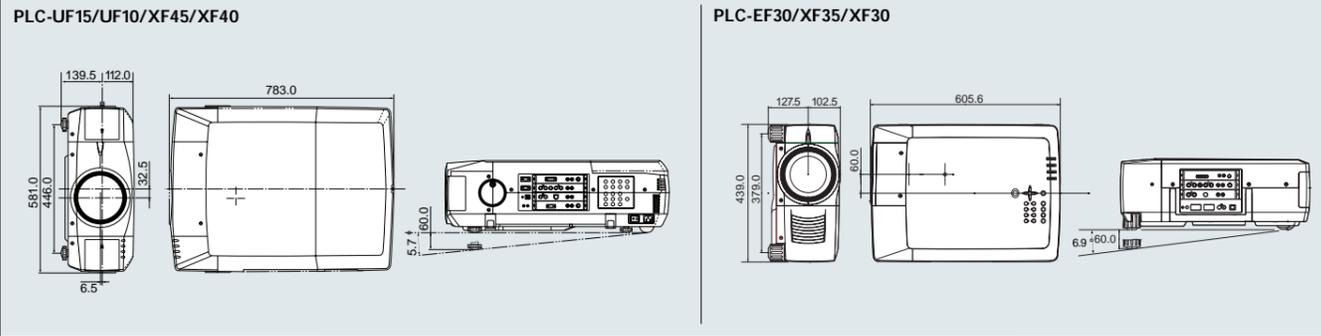# SANYO

Multimedia LCD Projector

PLC-UF15/UF10
PLC-XF45/XF40
PLC-EF30
PLC-XF35/XF30

Step up to the industry's highest performance

Professional Projector

Dimensions (unit : mm)

PLC-UF15/UF10/XF45/XF40

139.5 112.0
783.0
581.0 446.0
122.5
5.7°1 60.0
6.5

PLC-EF30/XF35/XF30

127.5 102.5
605.6
439.0 379.0
60.0
6.9° 60.0

Specifications

Model number			PLC-UF15	PLC-UF10	PLC-EF30	PLC-XF45	PLC-XF40	PLC-XF35	PLC-XF30
System			3-Color LCD Shutter Projection System						
Optics			Dichroic mirror separation/prism synthesis system						
LCD panel	Size		1.8-inch (4:3) x 3			1.8-inch (5:4) x 3	1.8-inch (4:3) x 3		
	Drive system		Polysilicon active matrix TFT						
	Number of pixels		5,760,000 pixels: 1,920,000 (1,600 x 1,200) x 3			3,932,160 pixels: 1,310,720 (1,280 x 1,024) x 3	2,359,296 pixels: 786,432 (1,024 x 768) x 3		
	Configuration		Stripe						
Lens			Optional						
Lamp			250 W UHP x 4	200 W UHP x 4	200 W UHP x 2	250 W UHP x 4	200 W UHP x 4	250 W UHP x 2	200 W UHP x 2
Projection size			40 to 600 inches (diagonal)						
Throw distance			Differs depending on installed lens						
Color reproduction			Full color (16.77 million colors)						
Brightness			7,700 ANSI lumens		5,800 ANSI lumens	10,000 ANSI lumens	7,700 ANSI lumens	6,500 ANSI lumens	5,200 ANSI lumens
Uniformity			90%						
Contrast ratio (full on/off)			1000:1	700:1		1100:1	700:1	1100:1	700:1
Noise			46 dBA		45 dBA	46 dBA		45 dBA	
Audio amplifier			3 W + 3 W, stereo						
Speaker			Ø8 cm x 2		5 x 9 cm x 2	Ø8 cm x 2		5 x 9 cm x 2	
Scanning frequency			H sync: 15 - 120 kHz, V sync: 50 - 120 Hz, Dot clock: 230 MHz						
Horizontal resolution	RGB		1,600 x 1,200 dots		1,280 x 1,024 dots (1,600 x 1,200 dots)*	1,024 x 768 dots (1,600 x 1,200 dots)*			
	Video		HDTV: 1,100 TV lines		HDTV: 800 TV lines				
Terminals	Computer, Video	Slot 1	DVI-I (digital/analog RGB), Audio (L, R), Control port						
		Slot 2	5 BNC (RGBHV, Y/Pb/Pr), Audio (L, R), Control port						
		Slot 3	Video, Y/C, S-Video connector, Audio (L, R)						
		Slot 4	Mini D-sub 15-pin (RGB), Audio (L, R), Control port		—	Mini D-sub 15-pin (RGB), Audio (L, R), Control port		—	
	Control, Misc.		Serial port (in/out, D-sub 9-pin) x 2, USB (type B) x 1, Wired remote control jack (stereo mini) x 1, Audio out (RCA) x 2						
Operating temperature			5 - 35ºC						
Power supply			AC 120 - 240 V, 50/60 Hz, Auto voltage	AC 100 - 240 V, 50/60 Hz, Auto voltage		AC 120 - 240 V, 50/60 Hz, Auto voltage	AC 100 - 240 V, 50/60 Hz, Auto voltage		
Power consumption			1,500 W (standby: 20 W)	1,150 W (standby: 13 W)	550 W (standby: 20 W)	1500 W (standby: 20 W)	1,150 W (standby: 13 W)	720 W (standby: 12 W)	550 W (standby: 13 W)
Dimensions (W x H x D)			581 x 251.5 x 783 mm		439 x 230 x 605.6 mm	581 x 251.5 x 783 mm		439 x 230 x 605.6 mm	
Net weight			37.0 kg (81.6 lbs.)	35.5 kg (78.2 lbs.)	20.5 kg (45.2 lbs.)	37.0 kg (81.6 lbs.)	35.5 kg (78.2 lbs.)	21.0 kg (46.3 lbs.)	20.5 kg (45.2 lbs.)
Standard accessories			AC power cord, Wireless/wired remote control unit (dry batteries x 2, wired cable supplied), Dust cover, Mouse control cable (PS/2, Mac, Serial), VGA cable, VGA/Mac adapter, DVI cable, DVI/D-sub (mini 15-pin) adapter, Owner s manual, Lens cover						

*Microsoft is a registered trademark of Microsoft Corporation. *VGA, XGA and PS/2 are registered trademarks of International Business Machines Corporation. *Macintosh is a registered trademark of Apple Computer, Inc. *All other brand or product names in this catalog are trademarks or registered trademarks of their respective holders.

Safety Precautions
• Do not install the LCD projector in areas exposed to water, humidity, dust, oil or smoke or in close proximity to heat sources. Make sure the heat vents are not blocked. Fire, electrical shock or unit malfunction may result if the above precautions are neglected. • Do not look through the lens while projecting as damage to the eyes could result. Take special care when children are close by. • Do not look at the laser beam coming out of the remote control unit or direct the laser beam toward a person. Direct contact with the laser beam may cause damage to the eyes.

Remarks
• Spare LCD projector parts are kept in stock at least for eight years after the product is discontinued. • LCD panel manufacturing requires extremely high-precision technology with pixels having a 99.99% quality control rating. However, there does exist a 0.01% or smaller possibility of dead pixels or constantly lit pixels. • Please note that product colors in the brochure may differ slightly from those of actual products. • All screen pictures in the catalog are simulated. • All company and product names are the trademarks or registered trademarks of respective owners. • Product appearance and specifications subject to change without notice.

Further details regarding this product can be accessed at **http://www.digital-sanyo.com**

> ***Caution:** please consult the instruction manual to ensure safe and proper operation of the product.

ISO 14001 JAB JACO UKAS ENVIRONMENTAL MANAGEMENT
JSA ISO 9001 Registration No. JSAG 002

Super brightness and clarity   10,000 ANSI lumens, high contrast

*PLC-XF45

PLC-XF45

Remarkable brightness. Crystal clarity. Breathtaking beauty. That's what these Sanyo projectors deliver, thanks to advanced technologies and features that meet all your projection needs.

Sanyo's new LCD projectors raise basic standards to a lofty new level. Designed for professional use, these models provide 10,000 ANSI lumens for exceptional brightness plus an 1100:1 contrast ratio (PLC-XF45) for extra clarity. Our High-Color-Purity Optical System (PLC-UF15) also boosts image beauty, while a new progressive IC enhances viewing quality when displaying video images. This all adds up to the emotional power, drama, and impact that only bright, beautiful, large-screen images can provide.

PLC-UF15

Real UXGA Projector **7700** ANSI Lumens

PLC-XF45

Real XGA Projector **10000** ANSI Lumens

Designed for professional applications, these models meet a full range of large-screen projection needs.

Digital cinema, classrooms with large-screen viewing facilities, video displays at events...LCD projectors are seeing use in more and more applications. Today, users are looking for projectors that deliver high-quality large-screen images while meeting their specific needs. Sanyo answers this demand with professional projectors that combine top performance with extra versatility. You'll find these models ideal in a host of applications and a wide range of viewing environments.

PLC-EF30
Real SXGA Projector **5800** ANSI Lumens

PLC-XF35
Real XGA Projector **6500** ANSI Lumens

PLC-XF35

Achieving Higher Levels
High-Intensity, High-Precision Projection

Multi-lamp optical system offers outstanding brightness

Each model employs a multi-lamp optical system that provides high-intensity projection. The PLC-UF15 and PLC-XF45 use four UHP lamps and achieves 7,700 and 10,000 ANSI lumens respectively. The PLC-XF35 has two UHP lamps and delivers 6,500 ANSI lumens. By stacking two projector units, more powerful projection with doubled intensity is possible.

UHP lamp

High-color-purity optical system* enhances image beauty

By improving reproducibility of the three primary colors (red, blue, and green), this advanced Sanyo system helps deliver a superior overall color performance suitable for digital cinema applications.

* PLC-UF15 only

Select between two lighting modes to suit conditions of use

All models feature two lighting modes: a high-brightness mode which has all lamps turned on; and an economy mode*[1] which doubles the amount of usable time. The user simply selects the mode best suited for a particular environment. If one lamp is accidentally turned off when used in the high-brightness mode, the system automatically switches over to the economy mode. This fail-safe function*[2] prevents a presentation from being interrupted.

*1 In the economy mode, brightness is half that of the high-brightness mode.
*2 The PLC-UF15, PLC-UF10, PLC-XF40 and PLC-XF45 performs this function even in the economy mode (two-lamp mode) switching to a one-lamp mode, but color and brightness correction is not performed. A switchover to the one-lamp mode only occurs if an emergency should arise.

Astounding high-precision UXGA real projection

Choose from the best projector from the wide variety of lineup – from the PLC-UF15 which offers real 1,600 x 1,200 UXGA resolution, the PLC-EF30 with real 1,280 x 1024 SXGA resolution, or the PLC-XF35 and PLC-XF45 featuring real 1,024 x 768 XGA resolution. Any of SANYO projectors meets your demands, including CAD/CAM, design drawings on workstations or HDTV images*, providing sharp and crisp, high-definition images.
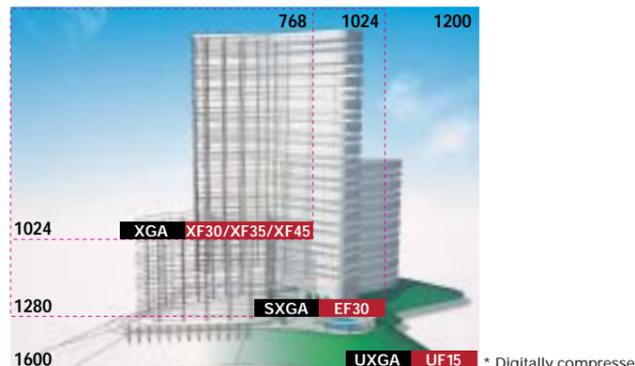
* Digitally compressed.

Beautiful Images from Various Sources
Digital Technology for High-Quality Pictures

New progressive scan IC: Beautiful moving images

A newly developed progressive scan IC enhances image quality. Also, the use of an original circuit for cross-color separation gives moving images a more natural and beautiful diagonal resolution. Full compatibility with 2-3 pull-down and high-definition TV signals (1080i) also assures superb quality when projecting film sources.
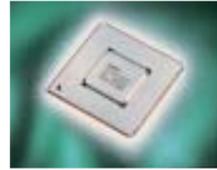
High-contrast optical system

Each model employs a high-contrast optical system to produce a 1,100:1* contrast, a breakthrough ratio for liquid crystal transmission systems. The 10-bit digital gamma correction control function allows smoother gradation characteristics and controls gradation reproduction according to images input.
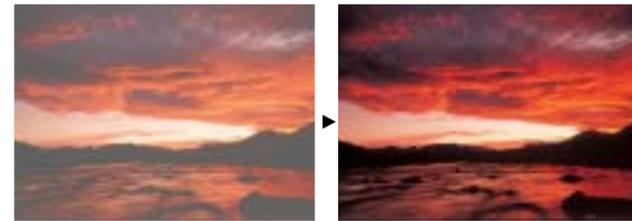
* PLC-XF45/XF35

Three 3-D digital circuits

Each model comes with three 3-D digital circuits: a 3-D digital progressive circuit for I/P conversion of 1080i signals; a 3-D digital Y/C separation circuit to increase resolution and reduce noise; a 3-D digital noise reduction circuit for reproducing flicker-free, vivid images.

Crosstalk/ghosting canceller

It eliminates the problem of ghosting on images. The crosstalk canceller reduces signal interference between the drive circuits on the liquid crystal panels. Line/dot inversion reduces signal interference between pixels.

Intelligent sharpness controller

These models make use of the intelligent sharpness controller sharpen the detail of areas other than areas with steep image signals such as ruled lines and characters that are often prone to generate bright lines. Irrespective of the input mode for RGB/video, the controller delivers clearer, sharper images.

3D-AUCC circuit

The 3D Automatic Uniformity Correction Control (AUCC) provides precise compensation at a total of 7,425 points. Compared with conventional systems*, this offers more than ten times the control over color problems caused by a lack of brightness conformity. The result is smoother, more natural gradation.

* Correction points of conventional AUCC cirucuit are 624.

Supporting Various User Systems
Superb Expandability

User-replaceable lenses

Eight different user-replaceable lenses, from short-fixed to long-fixed types, are optionally available. It is easy to exchange a lens. Simply mount the optional lens in the supplied adapter, and screw the adapter in place.*

Supplied lens adapter

* This lens exchange system is featured on the PLC-UF15/XF45/XF35.

| Wide fixed lens 1 LNS-W01Z | Wide zoom lens LNS-W02Z | Wide fixed lens 2 LNS-W03 | Standard zoom lens 2 LNS-S02Z |
| Standard zoom lens 3 LNS-S03 | Semi-long zoom lens LNS-M01Z | Long fixed lens LNS-T01 | Long zoom lens LNS-T02 |

MVP (Multi-Versatile Interface Platform) system allows a choice of interface

Each model has slots for accommodating input/output interface boards*, such as video boards and RGB boards. The RS-232C terminals including cross-through output terminals as well as input terminals, can be controlled by external devices for easily and flexibly configuring an ideal system for each user.

* Some boards can be installed to limited slots.

PJ-Net Organizer Board (Option)

Adding this optional board gives you greater control over operational settings and remote management than you get with the conventional RS-232C interface.

Power-driven lens shift — effective in stacked systems

Using the power-driven lens shift function* allows the user to move the projection screen about without lifting the main unit. This function is especially effective for projection with two units stacked.

* PLC-UF15/UF10/XF45/XF40: up/down, left/right PLC-EF30/XF35/XF30: up/down only

Real SXGA Projector 5800 ANSI Lumens PLC-EF30
Real XGA Projector 6500 ANSI Lumens PLC-XF35
Real XGA Projector 5200 ANSI Lumens PLC-XF30

*1 PLC-EF30 *2 PLC-XF35 *3 PLC-XF30

*Photos show projectors with an optional lens attached.
*Maximum brightness of models with the optional lens LNS-S03 attached are shown here.
The PLC-EF30/XF35/XF30/UF15/XF45 are available in silver.
The PLC-UF10/XF40 are available in white.

Real Color Manager

This makes it easier to adjust the white balance and gamma curve adjustments: simply compare the projected images from the enclosed CD-ROM* with the images on the enclosed photo sheet. Because you can view the image as you adjust the settings, it's easy to attain faithful color reproduction in almost any projection environment. This function also responds to professional needs by allowing precise color settings using the gamma curve for each RGB color. Once settings are correct, you can store them on a PC** and later retrieve them for easy set-up.

* Windows 98/Me/2000/XP ** One batch of settings can be saved in projector memory.

Digital keystone effect correction for undistorted images

Each model provides digital keystone effect correction to compensate keystone distortions.

NOTE:
Correction range: PLC-UF15/UF10: +30° ~ -20°
　　　　　　　　PLC-EF30/XF45/XF40/XF35/XF30: +35° ~ -30°
Correction range differs depending on lens shift, throw distance, input signals, zoom ratio, etc. Aspect ratio of a projected image may be different from that of the LCD panel in some circumstances. Compensated images are slightly smaller than original images.

Other Features

• On-Start: Allows quick projection simply by switching the system on.
• Power management function automatically turns the power off when no signals are enterd.
• Retractable carrying bar. (PLC-UF15/UF10/XF45/XF40)
• Adjustable leg system with a pop-up handle and shuttle dials. (PLC-UF15/UF10/XF45/XF40)
• Many presentation support functions, including freeze, presentation timer, No Show and so on.
• High-definition digital resizing with DRIT
• USB terminal
• Rear and hanging projection capability
• Built-in stereo amplifier and speakers (3 W + 3 W)
• Wireless/wired mouse remote controller with built-in laser pointer (LED indicator for laser pointer mode built-in).
• RS-232C self-diagnostic function. (PLC-UF15/XF45/XF35)

Real UXGA Projector 7700 ANSI Lumens PLC-UF15
Real XGA Projector 10000 ANSI Lumens PLC-XF45

*4 PLC-UF15 *5 PLC-XF45

Real UXGA Projector 7700 ANSI Lumens PLC-UF10
Real XGA Projector 7700 ANSI Lumens PLC-XF40

Projection images simulated.

Options to maximize high performance

Dedicated options

PLC-UF15/UF10/XF45/XF40

- Installation example — Mounting hardware for low ceilings **POA-CHS801**
- Mounting hardware for high ceilings **POA-CHL801**
- Installation example — Stacking hardware **POA-CHT802**
- Shipping case **POA-CC-XG5000**

PLC-EF30/XF35/XF30

- Installation example — Mounting hardware for low ceilings **POA-CHS803**
- Mounting hardware for high ceilings **POA-CHL803**
- Installation example — Stacking hardware **POA-CHT803**
- Shipping case **POA-CC-XF30**

Common-use Options

Interface Board

- **POA-MD11DVI** DVI
- **POA-MD12VD1** 5BNC
- **POA-MD16VD1** 5BNC
- **POA-MD03VD2A** VIDEO/Y/C
- **POA-MD04VGA** Mini D-Sub15
- **POA-MD08HD** HD-SDI
- **POA-MD09VD3** I/P Conversion
- **POA-MD13NET** Network

Cables and Adaptors

Product name	DVI Board	5-BNC Board	5-BNC Board	Video/YC Board	Mini D-sub 15 Board	HD-SDI Board	I/P Conversion Board	Network Board
Item code	POA-MD11DVI	POA-MD12VD1	POA-MD16VD1	POA-MD03VD2A	POA-MD04VGA	POA-MD08HD	POA-MD09VD3	POA-MD13NET
Image Terminal	DVI	R/Pr, G/Y, B/Pb, H/HV, V 5-BNC	R/Pr, G/Y, B/Pb, H/HV, V 5-BNC	Video/Y,C & S-Video 2-BNC & S-terminal	VGA D-Sub15	HD-SDI BNC	Video/Y, C/Cb,Cr; S-Video 3-BNC; S-terminal	R/Pr, G/Y, B/Pb, H/HV, V 5-BNC
Image Signal	T.M.D.S	RGBHV, Sync on RGB and Component	RGBHV, Sync on RGB and Component	Composite and Y,C	RGBHV, Sync on G	SMPTE292M	Composite, Y/C, Y/Cb/Cr	–
Sound Terminal	–	RCAX2	RCAX2	RCAX2	RCAX2	–	RCAX2	–
Sound Signal	–	500mVrms 47K	500mVrms 47K	500mVrms 47K	500mVrms 47K	–	500mVrms 47K	–
Others Control board	Min DIN 8-Pin	Min DIN 8-Pin	Min DIN 8-Pin	–	Min DIN 8-Pin	–	–	D-sub 9-pin
Others LAN port	–	–	–	–	–	–	–	Module 8-pin
Weight (g)	128	158	158	164	129	129	315	155
Exterior dimensions W x H x D (mm)	187×30×110	187×30×110	187×30×110	187×30×110	187×30×110	187×30×110	187×30×110	187×30×110
Compatibility UF15, XF45, XF35	○	○	×	○	○	○	○ (UG)	○ (UG)
Compatibility UF10, EF30, XF40, XF30	○	○	×	○	○	○	○ (UG)	○ (UG)

UG: Firmware upgrade required.

Cables and Adaptors

Product name	Item code	Remarks
Cable kit for computer connection	KA-CB-KIT	Cable for DOS/V OS (Length:1.8m, terminal:Mini D-Sub15pin, Shape: male-male). MAC and PC98 adaptors, one type each (Shape:male-female).
RGB extension cable	KA-MC-DB10	Terminal type:Mini D-Sub15pin (male-female).
MAC adaptor	POA-MACAP	For MAC connections (use in combination with accessory analog RGB cable). Corresponds to 13", 16", 19" and 21" modes.
Mouse control cable	POA-MCMAC	For MAC connections, 2.7m cable length, terminal type:Mini DIN8pin (male)-Mini DIN4pin (male).
	POA-MCSRL	For serial terminal connections, 2.7m cable length, terminal I type:Mini DIN8pin (male)-D-sub9pin (female).
Mouse extension cable	POA-MC10	For extending mouse control cable, 10m cable length, terminal type:Mini DIN8pin (male)-Mini DIN8pin (female).

* If a laptop with non-standard terminals is used, be sure to use adaptors specified by the laptop's manufacturer.

Flat Panel Display Digital Cable

- POA-DFP0301 Cable length:3m
- POA-DFP1001 Cable length:10m

DVI-DFP Converter Adaptor

POA-ADP-VF

* Required when connecting the digital flat panel cable to the DVI terminal.

Screens and Stands

Screens

Type	Model number	Screen gain	Picture size
Free-hanging roll-up type	KA-LCV-101KZ	0.88	Type 100
	KA-LCV-81KZ	0.88	Type 80
	KA-LCV-61KZ	0.88	Type 60
Spring-back roll-up type	KA-LCV-102SP	1.8	Type 100
	KA-LCV-82SP	1.8	Type 80
Floor-standing type	KA-LCV-81RU	2.2	Type 80

Stand for free-hanging roll-up screen

Type	Remarks
KA-SST-KZ1	Types 60 & 80 : 1 hanger / Type 100 : 2 hangers (2 stands necessary)

Graphic Accelerator *Options to attach to your PC

Product name	Graphic accelerator board	Graphic accelerator card
Item code	POA-BPCI01	POA-CBUS01
Corresponding model	PCI-Bus loaded DOS/V machine	CardBus correspondent PC card (TYPE II) Slot loaded DOS/V machine
Corresponding OS	Windows 98 95	
RGB out terminal Analog	Mini D-Sub15pin	Exclusive 16pin
RGB out terminal Digital	MDR20pin	Exclusive 26pin
Resolution (Max. color display)	640×480 (full color), 800×600 (full color), 1024×768 (full color), 1280×1024 (full color), 1600×1200 (high color)	640×480 (full color), 800×600 (full color), 1024×768 (full color), 1280×1024 (high color)
Accessories	1 analog RGB output cable, 1DFP compatible digital output cable, 1 display driver (FD), 1 Instruction Manual	1 analog RGB output cable, 1DFP compatible digital output cable, 1 display driver (FD), 1 Instruction Manual.

* A dedicated flat panel display digital cable is required when using the digital output.
* Applicable display resolution varies depending on the projector used.

Terminal

PLC-UF15/UF10/XF45/XF40

PLC-EF30/XF35/XF30

Lenses

Product name	Wide fixed lens 2 LNS-W03	Wide fixed lens 1 LNS-W01Z	Wide zoom lens LNS-W02Z	Standard zoom lens 2 LNS-S02	Standard zoom lens 3 LNS-S03	Semi-long zoom lens LNS-M01Z	Long zoom lens LNS-T02	Long fixed lens LNS-T01
Product number	LNS-W03	LNS-W01Z	LNS-W02Z	LNS-S02Z	LNS-S03	LNS-M01Z	LNS-T02	LNS-T01Z
Focal length	30	45	52 68	76 97	97 131	125 162	158 221	253
F value	F2.6	F2.5	F2.5 F2.9	F2.0 F2.3	F1.7 F2.7	F2.0 F2.6	F2.0 F2.6	F2.0
Lens aperture	175	175	120	116	137	95	130	158
Lens weight	3.1	5.8	2.5	1.9	3.7	1.9	3.1	3.8
Projection light axis H1 H2	1:1	1:8 8:1	1:8 8:1	0:10 10:1	1:8 8:1	1:8 8:1	1:8 8:1	1:8 8:1
Projection light axis W1 W2	1:1	2 3 3 2	2 3 3 2	2 3 3 2	2 3 3 2	2 3 3 2	2 3 3 2	2 3 3 2
Zoom/focus	/	/	Motor driven	Motor driven	Motor driven	Motor driven	Motor driven	/
Twin stack support	×	×	○	○	○	○	○	○

Throw / Screen size

Screen size	W03 Throw	W01Z Throw	W02Z Max.zoom	W02Z Min.zoom	S02Z Max.zoom	S02Z Stack point	S02Z Min.zoom	S03 Max.zoom	S03 Stack point	S03 Min.zoom	M01Z Max.zoom	M01Z Stack point	M01Z Min.zoom	T02 Max.zoom	T02 Stack point	T02 Min.zoom	T01Z Throw/stackpoint
40-inch	0.60m	0.91m	1.1m	1.4m	1.5m	2.0m	2.0m	—	—	—	2.9m	3.3m	3.7m	3.7m	4.3m	5.1m	5.6m
50-inch	0.77m	1.16m	1.4m	1.8m	1.9m	2.5m	2.5m	—	—	—	3.6m	4.1m	4.6m	4.6m	5.4m	6.3m	7.0m
60-inch	0.93m	1.41m	1.6m	2.2m	2.3m	3.1m	3.1m	—	—	—	4.3m	4.8m	5.5m	5.5m	6.4m	7.6m	8.4m
70-inch	1.10m	1.65m	1.9m	2.6m	2.7m	3.6m	3.6m	—	—	—	4.9m	5.6m	6.4m	6.4m	7.4m	8.8m	9.8m
80-inch	1.27m	1.90m	2.2m	2.9m	3.2m	4.1m	4.2m	—	—	—	5.6m	6.4m	7.3m	7.3m	8.5m	10.0m	11.2m
90-inch	1.43m	2.15m	2.5m	3.3m	3.6m	4.7m	4.7m	—	—	—	6.3m	7.2m	8.2m	8.1m	9.5m	11.3m	12.6m
100-inch	1.60m	2.40m	2.8m	3.7m	4.0m	5.2m	5.3m	5.2m	6.7m	7.1	7.0m	8.0m	9.1m	9.0m	10.6m	12.5m	14.0m
110-inch	1.77m	2.65m	3.1m	4.1m	4.4m	5.7m	5.8m	5.8m	7.3m	7.8	7.7m	8.8m	10.0m	9.9m	11.6m	13.7m	15.4m
120-inch	1.93m	2.90m	3.4m	4.4m	4.8m	6.3m	6.4m	6.3m	8.0m	8.6	8.4m	9.6m	10.9m	10.8m	12.6m	15.0m	16.8m
130-inch	2.10m	3.14m	3.7m	4.8m	5.3m	6.8m	6.9m	6.8m	8.7m	9.3	9.1m	10.4m	11.8m	11.7m	13.7m	16.2m	18.2m
140-inch	2.27m	3.39m	4.0m	5.2m	5.7m	7.3m	7.4m	7.4m	9.4m	10.0	9.8m	11.2m	12.7m	12.5m	14.7m	17.4m	19.6m
150-inch	2.43m	3.64m	4.3m	5.6m	6.1m	7.8m	8.0m	7.9m	10.1m	10.7	10.5m	12.0m	13.6m	13.4m	15.8m	18.7m	21.0m
160-inch	2.60m	3.89m	4.5m	5.9m	6.5m	8.4m	8.5m	8.5m	10.7m	11.5	11.2m	12.8m	14.5m	14.3m	16.8m	19.9m	22.4m
170-inch	2.77m	4.14m	4.8m	6.3m	6.9m	8.9m	9.1m	9.0m	11.4m	12.2	11.9m	13.6m	15.4m	15.2m	17.8m	21.2m	23.8m
180-inch	2.93m	4.39m	5.1m	6.7m	7.4m	9.4m	9.6m	9.5m	12.1m	12.9	12.6m	14.4m	16.3m	16.1m	18.9m	22.4m	25.3m
190-inch	3.10m	4.63m	5.4m	7.1m	7.8m	10.0m	10.2m	10.1m	12.8m	13.6	13.3m	15.2m	17.2m	16.9m	19.9m	23.6m	26.7m
200-inch	3.27m	4.88m	5.7m	7.5m	8.2m	10.5m	10.7m	10.6m	13.5m	14.4	14.0m	16.0m	18.1m	17.8m	20.9m	24.9m	28.1m
210-inch	3.43m	5.13m	6.0m	7.8m	8.6m	11.0m	11.3m	11.1m	14.2m	15.1	14.7m	16.8m	19.0m	18.7m	22.0m	26.1m	29.5m
220-inch	3.60m	5.38m	6.3m	8.2m	9.0m	11.6m	11.8m	11.7m	14.8m	15.8	15.4m	17.6m	19.9m	19.6m	23.0m	27.3m	30.9m
230-inch	3.77m	5.63m	6.6m	8.6m	9.5m	12.1m	12.4m	12.2m	15.5m	16.5	16.1m	18.3m	20.8m	20.5m	24.1m	28.6m	32.3m
240-inch	3.93m	5.88m	6.9m	9.0m	9.9m	12.6m	12.9m	12.8m	16.2m	17.3	16.8m	19.1m	21.7m	21.3m	25.1m	29.8m	33.7m
250-inch	4.10m	6.12m	7.2m	9.3m	10.3m	13.1m	13.5m	13.3m	16.9m	18.0	17.4m	19.9m	22.6m	22.2m	26.1m	31.0m	35.1m
260-inch	4.27m	6.37m	7.4m	9.7m	10.7m	13.7m	14.0m	13.8m	17.6m	18.7	18.1m	20.7m	23.5m	23.1m	27.2m	32.3m	36.5m
270-inch	4.43m	6.62m	7.7m	10.1m	11.2m	14.2m	14.6m	14.4m	18.2m	19.4	18.8m	21.5m	24.4m	24.0m	28.2m	33.5m	37.9m
280-inch	4.60m	6.87m	8.0m	10.5m	11.6m	14.7m	15.1m	14.9m	18.9m	20.0	19.5m	22.3m	25.3m	24.9m	29.2m	34.7m	39.3m
290-inch	4.77m	7.12m	8.3m	10.8m	12.0m	15.3m	15.6m	15.5m	19.6m	20.9	20.2m	23.1m	26.2m	25.7m	30.3m	36.0m	40.7m
300-inch	4.93m	7.37m	8.6m	11.2m	12.4m	15.8m	16.2m	16.0m	20.3m	21.6	20.9m	23.9m	27.0m	26.6m	31.3m	37.2m	42.1m
310-inch	5.10m	7.61m	8.9m	11.6m	12.8m	16.3m	16.7m	16.5m	21.0m	22.3	21.6m	24.7m	27.9m	27.5m	32.4m	38.4m	43.5m
320-inch	5.27m	7.86m	9.2m	12.0m	13.3m	16.9m	17.3m	17.1m	21.6m	23.1	22.3m	25.5m	28.8m	28.4m	33.4m	39.7m	44.9m
330-inch	5.43m	8.11m	9.5m	12.4m	13.7m	17.4m	17.8m	17.6m	22.3m	23.8	23.0m	26.3m	29.7m	29.3m	34.4m	40.9m	46.4m
340-inch	5.60m	8.36m	9.8m	12.7m	14.1m	17.9m	18.4m	18.2m	23.0m	24.5	23.7m	27.1m	30.6m	30.1m	35.5m	42.1m	47.8m
350-inch	5.77m	8.61m	10.1m	13.1m	14.5m	18.5m	18.9m	18.7m	23.7m	25.3	24.4m	27.9m	31.5m	31.0m	36.5m	43.4m	49.2m
360-inch	5.93m	8.86m	10.3m	13.5m	14.9m	19.0m	19.5m	19.2m	24.4m	26.0	25.1m	28.7m	32.4m	31.9m	37.5m	44.6m	50.6m
370-inch	6.10m	9.10m	10.6m	13.9m	15.4m	19.5m	20.0m	19.8m	25.0m	26.7	25.8m	29.5m	33.3m	32.8m	38.6m	45.8m	52.0m
380-inch	6.27m	9.35m	10.9m	14.2m	15.8m	20.0m	20.6m	20.3m	25.7m	27.4	26.5m	30.3m	34.2m	33.7m	39.6m	47.1m	53.4m
390-inch	6.43m	9.60m	11.2m	14.6m	16.2m	20.6m	21.1m	20.9m	26.4m	28.2	27.2m	31.0m	35.1m	34.5m	40.7m	48.3m	54.8m
400-inch	6.60m	9.85m	11.5m	15.0m	16.6m	21.1m	21.7m	21.4m	27.1m	28.9	27.9m	31.8m	36.0m	35.4m	41.7m	49.5m	56.2m
410-inch	6.77m	10.1m	11.8m	15.4m	17.0m	21.6m	22.2m	21.9m	27.8m	29.6	28.6m	32.6m	36.9m	36.3m	42.7m	50.8m	57.6m
420-inch	6.93m	10.3m	12.1m	15.8m	17.5m	22.2m	22.7m	22.5m	28.5m	30.3	29.3m	33.4m	37.8m	37.2m	43.8m	52.0m	59.0m
430-inch	7.10m	10.6m	12.4m	16.1m	17.9m	22.7m	23.3m	23.0m	29.1m	31.1	29.9m	34.2m	38.7m	38.1m	44.8m	53.2m	60.4m
440-inch	7.27m	10.8m	12.7m	16.5m	18.3m	23.2m	23.8m	23.5m	29.8m	31.8	30.6m	35.0m	39.6m	39.0m	45.8m	54.5m	61.8m
450-inch	7.43m	11.1m	13.0m	16.9m	18.7m	23.8m	24.4m	24.1m	30.5m	32.5	31.3m	35.8m	40.5m	39.8m	46.9m	55.7m	63.2m
460-inch	7.60m	11.3m	13.2m	17.3m	19.1m	24.3m	24.9m	24.6m	31.2m	33.2	32.0m	36.6m	41.4m	40.7m	47.9m	56.9m	64.6m
470-inch	7.77m	11.6m	13.5m	17.6m	19.6m	24.8m	25.5m	25.2m	31.9m	34.0	32.7m	37.4m	42.3m	41.6m	49.0m	58.2m	66.1m
480-inch	7.93m	11.8m	13.8m	18.0m	20.0m	25.3m	26.0m	25.7m	32.5m	34.7	33.4m	38.2m	43.2m	42.5m	50.0m	59.4m	67.5m
490-inch	8.10m	12.1m	14.1m	18.4m	20.4m	25.9m	26.6m	26.2m	33.2m	35.4	34.1m	39.0m	44.1m	43.3m	51.0m	60.6m	68.9m
500-inch	8.27m	12.3m	14.4m	18.8m	20.8m	26.4m	27.1m	26.8m	33.9m	36.1	34.8m	39.8m	45.0m	44.2m	52.1m	61.9m	70.3m
510-inch	8.43m	12.6m	14.7m	19.1m	21.3m	26.9m	27.7m	27.3m	34.6m	36.9	35.5m	40.6m	45.9m	45.1m	53.1m	63.1m	71.7m
520-inch	8.60m	12.8m	15.0m	19.5m	21.7m	27.5m	28.2m	27.9m	35.3m	37.6	36.2m	41.4m	46.8m	46.0m	54.2m	64.3m	73.1m
530-inch	8.77m	13.1m	15.3m	19.9m	22.1m	28.0m	28.8m	28.4m	35.9m	38.3	36.9m	42.2m	47.7m	46.9m	55.2m	65.6m	74.5m
540-inch	8.93m	13.3m	15.6m	20.3m	22.5m	28.5m	29.3m	28.9m	36.6m	39.0	37.6m	43.0m	48.6m	47.7m	56.2m	66.8m	75.9m
550-inch	9.10m	13.6m	15.9m	20.7m	22.9m	29.1m	29.9m	29.5m	37.3m	39.8	38.3m	43.7m	49.5m	48.6m	57.3m	68.0m	77.3m
560-inch	9.27m	13.8m	16.1m	21.0m	23.4m	29.6m	30.4m	30.0m	38.0m	40.5	39.0m	44.5m	50.4m	49.5m	58.3m	69.3m	78.7m
570-inch	9.43m	14.1m	16.4m	21.4m	23.8m	30.1m	30.9m	30.6m	38.7m	41.2	39.7m	45.3m	51.3m	50.4m	59.3m	70.5m	80.1m
580-inch	9.60m	14.3m	16.7m	21.8m	24.2m	30.6m	31.5m	31.1m	39.4m	42.0	40.4m	46.1m	52.2m	51.3m	60.4m	71.7m	81.5m
590-inch	9.77m	14.6m	17.0m	22.2m	24.6m	31.2m	32.0m	31.6m	40.0m	42.7	41.1m	46.9m	53.1m	52.1m	61.4m	73.0m	82.9m
600-inch	9.93m	14.8m	17.3m	22.5m	25.0m	31.7m	32.6m	32.2m	40.7m	43.4	41.8m	47.7m	54.0m	53.0m	62.5m	74.2m	84.3m

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Ratio of light axis of image throw

Comparison of vertical light axis (H1:H2)

Throw distance L
- H1 H2 = 0 10
- H1 H2 = 1 1
- H1 H2 = 10 0

Screen — Projector

Ratio of vertical light axis (W1:W2)
*PLC-UF15/UF10/XF45/XF40

Screen — 1 2 3, 1 2 = 1 1, 1 2 = 3 2

Numbers are approximate

Ratio of projection light axis (H1:H2, W1:W2) cannot be electronically changed. Range of change differs according to lens.

*1 The approximate projection distance has been calculated based on lens specifications. A maximum 3% differentiation may occur due to minute lens size/shape variations.

*2 The "stacking point" is a recommended distance best for projection when using 2 stacked units. Due to minute lens size/shape variations, best results may not be achieved when unit is positioned away from the recommended stack point area.

*3 Short lenses (LSN-W01Z/W02Z/W03) cannot be used for stack projection.

*4 Optional lenses are provided with dedicated tools for lens changing.