.5	-
150	3.2	2.0	4.8	-

Image size (4:3)			Throw o	distance
Туре	Width	Height	Wide lens	Tele lens
60	1.2	0.9	2.3	2.5
70	1.4	1.1	2.6	2.9
80	1.6	1.2	3.0	3.3
90	1.8	1.4	3.4	3.7
100	2.0	1.5	3.8	4.2
110	2.2	1.7	4.2	4.6
120	2.4	1.8	4.5	5.0
130	2.6	2.0	4.9	-
140	2.8	2.1	5.3	-
150	3.0	2.3	5.7	-

Figures in the above chart are approximate.

### ■Adjustable feet

#### Diagram 1

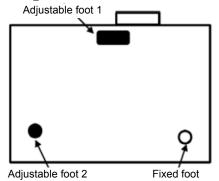


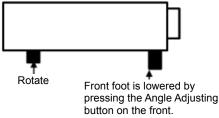
Diagram 1 shows the projector base, featuring two adjustable feet. Adjustable foot 1, located below the lens, is used to adjust the angle of the projector by raising or lowering the front. Adjustable foot 2 is used to adjust left/right tilt.

Diagram 2 is a side view of the projector.

Pressing a release button located on the front of the projector will cause it to lower with its own weight. Adjustable foot 2 is a screw-type mechanism, which can be adjusted by rotating the foot.

The projection angle can be adjusted up to 6.0 degrees with adjustable foot 1.







# ■ List of supported signals

The video signals that can be input in this product are described in the table below.

# • Digital PC

Signal format	Horizontal frequency [KHz]	Refresh Rate [Hz]	Clock [MHz]
720x400	31.469	70.087	28.3221
	31.469	59.940	25.175
	37.861	72.809	31.500
640x480	37.500	75.000	31.500
	43.269	85.008	36.000
	37.879	60.317	40.000
	48.077	72.188	50.000
800x600	46.875	75.000	49.500
	53.674	85.061	56.250
	77.425	119.854	83.000
	48.363	60.004	65.000
	56.476	70.069	75.000
1024x768	60.023	75.029	78.750
	68.667	84.997	94.500
	97.551	119.989	115.500
1152x864	67.500	75.00	108.000
1280x720	45.000	60	74.250
1200x720	90.000	120	148.500
1280x768	47.396	60	68.25
12003700	47.776	59.870	79.5
	49.702	59.810	83.500
1280x800	62.795	74.934	106.500
1200,000	71.554	84.880	122.500
	101.563	119.909	146.25
	63.981	60.020	108.000
1280x1024	79.976	75.025	135.000
	91.146	85.024	157.500
1280x960	85.938	85.002	148.500
1360x768	47.712	60.015	85.500
1440x900	55.469	60	88.75
1440000	55.935	59.887	106.500
1400x1050	65.317	59.978	121.750
1600x1200	75.000	60.000	162.000
1680x1050	64.674	59.883	119.000
10000 1000	65.290	59.954	146.250
1366x768	47.712	59.790	85.500
1600x900	60.000	60.000	108.000

### • Digital video

Signal format	Horizontal frequency [KHz]	Vertical frequency [Hz]	Dot clock frequency [MHz]
480i	59.94	15.73	27
480p	59.94	31.47	27
576i	50	15.63	27
576p	50	31.25	27
700n	50	37.5	74.25
720p	60	45.00	74.25
1000;	50	28.13	74.25
1080i	60	33.75	74.25
	24	27	74.25
	25	28.13	74.25
1080P	30	33.75	74.25
	50	56.25	148.5
	60	67.5	148.5

# • Analog PC input

Analog PC Ir	iput	T	
Signal format	Horizontal frequency [KHz]	Refresh Rate [Hz]	Clock [MHz]
720x400	31.469	70.087	28.3221
	31.469	59.940	25.175
640x480	37.861	72.809	31.500
0402400	37.500	75.000	31.500
	43.269	85.008	36.000
	37.879	60.317	40.000
	48.077	72.188	50.000
800x600	46.875	75.000	49.500
	53.674	85.061	56.250
	77.425	119.854	83.000
	48.363	60.004	65.000
	56.476	70.069	75.000
1024x768	60.023	75.029	78.750
	68.667	84.997	94.500
	97.551	119.989	115.500
1152x864	67.500	75.00	108.000
1000,700	45.000	60	74.250
1280x720	90.000	120	148.500
1280x768	47.396	60	68.25
1200x700	47.776	59.870	79.5
	49.702	59.810	83.500
1280x800	62.795	74.934	106.500
1200000	71.554	84.880	122.500
	101.563	119.909	146.25
	63.981	60.020	108.000
1280x1024	79.976	75.025	135.000
	91.146	85.024	157.500
1280x960	85.938	85.002	148.500
1360x768	47.712	60.015	85.500
1440x900	55.469	60	88.75
17708300	55.935	59.887	106.500
1400X1050	65.317	59.978	121.750
1600x1200	75.000	60.000	162.000
1680x1050	64.674	59.883	119.000
10000 1000	65.290	59.954	146.250
1366x768	47.712	59.790	85.500
1600x900	60.000	60.000	108.000

# • Component video input

Signal format	Horizontal frequency [KHz]	Vertical frequency [Hz]	Dot clock frequency [MHz]
480i	59.940	15.734	13.500
480p	59.940	31.469	27.000
576i	50.000	15.625	13.500
576p	50.000	31.250	27.000
720/50p	50.000	37.500	74.250
720/60p	60.000	45.000	74.250
1080/50i	50.000	28.125	74.250
1080/60i	60.000	33.750	74.250
1080/50p	50.000	56.250	148.500
1080/60p	60.000	67.500	148.500

### •S-video/video input

Signal format	Horizontal frequency [KHz]	Vertical frequency [Hz]	Sub-Carrier frequency IMHz1
NTSC	60	15.73	3.58
PAL	50	15.63	4.43
SECAM	50	15.63	4.25 or 4.41
PAL-M	60	15.73	3.58
PAL-N	50	15.63	3.58
PAL-60	60	15.73	4.43
NTSC4.43	60	15.73	4.43

#### **■** Accessories

Supplied	Projector Remote Controller LV-RC08	Power source: DC 3.0V (uses CR2025 battery) Operating range: Distance of approx. 8 m from the projector; angle of ±30° in any direction from directly in front of the infrared remote receiver.
	Computer Cable	Mini Dsub15-MiniDsub15 Used to connect the projector to a PC for transferring analog PC signals.
Options	Projector Remote Controller LV-RC08	Same as the supplied accessory.
	Soft Carrying Case LV-SC01	Soft carrying care for the LV-WX300, LV-X300, LV-S300, LV-WX300ST, and LV-X300ST models
Replacement Parts	Replacement Lamp LV-LP37	Ultra high-pressure mercury lamp for the LV-X300 and LV-S300 models Recommended replacement time*1: 5000H/6000H (Lamp mode: Normal/Eco)
	Replacement Lamp LV-LP39	Ultra high-pressure mercury lamp for the LV-WX300 model Recommended replacement time*1: 5000H/6000H (Lamp mode: Normal/Eco)

<sup>\*1:</sup> When the lamp has a 50% survival rate and can maintain a 50% light retention ratio.

### ■ Precautions when installing/using

High wattage lamps are used in the projector, and it becomes very hot. Take care as follows.

- (1) This projector produces intense light from the projection lens. Do not stare directly into the lens, otherwise damage to eyes could result.
- (2) Do not set anything on top of the projector. Also do not project with projectors stacked directly on top of each other.
- (3) Do not place any object in front of the lens while the projector is in use as focused light projected to an object for a prolonged time may result in a fire.
- (4) Do not block the intake and exhaust vents of the projector. Also, install the projector so that the intake and exhaust vents are not subjected directly to warm air and cold air of air conditioning.
- (5) The projector uses high-pressure mercury lamp for its light source, which may deteriorate or reduce luminance owing to the characteristics and extensive use of the mercury lamp. Prolonged usage may also lead to breakage of the lamp. In such instances, immediately replace the lamp to a new lamp. Contact a local dealer for service and replacement of the lamp; such maintenance should be conducted at a service center by a qualified personnel.
- (6) When operating the projector inserted in a box, ensure that the ambient temperature within the box during operation is within the range of 0°C to 40°C. Also, do not block the intake and exhaust vents. Even when the ambient temperature is 40°C or lower, the protection circuit of the projector may function and shut down the projector due to internal retention of the exhaust heat. Sufficiently consider the ambient temperature environment when installing the projector.
- (7) Set the Fan Control mode (High altitude mode) to ON when using the projector in high altitudes (1,500 meters or move above sea level) where the atmospheric pressure is low.