New PCL-LT8000 Series
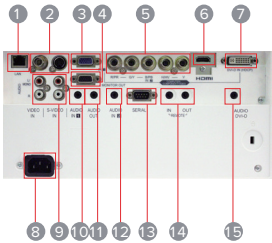
Connection Terminals
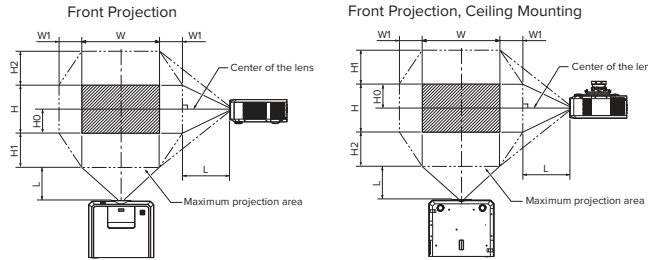
1. LAN (RJ-45)
2. Video / S-Video
3. PC/Component video in-1
4. Monitor out
5. PC/Component video in-2
6. HDMI
7. DVI-D in (HDCP)
8. Power in (3-pin with earth terminal)
9. Audio in [RCA (L/R)]
10. Audio in-1
11. Audio out
12. Audio in-2
13. Serial RS-232C (I/O)
14. Remote in/out
15. Audio DVI-D

* Photo is specifically for PCL-LT8000X / PCL-LT8000W

Screen Size and Projection Distance

Refer to the following table to determine the screen size and projection distance.

Front Projection
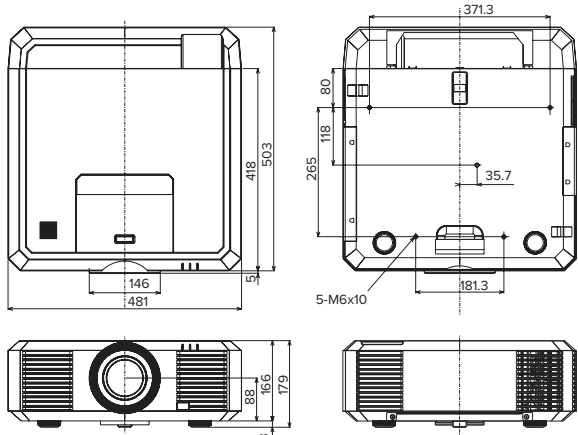
Front Projection, Ceiling Mounting

W1 | W | W1
Center of the lens
Maximum projection area

Replacement Lenses

OL-XL7100SZ	OL-XL7100FR	OL-XL7100LZ	OL-XL7100TZ
Rear-projection Short -throw Fixed Lens (0.8)	Short-throw Zoom Lens (1.2 - 1.5)	Long-throw Zoom Lens (2.6 - 4.4)	Telescopic-throw Zoom Lens (4.3 - 7.3)

Specifications

Model	PCL-LT8000X	PCL-LT8000W	PCL-LT8000U
Display Technology	3 x 0.79" LCD	3 x 0.75" LCD	3 x 0.76" LCD
Resolution	XGA (1024 x 768)	WXGA (1280 x 800)	WUXGA (1920 x 1200)
Brightness	7100 ANSI lumens	6600 ANSI lumens	5600 ANSI lumens
Contrast Ratio	5000:1 (Iris On)		
Projection Lens	f = 24.0-43.2mm, F = 1.8-2.6		
Zoom / Focus	Powered Focus / Zoom (Zoom Ratio 1.8:1)		
Throw Ratio	100"@3.0m	100"@3.1m	100"@3.0m
Picture Size	40"- 300" (100" = 3.1m)		
Lamp Life	4,000 hours (Std) / 6,000 hours (Eco)		
Computer Compatibility	VGA, SVGA, XGA, SXGA, WXGA, UXGA, Mac		
Speaker	1 x 10W		
Video Compatibility	PAL, SECAM, NTSC 4.43,PAL-M, PAL-N, 480i, 480p, 576i, 576p, 720p, 1080p and 1080i		
Input	PC: 5 BNC x 1, HDMI x 1 PC Audio: Stereo mini jack, 3.5mm x 3, Video: BNC x 1, Video Audio in: RCA (L/R) x 2		PC: 5 BNC x 1, HDMI x 1, PC Audio: Stereo mini jack, 3.5mm x 3, Video: BNC x 1, Video Audio in: RCA (L/R) x 2, USB-A x 1 HDMI in MHL x 1
Output	RGB: mini D-sub 15-pin x 1 / Audio: Stereo mini jack (3.5mm x 1) / LAN		
Control	LAN (RJ-45): x 1 (projector control and display, * applied on PCL-LT8000U only), RS232 (in): D-sub 9-pin (male) x 1 (direct command is available), Wired remote (in): x 1 (3.5mm stereo mini jack), Wired remote (out): x 1 (3.5mm stereo mini jack)		
Dimensions (W × H × D)	48.0 x 18.0 x 42.0 cm (18.8" x 7.0" x 16.5")		
Weight	9.9kg (21.8Lbs)		
Power Supply	AC 100 - 240V, 50/60 Hz		
Other Features	1. 360° Lens Shift 2. Auto Ceiling/Keystone 3. Top Lamp Cover Replacement 4. Anti-Theft Bar & Lock 5. Side Filter Access	6. Compatiable with MHL* 7. Closed Caption 8. Corner Correction 9. Docs Viewer Via USB-A* 10. USB/LAN Display*	
Accessories	Standard lens, Power Cable, VGA Cable, Remote Control, Wireless Module (Optional)		

* Features are specifically for PCL-LT8000U. *Specifications are subject to change without prior notice.
* Lamp life specification is an estimate based on verification under proper conditions and is not the duration of the warranty. Lamp will shut-off automatically when usage reaches the specified estimated maximum lamp hours. Service life may vary widely depending on usage and operating environment and conditions, as well as users' adherence to the maintenance and leaning procedures provided in the user manual.
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All brand names and product names are trademarks, registered trademarks or trade names of their respective holders.

Dimensions (mm)

371.3 · 80 · 118 · 265 · 503 · 418 · 146 · 481 · 35.7 · 181.3 · 5-M6x10 · 88 · 166 · 179 · 13

* The lens focal point is the default set at the time of shipment from the factory.

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PCL-LT8000X

Screen (XGA 4:3)						Distance from Screen				Default Height Projected Image (HO)		Movable V Position from Default Position				Movable H Position from Default Position			
Diagonal Size		Width		Height		Shortest (Wide)		Longest (Tele)				Down		Up		Down		Up	
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm
40	102	32	81	24	61	46	1.2	85	2.1	-12	-30	14 ← 0 → 14		37 ← 0 → 37		10 ← 0 → 10		24 ← 0 → 24	
60	152	48	122	36	91	70	1.8	128	3.2	-18	-46	22 ← 0 → 22		55 ← 0 → 55		14 ← 0 → 14		37 ← 0 → 37	
80	203	64	163	48	122	94	2.4	171	4.3	-24	-61	29 ← 0 → 29		73 ← 0 → 73		19 ← 0 → 19		49 ← 0 → 49	
100	254	80	203	60	152	118	3.0	214	5.4	-30	-76	36 ← 0 → 36		91 ← 0 → 91		24 ← 0 → 24		61 ← 0 → 61	
150	381	120	305	90	229	177	4.5	322	8.2	-45	-114	54 ← 0 → 54		137 ← 0 → 137		36 ← 0 → 36		91 ← 0 → 91	
200	508	160	406	120	305	237	6.0	430	10.9	-60	-152	72 ← 0 → 72		183 ← 0 → 183		48 ← 0 → 48		122 ← 0 → 122	
250	635	200	508	150	381	297	7.5	538	13.7	-75	-191	90 ← 0 → 90		229 ← 0 → 229		60 ← 0 → 60		152 ← 0 → 152	
300	762	240	610	180	457	357	9.1	646	16.4	-90	-229	108 ← 0 → 108		274 ← 0 → 274		72 ← 0 → 72		183 ← 0 → 183	

PCL-LT8000W

Image (WXGA 16:10)						Distance from Screen				Default Height Projected Image (HO)		Movable V Position from Default Position				Movable H Position from Default Position			
Diagonal Size		Width		Height		Shortest (Wide)		Longest (Tele)				Down		Up		Left		Right	
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm
40	102	34	86	21	54	48	1.2	89	2.3	-11	-27	15 ← 0 → 15		38 ← 0 → 38		10 ← 0 → 10		26 ← 0 → 26	
60	152	51	129	32	81	73	1.9	134	3.4	-16	-40	22 ← 0 → 22		57 ← 0 → 57		15 ← 0 → 15		39 ← 0 → 39	
80	203	68	172	42	108	99	2.5	180	4.6	-21	-54	30 ← 0 → 30		75 ← 0 → 75		20 ← 0 → 20		52 ← 0 → 52	
100	254	85	215	53	135	124	3.1	225	5.7	-26	-67	37 ← 0 → 37		94 ← 0 → 94		25 ← 0 → 25		65 ← 0 → 65	
150	381	127	323	79	202	187	4.7	338	8.6	-40	-101	56 ← 0 → 56		141 ← 0 → 141		38 ← 0 → 38		97 ← 0 → 97	
200	508	170	431	106	269	249	6.3	452	11.5	-53	-135	74 ← 0 → 74		188 ← 0 → 188		51 ← 0 → 51		129 ← 0 → 129	
250	635	212	538	132	337	312	7.9	565	14.4	-66	-168	93 ← 0 → 93		236 ← 0 → 236		64 ← 0 → 64		162 ← 0 → 162	
300	762	254	646	159	404	375	9.5	679	17.2	-79	-202	111 ← 0 → 111		283 ← 0 → 283		76 ← 0 → 76		194 ← 0 → 194	

PCL-LT8000U

Image (WUXGA 16:10)						Distance from Screen				Default Height Projected Image (HO)		Movable V Position from Default Position				Movable H Position from Default Position			
Diagonal Size		Width		Height		Shortest (Wide)		Longest (Tele)				Down		Up		Left		Right	
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm
40	102	34	86	21	54	48	1.2	88	2.2	-11	-27	13 ← 0 → 13		32 ← 0 → 32		10 ← 0 → 10		26 ← 0 → 26	
60	152	51	129	32	81	73	1.8	133	3.4	-16	-40	19 ← 0 → 19		48 ← 0 → 48		15 ← 0 → 15		39 ← 0 → 39	
80	203	68	172	42	108	97	2.5	177	4.5	-21	-54	25 ← 0 → 25		65 ← 0 → 65		20 ← 0 → 20		52 ← 0 → 52	
100	254	85	215	53	135	122	3.1	222	5.6	-26	-67	32 ← 0 → 32		81 ← 0 → 81		25 ← 0 → 25		65 ← 0 → 65	
150	381	127	323	79	202	184	4.7	334	8.5	-40	-101	48 ← 0 → 48		121 ← 0 → 121		38 ← 0 → 38		97 ← 0 → 97	
200	508	170	431	106	269	246	6.3	446	11.3	-53	-135	64 ← 0 → 64		162 ← 0 → 162		51 ← 0 → 51		129 ← 0 → 129	
250	635	212	538	132	337	308	7.8	559	14.2	-66	-168	79 ← 0 → 79		202 ← 0 → 202		64 ← 0 → 64		162 ← 0 → 162	
300	762	254	646	159	404	371	9.4	671	17.0	-79	-202	95 ← 0 → 95		242 ← 0 → 242		76 ← 0 → 76		194 ← 0 → 194	

* The above figures are approximate and may vary from actual measurements.

MULTIMEDIA DATA/ VIDEO PROJECTOR

3LCD

FILTER STATUS POWER

Striking Images, Simple To Use
From Installation To Operation
Amazingly High Quality In Every Aspect

New

PCL-LT8000X
PCL-LT8000W
PCL-LT8000U

infoto
Own your audience.

Advanced, Multifunctional Projector –
Ideal for large meeting rooms and theater-like settings

The INFOTO 3LCD PCL-LT8000 serie projectors offers high levels of brightness and contrast, improved installation ease and eco-conscious features in consideration of the environment. Capable of ensuring clear, sharp large-screen presentations in large meeting rooms and theater-like settings, these user-friendly projectors are ideal for impactful, visual communications.

New
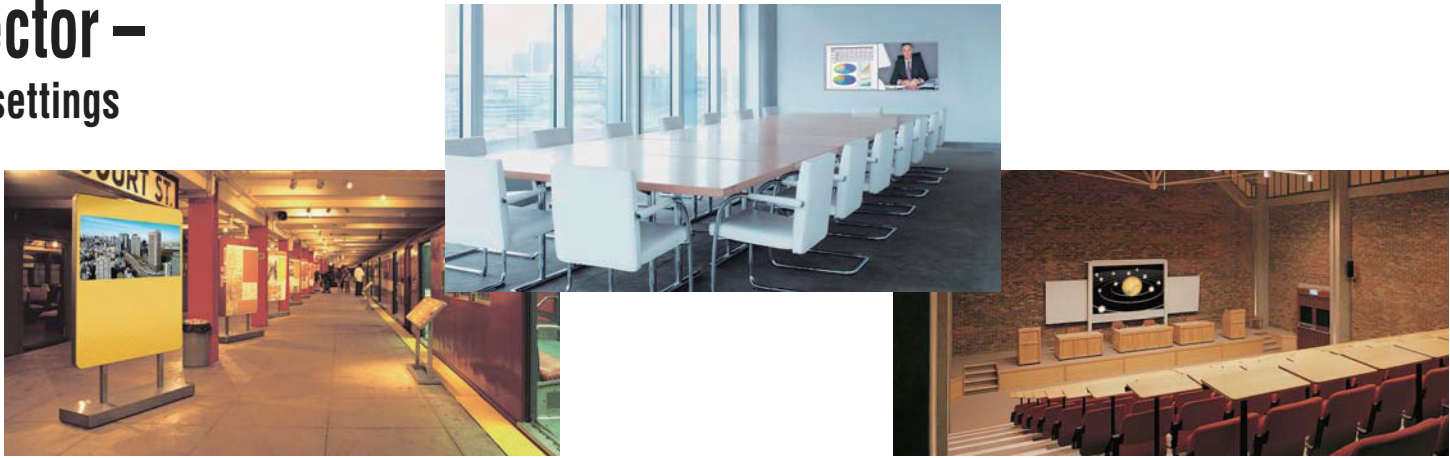
PCL-LT8000X
PCL-LT8000W
PCL-LT8000U

High Image Quality

Impressive 7100lm Brightness and 5000:1 High Contrast
The PCL8000 series reproduce vivid beutiful images using 7,100lms brightness at a high contrast ratio of 5000:1.Even in large meeting rooms and theater-like settings, its liquid-crystal projection system ensures clear, sharp presentation images every time.

High-performance Lens
This lens is comprised of 17 lenses in 13 clusters, including a high-performance ED (ultra-low dispersion) lens that is more efficient than regular glass lenses. Image resolution all the way to peripheral boarders is greatly improved.

ED Lens
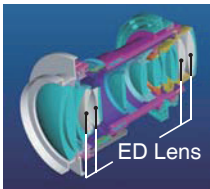
Natural Color Matrix (NCM)
In addition to conventional red (R), green (G) and blue (B) color gradations, the intermediate colors of yellow (Y), magenta (M) and cyan (C) can each be controlled independently. Accentuating specified colors according to need results in the reproduction of vivid color tones one step closer to natural.

Super Resolution
This innovative advanced image processing algotithm is a product of InFoto display. The technology analyzes blurred components of the original images, estimates the high-resolution data not provided in the original signal and corrects the image The result is the clear projection of images such as people's faces in fine detail.

Low-resolution image

Estimation of resolution compensation data

High resolution data that does not exist in the enlarged image is estimated by InFoto's proprietary image processing algorithm.

Enlargement

Compensation

Enlarged image (original)

Image processed by Super Resolution
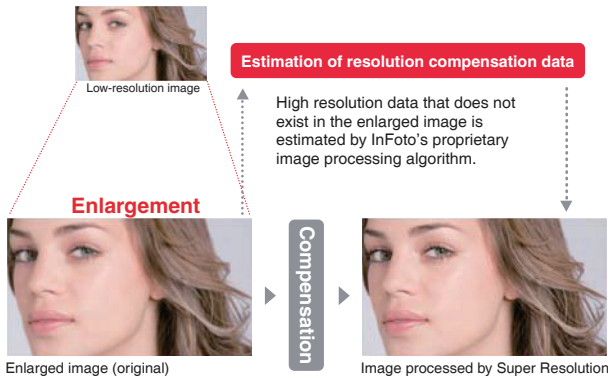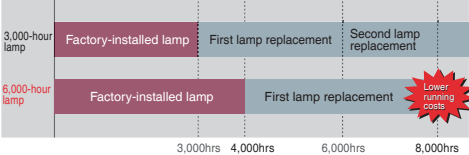
High Reliability

Inorganic Liquid-crystal Panel
An inorganic liquid-crystal panel is incorporated, increasing the service life compared to that of conventional organic liquid-crystal panels.

4000hr Long-life Lamp*
By optimizing temperature control design, the light-source lamp can be used for up to 4,000 hours. These improvements result in a remarkable reduction in operating cost.
*6000hr in ECO mode.

Lamp Life Comparison

3,000-hour lamp	Factory-installed lamp	First lamp replacement	Second lamp replacement
6,000-hour lamp	Factory-installed lamp	First lamp replacement	Lower running costs
	3,000hrs 4,000hrs	6,000hrs	8,000hrs

Lamp life specification is an estimate based on verification under proper conditions and is not the duration of the warranty. Lamp will shut-off automatically when usage reaches the specified estimated maximum lamp hours. Service life may vary widely depending on usage and operating environment and conditions, as well as users' adherence to the maintenance and cleaning procedures provided in the user manual.

Roll-up Filter
To help prevent dust from collecting on the liquid-crystal panel, a cartridge-type filter is added as standard equipment. It can be set so that the filter rolls automatically every 500, 750 or 1,000 hours, or winding can be done manually.

Additional Features

Network Connectivity
Projectors are equipped with a RJ-45 LAN terminal for remote operation. Additionally, when used with Crestron RoomView™, integrated control of up to 250 projectors including power on/off control, message display and confirmation of lamp service hours is possible. INFOTO PCL-LT8000 series are equipped with AMX Device Discovery for simplified device management and compatible with PJLink™.

PJLink™
CRESTRON
AMX DEVICE DISCOVERY

The trademarks of PJLink, Crestron and AMX are applied for registration or registered trademarks in Japan, the United State, and/or other countries and areas.

Installation Flexibility

Wide-area Lens Shift
The PCL8000 series features a wide-area lens adjustment range of ±60% vertically and ±30% horizontally, for greater installation freedom. The zoom, focus and lens shift functions are all powered operation.

±60%
±30%
Availability area for lens shift
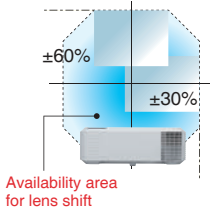
Variety of Optional Lenses
Choose from four different lenses to best match the projection distance. Compared to previous lenses, each lens covers a wider range of projection ratios.

Bayonet Mount
The bayonet mounting system incorporated offers one-touch lens removal, making it easy to change lenses after installation. Simply unscrew and remove the anti-drop cover, press down on the release button and turn the lens to remove it. Similarly, to install a lens, just insert it and turn.

Attractive Design
In consideration of ceiling-mounted installation and appearance in terms of room décor, a modern center-lens, white-based design is adopted and a terminal cover that hides cables has been added. The remote-control signal receiving section is now located on the backside of the projector, improving remote-control operation performance when mounted on the ceiling.

Geometric Corrections
• **Keystone Correction**
Trapezoidal distortion caused when the projector is not positioned directly in front of the screen is corrected in both vertical and horizontal directions.

• **Cornerstone Correction**
Pixel conversion is used to correct trapezoidal and diagonal distortion that causes oblique images, ensuring the proper aspect ratio.

screen
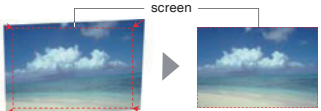
• **Curved-surface Projection Correction**
Projectors in the series are equipped with a distortion correction function that can be used when projecting images onto curved surfaces. Coordinates at the image's four corners are adjusted, enabling the projection angle to be adjusted at the time of angled or stacked projection. It is extremely handy for unique applications like projecting images onto special surfaces such as pillars at event sites.

360° Projection Capability
Images can be projected over a full 360° range along the vertical axis* including reproduction on the ceiling or floor.The application possibilities are limitless.
*Excluding use in high-altitude mode.

360°

• **ID-compatible Remote Control**
(set IDs for up to 63 projectors)
• Extended-distance Remote Control (wireless: 30m, wired: 100m)
• Lamp side replacement

Eco Friendly

4000hr Long-life Lamp*
A light-source lamp capable of operating up to 4,000 hours reduces both operating cost and labor required for replacing lamps.
*6000hr when used in ECO mode.

Stand-by Wattage under 0.5 Watt
Stand-by (low) mode power consumption is less than 0.5W, offering increased energy savings and further contributing to environmental preservation.

Auto Power Off
If no image signal is output for a predetermined period of time*, power is automatically turned off, realizing energy savings by reducing needless power consumption.
*Time preset by user

Paint-free Cabinet
As a measure to help protect the environment, eco-conscious paint-free cabinets are incorporated for PCL8000 series projectors.

Quiet 30dB Operation
Fan noise during projector operation can be distracting during a presentation or videoconference. The PCL 8000 series projectors operate at a significantly low noise level of only 30dB (i.e., in "low lamp" mode). As a result, presentations and conferences can be held without distracting projector noise in the background.

• 2-Screen mode
• Test pattern
• Direct power off
• Closed caption support
• High-altitude mode (1,500 to 2,700m)
• Virtual DICOM mode
• OSD menu multilanguage compatibility

*OSD Languages: English, German, French, Italian, Spanish, Dutch, Portugese, Simplified Chinese, Japanese, Korean, Russian, Arabic, Turkish, Finnish, Vietnamese, Thai, Afrikaans, Indonesian, Persian