Specifications

Product Number		PLC-WTC500L	PLC-XTC50L
System		RGB liquid crystal shutter protection system	RGB liquid crystal shutter protection system
Optical System		Dichroic mirror separation / Prism synthesis system	Dichroic mirror separation / Prism synthesis system
LCD Panel	Size	0.95 inch x 3, Aspect Ratio 16:10	1.0 inch x 3, Aspect Ratio 4:3
	Drive System	Polysilicon TFT Active Iris	Polysilicon TFT Active Iris
	Pixel Count	1,024,000 (1280 x 800) x 3 ; Total pixels 3,072,000	786,432 (1024 x 768) x 3 ; Total pixels 2,359,296
	Pixel Array	Stripe	Stripe
Projection Lens		Lenses sold separately	Lenses sold separately
Light Source		330 W NSHA Lamp (1 lamp + 1 lamp)	330 W NSHA Lamp (1 lamp + 1 lamp)
Screen Size (Projection Distance)		Minimum 30" - Maximum 300" (Projection distance differs by lens)	Minimum 30" - Maximum 300" (Projection distance differs by lens)
Color Reproducibility		Full color (16.77 million colors)	Full color (16.77 million colors)
Brightness*1		5,000 lumens	5,000 lumens
Uniformity		90 %	90 %
Contrast Ratio*2 (Full On/ Full Off)		3,000:1	1,100:1
Sound Output (Speakers)		3.0 W + 3.0 W Stereo Speakers (5 x 9 cm x 2)	3.0 W + 3.0 W Stereo Speakers (5 x 9 cm x 2)
Scanning Frequency		Horizontal: 15-100 KHz, Vertical: 50-100 Hz, Dot Clock: 140 MHz or less (analog)	Horizontal: 15-100 KHz, Vertical: 50-100 Hz, Dot Clock: 140 MHz or less (analog)
Resolution (resizing) (When using RGB signal)		1280 x 800 (UXGA dot resizing possible)	1024 x 768 (UXGA dot resizing possible)
Terminals	PC Input/ Output	Analog RGB input x 1; Mini D-sub 15-pin x 1, BNC 5-type x 1 Digital video input (x 1); HDMI x 1 Analog RGB output x 1; Mini D-sub 15-pin x 1 Audio input x 2; Stereo mini-jack x 2 (Computer/ Component)	Analog RGB input x 1; Mini D-sub 15-pin x 1, BNC 5-type x 1 Digital video input (x 1); DVI-D x 1 Analog RGB output x 1; Mini D-sub 15-pin x 1 Audio input x 2; Stereo mini-jack x 2 (Computer/ Component)
	Video/ Audio Input/ Output	Video x 3 ; RCA input, BNC 3-type (same as PC input terminal), S-Video Audio input x 2 ; RCA-type x 2 Audio monitor output x 1 ; RCA (can be used with either computer or video)	Video x 3 ; RCA input, BNC 3-type (same as PC input terminal), S-Video Audio input x 2 ; RCA-type x 2 Audio monitor output x 1 ; RCA (can be used with either computer or video)
	Controller input/ output, and other	Service port ; Mini DIN 9-pin x 1 (for service-use), USB Connector x 1 (B Series) Wired remote control port ; Mini-jack x 1, PJ Net Organizer Connector x 1	Service port ; Mini DIN 9-pin x 1 (for service-use), USB Connector x 1 (B Series) Wired remote control port ; Mini-jack x 1, PJ Net Organizer Connector x 1
Operating Temperature		5 - 40 ℃	5 - 40 ℃
Power Source		AC 100 - 120 V, AC 200 - 240 V (±10 ℃), 50/ 60 Hz	AC 100 - 120 V, AC 200 - 240 V (±10 ℃), 50/ 60 Hz
Power Consumption		530 W, 420 W in "Eco1" lamp mode (Standby: approx 14 W)	550 W, 440 W in "Eco1" lamp mode (Standby: approx 20 W)
Dimensions (W x H x D)		451.0 x 175.0 x 550.1 mm (17.8 x 6.9 x 21.7 inch)	451.0 x 175.0 x 550.1 mm (17.8 x 6.9 x 21.7 inch)
Weight		14.7kg (32.4lbs)	14.7kg (32.4lbs)
Main Accessories		Wireless remote control (AAA battery x 2), Removable power cord, USB cable, Computer cable, Owner's manual (Quick manual, CD-ROM), PIN code-locking seal	Wireless remote control (AAA battery x 2), Removable power cord, USB cable, Computer cable, Owner's manual (Quick manual, CD-ROM), PIN code-locking seal

Replacement Lamp type No: POA-LMP125(610 342 2626)

Major Options

Optional Lenses

Part Number	LNS-W11	LNS-W10	LNS-S11	LNS-T10	LNS-T11
Type	Wide Fixed Lens	Wide Zoom Lens	Standard Zoom Lens	Long Zoom Lens	Long Zoom Lens
Image					
Throw Distance	0.8 : 1	1.2 - 1.6 : 1	1.6 - 2.1 : 1	2.1 - 3.4 : 1	3.4 - 5.4 : 1
Focal Length	16.51 mm(0.7")	25 - 33 mm (1.0 -1.3")	33 - 43 mm(1.3 -1.7")	43 - 69 mm(1.7-2.7")	69.1 - 109.2 mm (2.7 - 4.3")
Lens Shift U/D	1 : 1	10 : 0 - 1 : 1	10 : 0 - 1 : 1	10 : 0 - 1 : 1	10 : 0 - 1 : 1
Lens Shift L/R	1 : 1	13 : 7 - 7 : 13	13 : 7 - 7 : 13	13 : 7 - 7 : 13	13 : 7 - 7 : 13
Motor Driven	No	Yes	Yes	Yes	Yes
F Value	2.3	2.3 - 2.6	1.7 - 2.1	2.0 - 2.6	2.1 - 2.52
Net Weight	1.0 kg(2.2 lbs)	0.95 kg(2.1 lbs)	0.825 kg(1.8 lbs)	1.0 kg(2.2 lbs)	1.1 kg(2.4 lbs)

WTC500L Throw distance (unit: m (feet))

Unit	LNS-W11 Fixed	LNS-W10 Wide	LNS-W10 Tele	LNS-S11 Wide	LNS-S11 Tele	LNS-T10 Wide	LNS-T10 Tele	LNS-T11 Wide	LNS-T11 Tele
40"	-	1.0(3.3)	1.3(4.2)	1.3(4.3)	1.7(5.7)	1.7(5.6)	2.9(9.4)	2.9(9.6)	4.6(15.1)
60"	0.99(3.25)	1.5(5.0)	2.0(6.6)	2.0(6.6)	2.6(8.7)	2.6(8.6)	4.3(14.2)	4.3(14.2)	6.9(22.5)
80"	1.34(4.40)	2.1(6.8)	2.6(8.6)	2.7(8.9)	3.5(11.6)	3.5(11.6)	5.8(19.0)	5.7(18.8)	9.1(29.9)
100"	1.69(5.55)	2.6(8.5)	3.3(10.8)	3.4(11.2)	4.5(14.6)	4.4(14.6)	7.3(23.9)	7.1(23.4)	11.4(37.3)
150"	2.57(8.43)	3.9(12.8)	5.0(16.3)	5.2(17.0)	6.7(22.1)	6.7(22.0)	10.9(35.9)	10.6(34.9)	17.0(55.8)
200"	-	5.2(17.2)	6.6(21.8)	6.9(22.8)	9.0(29.5)	9.0(29.5)	14.6(48.0)	14.2(46.4)	22.6(74.3)
250"	-	6.6(21.5)	8.3(27.3)	8.7(28.5)	11.3(36.9)	11.2(36.9)	18.3(60.1)	17.7(58.0)	28.3(92.7)
300"	-	7.9(25.9)	10.0(32.8)	10.4(34.3)	13.5(44.4)	13.5(44.3)	22.0(72.1)	21.2(69.5)	33.9(111.2)

XTC50L Throw distance (unit: m (feet))

Unit	LNS-W11 Fixed	LNS-W10 Wide	LNS-W10 Tele	LNS-S11 Wide	LNS-S11 Tele	LNS-T10 Wide	LNS-T10 Tele	LNS-T11 Wide	LNS-T11 Tele
40"	-	1.0(3.3)	1.3(4.3)	1.3(4.3)	1.7(5.6)	1.7(5.6)	2.8(9.2)	2.6(8.5)	4.3(14.1)
60"	0.96(3.15)	1.5(4.9)	1.9(6.2)	2.0(6.6)	2.5(8.2)	2.5(8.2)	4.2(13.8)	4.0(13.1)	6.4(21.0)
80"	1.29(4.23)	2.0(6.6)	2.6(8.5)	2.6(8.5)	3.4(11.2)	3.4(11.2)	5.6(18.4)	5.3(17.4)	8.6(28.2)
100"	1.63(5.35)	2.5(8.2)	3.3(10.8)	3.3(10.8)	4.3(14.1)	4.3(14.1)	7.0(23.0)	6.7(22.0)	10.8(35.4)
150"	2.48(8.14)	3.8(12.5)	4.9(16.1)	5.0(16.4)	6.5(21.3)	6.5(21.3)	10.6(34.8)	10.1(33.1)	16.3(53.5)
200"	-	5.1(16.7)	6.6(21.7)	6.7(22.0)	8.7(28.5)	8.7(28.5)	13.1(43.0)	13.5(44.3)	21.7(71.2)
250"	-	6.3(20.0)	7.6(24.9)	8.4(27.6)	10.0(32.8)	10.9(35.8)	13.1(43.0)	16.9(55.4)	27.2(107.0)
300"	-			10.0(32.8)		13.1(43.0)		20.3(66.6)	32.6(107.0)

*1 Brightness when using the LSN-S11 lens *2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
*Specifications as of May 29, 2009, subject to change.

Caution: Please consult the instruction manual to ensure safe and proper operation of the product.

Terminals

PLC-WTC500L

PLC-XTC50L

External dimensions (unit: mm (inch))

Think GAIA
For Life and the Earth

WXGA / XGA Multimedia Projector

PLC-WTC500L
PLC-XTC50L

The Lamp Selection System Brings High Reliability

The Lamp Selection System Brings High Reliability

Easier maintenance and highly functional projector, It automatically switches lamps.

High Image Quality

PLC-WTC500L

Durable Inorganic Optical System (D.I.O.S.)
16:10 wide-screen aspect ratio LCD panels
Durable In-organic Optical System provides a more durable projector to handle many extended hour applications and high-quality, high-contrast (3000:1) image presentations.

PLC-XTC50L

High reliable optical compensator
4:3 aspect ratio LCD panels
An optical compensator that has excellent light and heat resistance is used to achieve a long service life for the optical block and dramatically increase reliability.

High Reliability

Industry's first[1] lamp selection system: No lamp maintenance necessary for approximately 6,000 hours[2]

The foundation of 2-lamp model projector has developed with the "high precision optical axis adjustment technology". The technology was further evolved to enable the mirror to automatically select the lamp using a control motor. Lamp selection system makes approximately 6,000 hours[2] of projection possible, or twice as long as conventional one-lamp models. When the first lamp is worn-out before the expected time, the lamp selection mirror automatically rotates and the second lamp starts the projection. This will avoid the interruption of the presentation due to the unexpected lamp failure.[3]
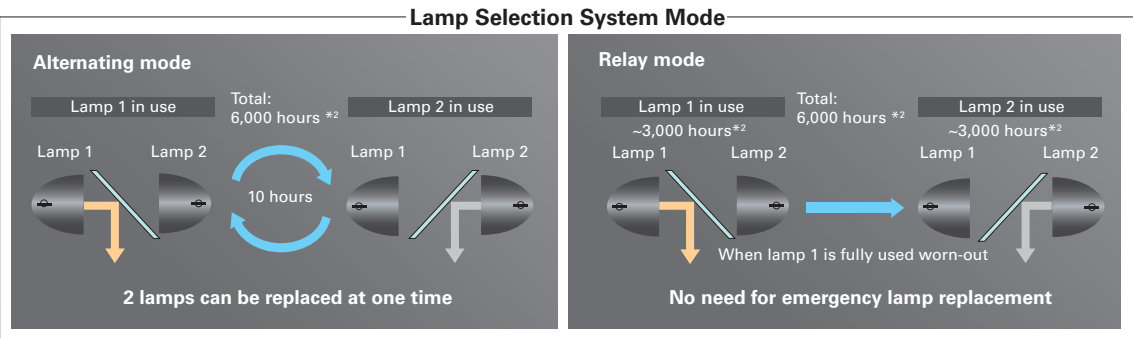
Lamp Selection System

Lamp 1 : 330W Lamp   Lamp Selection Mirror   Lamp 2 : 330W Lamp

Alternating mode
If the lamp is used for more than 10 hours at one time, then the lamp is automatically switched upon powering up the next time.

Relay mode
"Relay Mode" uses one lamp to recommended lamp replacement time, then switches lamps.

Lamp Selection System Mode

Alternating mode
Lamp 1 in use — Total: 6,000 hours[2] — Lamp 2 in use
Lamp 1 / Lamp 2 — 10 hours — Lamp 1 / Lamp 2
2 lamps can be replaced at one time

Relay mode
Lamp 1 in use ~3,000 hours[2] — Total: 6,000 hours[2] — Lamp 2 in use ~3,000 hours[2]
Lamp 1 / Lamp 2 — When lamp 1 is fully used worn-out — Lamp 1 / Lamp 2
No need for emergency lamp replacement

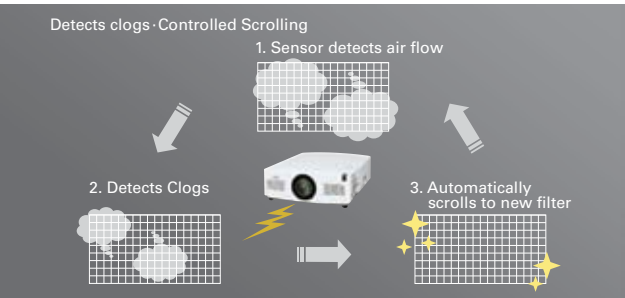**Auto Lamp Selection System for 24/7 Continuous Operation**
This optional lamp extension method utilizes SANYO's PJ Net Organizer (not included). You can schedule the rotation of the lamps. Once the timer schedule has been set, the PJ Net will automatically rotate the lamps. In order to use the projector for 24/7 continuous operation, the timer must be set to switch lamps every 24 hours. 24/7 continuous operation is useful for signage, advertising and information boards.

Easy Maintenance
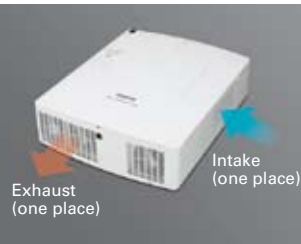
Active Maintenance Filter (AMF)
Actual use time: Long life at 13,000 hours[2]
(Cartridge cycle: approx. 2 years[4])

The filter sensor detects the intake airflow volume, and scrolls a clean filter surface when the filter becomes soiled.

POA-FIL-100

Detects clogs·Controlled Scrolling
1. Sensor detects air flow
2. Detects Clogs
3. Automatically scrolls to new filter

One-Way Cooling Mechanism (Intake x1, Exhaust x1)
Intake and exhaust ports have been eliminated from various places on the projector (such as the bottom surface) and concentrated into one intake and one exhaust, to solve dust-related problems (and improve cooling performance).

Exhaust (one place)   Intake (one place)

Easier Lamp Replacement
Lamp replacement has been simplified to make maintenance easier.
Easy removal and replacement of the lamp from the Top.

*1 For projectors, as of May 27, 2009 *2 When in ECO1 mode *3 When changing other lamp, the image is interrupted several tens of seconds. *4 Calculation based on 14 hrs/ day projector use Based on JIS D-0207 accelerated testing environment conditions) * Replacement time listed here is an educated estimate

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Accommodates all installation needs and has advanced networking capabilities.
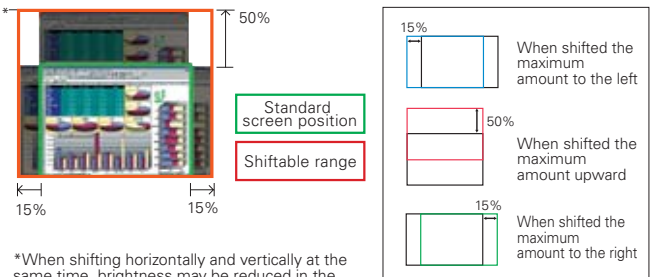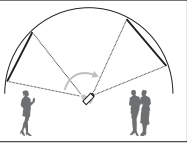
Versatile Installation

Power Vertical / Horizontal Lens Shift
Featuring both vertical and horizontal lens shift (vertical: 0 to 50 %, horizontal: ±15 % (maximum)), the PLC-WTC500L/XTC50L enable intuitive operation for easy on-site setup.
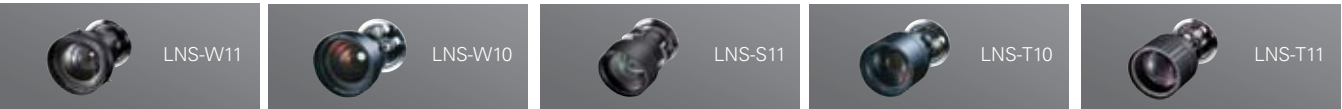
Vertical Installation
The PLC-WTC500L/XTC50L can also be installed to project images upward or downward.

Standard screen position
Shiftable range
15%   15%
50%
When shifted the maximum amount to the left
When shifted the maximum amount upward
When shifted the maximum amount to the right

*When shifting horizontally and vertically at the same time, brightness may be reduced in the corners of the screen.

Interchangeable Lenses (Option)
The existing XT-series lenses can be used just as they are. Lens removal and attachment are also very easy. *Lenses are sold as options.

LNS-W11   LNS-W10   LNS-S11   LNS-T10   LNS-T11

Network Control

PJ-Net Organizer (option)
To use the PJ-Net technology, simply attach the PJ-Net Organizer to the projector.
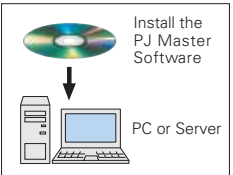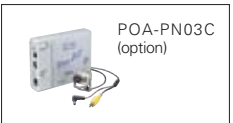
POA-PN03C (option)

PJ Master (option)
The PJ Master software allows centralized control of PJ-Net Organizer-mounted projectors over a network. Install PJ Master on your PC or server.
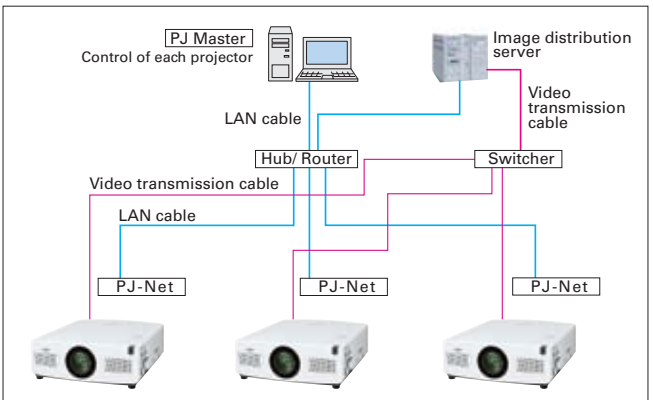
Install the PJ Master Software
PC or Server

PJ-Net Organizer Usage Example
Projectors connected by the PJ-Net Organizer let you access the following advanced centralized control functions.

*Monitoring the internal temperature of the projector *Notification of lamp-related information (e.g. malfunction, operating hours, etc.) *Comprehensive management of network-connected projectors *Database applications for all acquired data

● Network Capture Function ● Web-based Management
● Network Viewer Function ● E-mail Alert Function Sends Messages

PJ Master
Control of each projector
Image distribution server
LAN cable
Video transmission cable
Hub/ Router
Switcher
Video transmission cable
LAN cable
PJ-Net   PJ-Net   PJ-Net

Useful Features

Mechanical shutter
There's also a Mechanical Shutter System which is popular for a variety of elite professional uses. The amazing PLC-WTC500L/XTC50L fill the needs of a host of demanding business venues including meetings, entertainment and promotional applications. It's a super nova in a star-studded selection of SANYO Portable projectors.

(ex) closing of a presentation

Silence Design (31dB, in ECO1 mode)
The operating noise is hardly noticeable even in quiet settings like conference or AV rooms.

Built-in Test Pattern
Makes on-site setup easier by serving as a guide for setting adjustments. (Includes a total of 8 built-in patterns).

WXGA/XGA Multimedia Projector
PLC-WTC500L/PLC-XTC50L
Brightness of 5,000 lumens