Specifications 0.67" DLP® chip x1, aspect ratio 16:10 2.304.000 pixels (1.920 horizontal x 1.200 vertical) Motorized (V, H) (except for ultra short throw fixed lens FL-920/FL-900) Lens shift 50 - 600 inch (100 - 350 inch for ultra short throw fixed lens FL-920/FL-900) Light output (Brightness) 8.000lm 15 - 91kHz scanning frequency fini D-sub 15-pin connector x 1, 5BNC connector x HDMI connector x 2 (HDCP compliant) DVI-D IN BNC connector x 1 / BNC connector x 1 SDI IN / OUT HDBaseT CONTROL IN (RS-2320 D-sub 9-pin connector x 1 REMOTE CONTROL IN AC100 - 130V : 950W (100% lighting output), 885W (Normal mode) AC200 - 240V: 900W (100% lighting output), 845W (Normal mode) Standby mode power consumption Less than 0.5W at Standby Power Off *1 00mm x 216mm x 576mm (19.7" x 8.5" x 22.7") (Excluding lens and protruding parts) RS-232C adapter cable (cross), Wired remote cable, User's Manual (Book, CD) Optional parts HAS-L9750 (Bracket for fixing mount) HAS-104S (Slim adapter for fixing mount) HAS-204L (Standard adapter for fixing mount) ML-904 (Middle throw lens) HAS-304H (Long adapter for fixing mount) UL-906 (Ultra long throw lens FI -920 (Ultra short throw fixed lens FI -900 with support metal)

Dimensions **I**

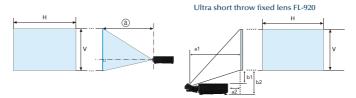


Environment

- ► Compliance with EU Directive RoHS*
- ▶ Power saving mode (Standby Power OFF) engaged during standby
- ▶ No use of mercury lamp
- 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

Projection Distance



H x V: Screen size

a: Projection distance

(from the projector's front panel to screen) (±10%)

- a1: Reflecting mirror surface to screen a2: Projector end to screen
- b1: Projector top to screen edge (closer edge to projector)
- b2: Projector bottom to screen edge (closer edge to projector)

1,920 x 1,200 (Aspect ratio 16:10)

	Item		meter											
Screen size Type H(m) V(m) 80 1.7 1.1		USL-901		SL-902		SD-903		ML-904		LL-905		UL-906		
Туре	H(m)	V(m)	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
80	1.7	1.1	1.4	1.7	2.0	3.0	2.8	4.3	4.2	6.4	6.0	9.8	9.6	15.3
100	2.2	1.3	1.7	2.1	2.5	3.8	3.5	5.3	5.2	7.9	7.6	12.2	12.0	19.0
120	2.6	1.6	2.0	2.5	3.0	4.5	4.3	6.4	6.3	9.5	9.1	14.7	14.3	22.8
150	3.2	2.0	2.5	3.2	3.8	5.7	5.3	8.0	7.8	11.9	11.4	18.4	17.9	28.4
300	6.5	4.0	5.1	6.3	7.6	11.3	10.7	16.0	15.7	23.9	22.9	36.9	35.5	56.5
500	10.8	6.7	8.4	10.5	12.7	18.9	17.8	26.6	26.1	39.8	38.2	61.5	59.0	94.0
	Type 80 100 120 150 300	Screen si. Type H _(m) 80 1.7 100 2.2 120 2.6 150 3.2 300 6.5	Screen size Type H(m) V(m) 80 1.7 1.1 100 2.2 1.3 120 2.6 1.6 150 3.2 2.0 300 6.5 4.0	Screen size USL Type H(m) V(m) min. 80 1.7 1.1 1.4 100 2.2 1.3 1.7 120 2.6 1.6 2.0 150 3.2 2.0 2.5 300 6.5 4.0 5.1	Screen size USL-901 Type H(m) V(m) min. max. 80 1.7 1.1 1.4 1.7 100 2.2 1.3 1.7 2.1 120 2.6 1.6 2.0 2.5 150 3.2 2.0 2.5 32 300 6.5 4.0 5.1 63	Screen size USL-901 SL- Type H(m) V(m) min. max. min. 80 1.7 1.1 1.4 1.7 2.0 100 2.2 1.3 1.7 2.1 2.5 120 2.6 1.6 2.0 2.5 3.0 150 3.2 2.0 2.5 3.2 3.8 300 6.5 4.0 5.1 6.3 7.6	Screen size USL-901 SL-902 Type H(m) V(m) min. max. min. max. 80 1.7 1.1 1.4 1.7 2.0 3.0 100 2.2 1.3 1.7 2.1 2.5 3.8 120 2.6 1.6 2.0 2.5 3.0 4.5 150 3.2 2.0 2.5 3.2 3.8 5.7 300 6.5 4.0 5.1 6.3 7.6 11.3	Screen size USL-901 SL-902 SD-7ype H(m) V(m) min. max. min. a min. max. min. a </td <td>Screen size USL-901 SL-902 SD-903 Type H(m) V(m) min. max. max. min. max. max. 1.0 2.8 4.3 1.0</td> <td>Screen size USL-901 SL-902 SD-903 ML-1 Type H(m) V(m) min. max. min. min. max. min. max. min. max. min. min. max. min. min. max. min. min.</td> <td>Screen size USL-901 SL-902 SD-903 ML-904 Type H(m) V(m) min. max. d.4 6.4 6.4 6.4 6.4 6.4 6.4 6.3 9.5 110 120 2.6 1.6 2.0 2.5 3.0 4.5 4.3 6.4 6.3 9.5 150 3.2 2.0 2.5 3.2 3.8 5.7 5.3 8.0 7.8 11.9 300 6.5 4.0 5.1 6.3 7.6 11.3 10.7 16.0 15.7 23.9</td> <td>Screen size USL-901 SL-902 SD-903 ML-904 LL-91 Type H(m) V(m) min. max min. min. max min. max min. min. max min. min</td> <td>Scren size USL-901 SL-902 SD-903 ML-904 LL-905 Type H(m) V(m) min. max. min. max.<td>Screen size USL-901 SL-902 SD-903 ML-904 LL-905 UL-7ppe Type H(m) V(m) min. max. min. min. max. min. min</td></td>	Screen size USL-901 SL-902 SD-903 Type H(m) V(m) min. max. max. min. max. max. 1.0 2.8 4.3 1.0	Screen size USL-901 SL-902 SD-903 ML-1 Type H(m) V(m) min. max. min. min. max. min. max. min. max. min. min. max. min. min. max. min. min.	Screen size USL-901 SL-902 SD-903 ML-904 Type H(m) V(m) min. max. d.4 6.4 6.4 6.4 6.4 6.4 6.4 6.3 9.5 110 120 2.6 1.6 2.0 2.5 3.0 4.5 4.3 6.4 6.3 9.5 150 3.2 2.0 2.5 3.2 3.8 5.7 5.3 8.0 7.8 11.9 300 6.5 4.0 5.1 6.3 7.6 11.3 10.7 16.0 15.7 23.9	Screen size USL-901 SL-902 SD-903 ML-904 LL-91 Type H(m) V(m) min. max min. min. max min. max min. min. max min. min	Scren size USL-901 SL-902 SD-903 ML-904 LL-905 Type H(m) V(m) min. max. min. max. <td>Screen size USL-901 SL-902 SD-903 ML-904 LL-905 UL-7ppe Type H(m) V(m) min. max. min. min. max. min. min</td>	Screen size USL-901 SL-902 SD-903 ML-904 LL-905 UL-7ppe Type H(m) V(m) min. max. min. min. max. min. min

	Item				inch										
Pro	Screen size		USL-901 SL-		-902 SD-903		903	ML-904		LL-905		UL-906			
Projection	Туре	H(in.)	V(in.)	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
	80	68	42	54	67	80	119	111	167	164	250	238	385	380	601
distance	100	85	53	67	84	100	149	140	209	205	313	298	482	472	749
ance	120	102	64	80	100	120	179	168	251	246	376	359	579	565	896
(a)	150	127	79	100	125	150	223	210	314	308	469	449	724	703	1118
	300	254	159	200	248	300	446	420	629	617	939	902	1452	1397	2225
	500	424	265	332	413	501	744	700	1048	1029	1566	1505	2422	2322	3701

		Item		meter								
Pro	Sc	reen si	ze	FL-920								
Projection	Туре	H(m)	V(m)	a1	a2	b1	b2					
B.	100	2.2	1.3	0.817	-0.022	0.376	0.592					
dist	120	2.6	1.6	0.969	0.130	0.464	0.680					
distance	150	3.2	2.0	1.196	0.357	0.595	0.811					
(a)	300	6.5	4.0	2.331	1.492	1.250	1.466					
ľ	350	7.5	4.7	2.709	1.870	1.469	1.685					

Г			Item		inch						
	Po	Sc	reen si	ze	FL-920						
2	Projection	Туре	H(in.)	V(in.)	a1	a2	b1	b2			
		100	85	53	32	-1	15	23			
1 2	dist	120	102	64	38	5	18	27			
18	distance	150	127	79	47	14	23	32			
	a)	300	254	159	92	59	49	58			
		350	297	185	107	74	58	66			

Terminals



-Design and specifications are subject to change without notice

- . The projected images and comparison photos in this catalog are simulations.
- · 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, DLP® chip, etc.) and cooling fans have limited service lives. They must be repaired or replaced if they are used for a long period of time.
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- Crestron Connected and the Crestron Connected logo are registered trademarks of Crestron Electronics
- DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.
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- HDBaseT [™] and the HDBaseT Alliance logo are trademarks of the HDBaseT Alliance
- · All other trademarks are the properties of their respective owners
- This projector is a CLASS 1 LASER PRODUCT (IEC/EN 60825-1:2014). (CLASS 3R LASER PRODUCT (IEC/EN 60825-1:2007) for the U.S.A. and Canada)

HITACHI

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^{*1} Can't operate the projector via the LAN and the RS-232C when projector is in standby mode

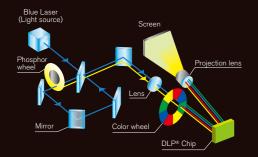
High Reliability and Stability

Long life 20,000 hours¹ Laser light source

Light source combined Blue laser diodes and Phosphor can achieve 8,000lm. The projection image is bright, clear and vivid color.

Since lamp exchange is unnecessary, maintenance cost is reduced. Furthermore, you do not need to worry about lamp life, and it is optimal for digital signage purposes that require long hours of continuous projection. Because the product does not use mercury lamps, it is highly eco-friendly.

1 For laser light source. Not a guaranteed value.



Wide range of Color Reproduction

The color reproduction range is wide compared to lamp light projectors and projects brilliantly colored images.

Dust Resistant Optical Engine

Reduces the invasion of dust and other particles in the air that decreases the brightness when they get attached to the optical parts. Reduces the decrease in brightness due to dust, resulting in a long lasting bright, clear, and vivid colored picture.

Eliminates the intake filter and filter maintenance.

Laser Power Level Control

Power of laser light source is controllable by every 1% step*2. It allows the brightness of projection image fits in the luminance environment and can save the power consumption.

This feature helps you to adjust the similar brightness of projectors in such the side-by-side projection and the edge blending applications.

*2 The adjustment range is 20~100% at Custom mode.



Tunes brightness of image accrding to surrounding environme



Matches brightness of image projected side by side

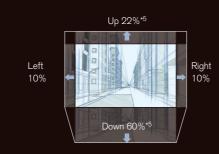
Interchangeable Lens Options

7 option lenses including ultra short throw fixed lens

	FL-920	USL-901	SL-902	SD-903	ML-904	LL-905	UL-906
Zoom ratio	1.0	1.3	1.5	1.5	1.5	1.6	1.6
Throw ratio	0.38	0.8-1.0	1.1-1.7	1.6-2.4	2.4-3.6	3.5-5.6	5.5-8.8
Projection distance(m) *3 for 100" screen	0.0	1.7-2.1	2.5-3.8	3.5-5.3	5.2-7.9	7.6-12.2	12.0-19.0
Weight (kg)	3.1*4	1.8	2.0	1.3	1.8	1.9	1.8
Lens shift Vertical Horizontal	82.5% 0%	-22 ~ 50% ±10%	-22~60% ±10%	-22~60% ±10%	-22~60% ±10%	-22~60% ±10%	-22 ~ 60% ±10%

- *3 Screen to projector's screen-side surface. Secure a clearance of 50cm or greater between the exhaust vents and walls.
- *4 Excluding the FL-920 support metal.

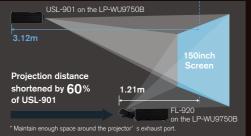
Lens Shift



*5 At ceiling mount position with the lens other than FL-920 or USL-901 attached.

Ultra Short Throw fixed lens FL-920 features





All Glass lens

FL-920 is equipped with all glass lenses that reduce the blurring that occurs under changes between high and low temperature.

Ceiling mount HAS-404U

Ceiling mount bracket with 6-axis adjustment mechanism. Adopting a jack system, perform elevation adjustment easily.





LP-WU9750B WUXGA 8 000lm

LP-WU9750B WUXGA 8,000lm Lens is sold separately.

With a stable projection performance and high installability, the laser projector is optimal for various purposes.

Advanced Installability

360° Projection

This projector provides great installation flexibility as it can be installed at any angle*6.



'6 The life of optical parts may shorten if the projector is installed with the lens facing downward or the IO connector side upward.

Edge Blending

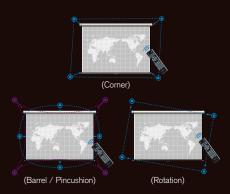


This projector is equipped with the Edge Blending function that achieves further seamless projection of one image using multiple projectors.



Warping (Geometry Correction)

Equipped warping with which the position of the four corners, four sides and rotation of a projected image can be adjusted.



Digital Connectivity

Equipped with an SDI input - the standard in the broadcast industry. 3G SDI can transfer 1080P signals via a coaxial cable. Projectors provide 5 digital inputs: SDI, HDBaseT, HDMI1/2, and DVI-D.







DICOM® Simulation Mode

This mode is ideal for viewing grayscale medical images, such as X-rays, for training and educational purposes.

This projector is not a medical device and is not compliant with the DICOM® standard, and neither the projector nor the DICOM® Simulation Mode should be used for medical diagnosis.
Comparison photos are simulations.





DICOM® Simulation Mo

Other Useful Features

COLOR MANAGEMENT, Remote control with ID function