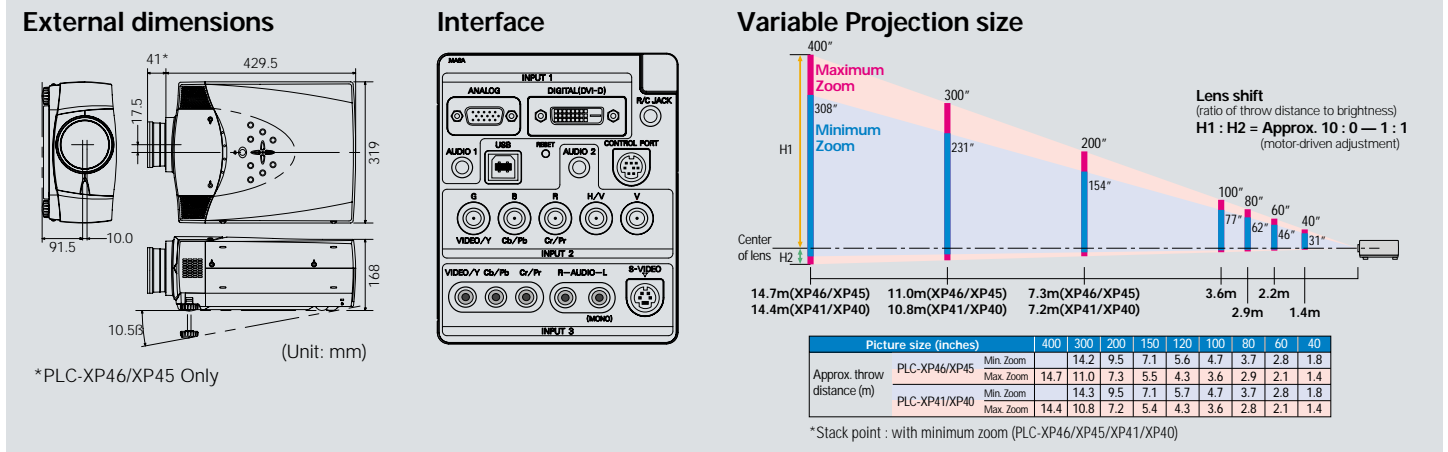


PLC-XP46/XP45/XP41/XP40



Portable XGA  
Multimedia LCD Projectors

PLC-XP46/XP45  
PLC-XP41/XP40

The New Standard in LCD Projectors



Specifications

Model number	PLC-XP46	PLC-XP45	PLC-XP41	PLC-XP40
Projector type	Portable LCD color data projector			
Screen size	Adjustable from 31 inch to 400 inch			
Picture brightness	4,100 ANSI lumens	3,500 ANSI lumens	3,300 ANSI lumens	2,600 ANSI lumens
Contrast ratio	800:1		550:1	500:1
Fan noise	35dBA*1	37dBA	35dBA*1	37dBA
Horizontal resolution	800 TV lines (HDTV)			
Throw distance	From 1.4m to 14.7m (100 inch at 3.6—4.7m)		From 1.4m to 14.4m (100 inch at 3.6—4.7m)	
LCD Panel system	Three 1.3 TFT p—Si activematrix type			
Panel resolution	1,024 x 768 dots			
Number of pixels	2,359,296 (786,432 x 3)			
Projection system	X-type prism system			
Projection lens	F/1.7—2.0, f=48.2—62.6mm		F/1.8—2.1, f=48.4—62.8mm	
Projection lamp	275W NSH lamp	200W UHP lamp	275W NSH lamp	200W UHP lamp
Amplifier	Stereo, 2W rms			
Speaker	Two pieces ∅50mm			
Lens sift (U/D ratio)	10:0—1:1			
Laser Beam	Class II			
Wavelength	650 - 20nm			
Output	1mW max			
Dimensions	319 (W) x 168 (H) x 429.5*2 (D)mm			
Net weight	8.4kg (18.5 lbs.)		7.9kg (17.4 lbs.)	
Rated power supply	100—240V AC, 50Hz/60Hz auto change			
Scanning frequency	Automatic frequency control H sync: 15—100kHz, V sync: 50—100Hz Dot clock: 160MHz			
Color systems	PAL/SECAM/NTSC/NTSC-4.43/PAL-M/PAL-N			
Input 1	Computer input: One mini D-sub 15-pin (Analog RGB) or one DVI-D (Digital)		Audio: One stereo mini jack	
Input 2	Computer/Video input: 5 BNC (video or Y/Cb/Cr or Y/Pb/Pr or RGBHV)		Audio: One stereo mini jack	
Input 3	Video input: 3 RCA (video Y-Cb/Pb-Cr/Pr), one S-video		Audio: 2 RCA	
Control I/O, others	Control port: Mini DIN 8-pin, USB Type B Wired remote control: stereo mini jack			
Expansion port (for POAPN01)	Yes	No	Yes	No
Power consumption				
Normal mode	380W (13W in standby)	300W (11W in standby)	380W (13W in standby)	380W (13W in standby)
Eco mode	310W (13W in standby)		310W (13W in standby)	
Main accessories	• Wired remote jack (Mini jack) • Wireless/Wired Remote Control Unit (Air pad remote) • AC power supply cord • Computer cable (VGA) • MAC adaptor • PC control cable (PS2/MAC/SERIAL) • Dust cover • Lens cover • Owner's manual			

\*1Eco mode: Brightness is approximately 80 percent of normal levels.  
 \*2Excluding protrusions  
 • SANYO LCD panels are manufactured to the highest possible standards. At least 99.99% of the pixels are effective, however a tiny fraction of the pixels (0.01% or less) may be ineffective.  
 • Specifications are subject to change without notice. • Screen and display images are simulated.



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

Distributed by:



SANYO Electric Co., Ltd.  
 TV & Visual Display Products Division  
 www.digital-sanyo.com  
 \*2002 SANYO Printed in Japan 2002.4. MA.  
 SML-022

High Contrast Ratio  
**800:1**  
 \*PLC-XP46/XP45



The pictured product is the PLC-XP46.	The pictured product is the PLC-XP41.
<b>4,100</b> ANSI Lumens PLC-XP46	<b>3,500</b> ANSI Lumens PLC-XP45
<b>3,300</b> ANSI Lumens PLC-XP41	<b>2,600</b> ANSI Lumens PLC-XP40



# QUALITY

## 4100 ANSI lumens (XP46) – bright enough for large conference rooms

The high-performance 275-watt short-arc NSH lamp\*1 light source is enhanced by the built-in microlenses of the 1.3-inch XGA polysilicon liquid crystal panels to achieve an on-screen brightness level of 4100 ANSI lumens\*2, making these projectors ideal for large meeting rooms, conference halls or classrooms.



\*1 XP46/XP41 only. \*2 XP46 brightness.

## High-contrast optical system

Polarized scattering is corrected as the light passes through the panels, ensuring high-contrast on-screen color reproduction with solid black. A contrast ratio of 800:1\* ensures that these projectors offer more natural image reproduction with finer gradation.



\*XP46/XP45

## Intelligent sharpness control

This leading-edge signal processing technology analyzes the incoming signal and controls the amount of correction accordingly. The result is sharp yet natural-looking images.



## Digital high-quality image technology

### 3D-AUCC circuit

Compared with conventional methods, SANYO's new 3D Automatic Uniformity Correction Control offers more than ten times the level of control over color problems caused by lack of brightness conformity. This helps to ensure natural-looking gradation.



### 3D digital progressive circuit

SANYO technology enhances the video projection capabilities of these models. 3D sampling for each pixel together with SANYO's unique movement detection algorithm program lead to increased horizontal resolution and increased diagonal resolution on moving images.

### 3D digital Y/C separation circuit

This circuit enhances resolution and reduces noise on moving images to produce a clearer, finer picture.

### 3D digital noise reduction

Luminance noise and chrominance noise in the video signal are filtered out by this circuit to ensure finer on-screen colors without flicker.

# USABILITY

## Up/down left/right keystone correction

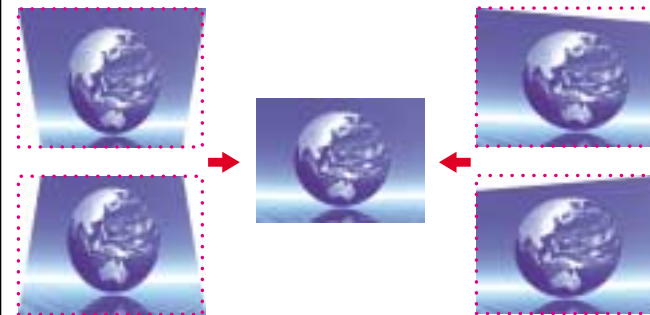
In addition to up/down keystone correction (maximum –40 degrees), SANYO has added left/right keystone correction\* (maximum –10 degrees) to these new models. This makes it possible to project correct-looking images even if the projector is not directly in front of the screen.

\*XP46/XP41 only

Left/right keystone cannot be corrected beyond a 10:0 offset ratio.

\*On screen image size after correction is smaller than that of the original.

\*Correctable range varies according to input signal and digital zoom magnification, etc.



## Eco mode

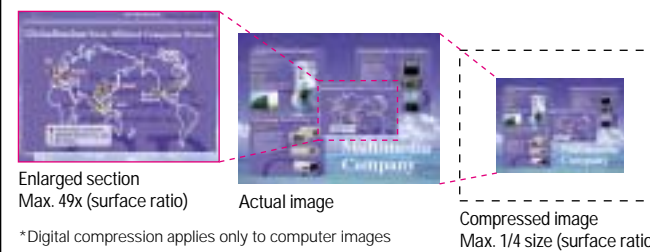
Eco mode\* offers quiet operation with low energy consumption. If quietness is a prime concern, there is no need to worry that loud bursts of fan activity will disturb the presentation.

\*XP46/XP41 only

Brightness is approximately 80 percent of normal levels.

## Optical and digital zoom for simpler setup

In addition to the 1.3x power-driven zoom focus, these projectors feature digital zoom functions\* that magnify a section of the screen image by up to 49-times (surface ratio). You can also compress the screen image down to a maximum of 1/4 its original size (surface ratio) to accommodate your setup parameters.



Enlarged section  
Max. 49x (surface ratio)

Actual image

Compressed image  
Max. 1/4 size (surface ratio)

\*Digital compression applies only to computer images

## Power-driven lens shift for stress-free setup



You can move the projected image up and down on the screen without physically moving the projector thanks to the power-driven lens shift. This makes it easy to center the image on screen ready for your presentation.

\*Shift ratio (up/down) of 10:0 to 1:1. However 1:1 fixed with LNS-W32 lens

## 11-language on-screen graphical user interface

Designed for straightforward use, the GUI provides a choice of 11 languages (English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Chinese, Korean, and Japanese).

# FLEXIBILITY

## PJ-Net Organizer (option)

These projectors\* can be connected to a computer network via the PJ-Net Organizer (POA-PN01, sold separately) for management and control capabilities. Projectors located in several different locations can be controlled from a single computer using your normal web browser — there is no need for any special software.



Dedicated connection terminal (projector side)

Example of POA-PN01 connection

\*XP46/XP41 only, connection terminal provided. PJ-Net Organizer is not compatible with the XP45 and XP40.

## E-mail warning messages

A warning message is sent to the maintenance staff or user if the projector malfunctions, or if it is time to replace a lamp.

## Automatic on/off timer

You can program the days and times of projector use (maximum 10 events) so that the projector will automatically switch on and off. The timer can be programmed to run every day or every week, or for specific days.

## Web management

Using a web browser application, you can check on the condition of the projector or adjust the controls in the following ways: **Projector condition:** lamp use time, projector use time, in-store condition, power supply, input information **Projector controls:** power (on/off), input mode, PC, system, image, and other settings

**Saving/downloading of settings:** input mode, system, image and screen settings can be stored or downloaded

## Multiple control functions

Up to 99 projectors can be operated from a single computer without the need for any special control boxes or software.

## Control of peripherals

PJ-Net Organizer is equipped with an RS-232C serial communications port. This allows control of peripheral appliances that are similarly equipped with a serial port\*.

\*Serial port setting required. Special driver software, etc., may be needed (not provided with the POA-PN01).

## Interchangeable optional lenses

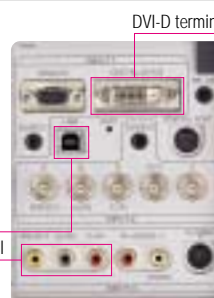
SANYO offers three optional lens types for these projectors: a fixed short-focus lens, a short-focus zoom lens, and a long-focus zoom lens. By replacing the original standard lens, you can adapt the projector to your needs.



## Input versatility

These projectors are equipped with an extensive array of input terminals to suit a range of projection sources. DVI-D is optimized for PC input. A USB port is included together with the control port. And there is a component input for high-definition signals\*.

\*Digital compression



## Other Features

- On start • Presentation support features • Digital resizing
- Rear/ceiling-mounted projection • Built-in stereo amplifier and speakers • Wireless/Wired remote control with mouse functions and built-in laser pointer

## Main Options

### Screens

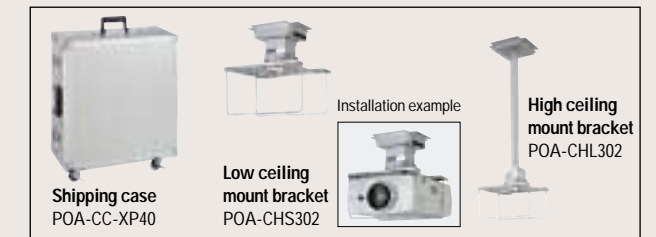
Type	Model number	Screen gain	Image size (inches)
Hanging	KA-LCV-101KZ	0.88	100
	KA-LCV-81KZ	0.88	80
	KA-LCV-61KZ	0.88	60
Spring roll-up	KA-LCV-102SP	1.8	100
	KA-LCV-82SP	1.8	80
Free-standing	KA-LCV-81RU	2.2	80

### Cables/Adapters

Products name	Model number	Notes
Computer connection cable kit	KA-CB-KIT	DOS/V cable (1.8m, mini D-sub 15-pin, male-male type) Mac and PC-98 adapters (male-female type)
RGB extension cable	KA-MC-DB10	10m length, mini D-sub 15-pin (male-female type)
Mac adapter	POA-MACAP	Mac adapter for use with included analog RGB cable, 13", 16", 19", 21" mode compatible
Mouse control cables	POA-MCMAC	Mac cable, 2.7m, mini DIN 8-pin (male), mini DIN 4-pin (male)
	POA-MCSRL	Serial cable, 2.7m, mini DIN 8-pin (male), mini D-sub 9-pin (female)
Mouse extension cable	POA-MC10	10m length, mini DIN 8-pin (male), mini DIN 8-pin (female)

Special I/O adapters may be required for certain notebook computers.

### Miscellaneous



### Lenses

Type	Fixed short focus	Short focus zoom	Long focus zoom
Model	LNS-W32	LNS-W31A	LNS-T31A
Focal distance	f=22.3mm	f=34-48mm	f=64-112mm
F value	F2.5	F2.5-F3.1	F2.0-F2.9
Max. Diameter	ø175mm	ø99mm	ø99.5mm
Weight	1.6kg	1.7kg	1.9kg
Lens shift	1:1 (Fixed)	Approx. 10:0 - 1:1	Approx. 10:0 - 1:1
Zoom/Focus	Fixed/Hand-operated	Motor driven 1.4x/Motor driven	Motor driven 1.8x/Motor driven
Approx. throw distance			
Picture size	Throw distance	Max. Zoom	Min. Zoom
		Max. Zoom	Min. Zoom
40"	-	1.0m	1.4m
60"	-	1.5m	2.2m
70"	1.2m	1.8m	2.5m
80"	1.3m	2.0m	2.9m
90"	1.5m	2.3m	3.3m
100"	1.7m	2.5m	3.6m
110"	1.8m	2.8m	4.0m
120"	2.0m	3.1m	4.4m
150"	-	3.8m	5.5m
170"	-	4.4m	6.2m
200"	-	5.1m	7.3m
250"	-	6.4m	9.2m
300"	-	7.7m	11.0m
350"	-	9.0m	12.9m
400"	-	10.3m	14.7m

\*1 Lens throw distances quoted here are subject to 3% variation.

\* Performance may be affected outside the stack point range.

Note: Comparative images used in this catalog are not actual projected images.



# The Evolution of Projection

High brightness ..High image quality ..Large screen projection ..Great user-friendliness.

To these familiar yet outstanding features, SANYO has now added networking capabilities, marking the next step forward in LCD projector development.

PJ-Net Organizer (optional) enables you to control and maintain a series of projectors via a computer network, including the Internet.

No other models offer such an attractive balance of features with such remarkable ease of use.

## THE PRESENTATION PROJECTOR



The pictured product is the PLC-XP41.

**PLC-XP41** with PJ-Net Organizer (option)  
**PLC-XP40**



\*1: PLC-XP41 \*2: PLC-XP40 \*3: U/D/L/R (Up/down left/right keystone correction)

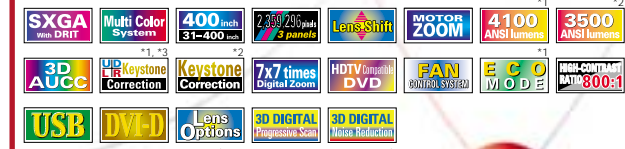
### QUALITY

4100 ANSI lumens (XP46)  
High-contrast optical system  
Intelligent sharpness control  
3D-AUCC  
Digital picture quality circuitry



The pictured product is the PLC-XP46.

**PLC-XP46** with PJ-Net Organizer (option)  
**PLC-XP45**



\*1: PLC-XP46 \*2: PLC-XP45 \*3: U/D/L/R (Up/down left/right keystone correction)

### USABILITY

Up/down left/right keystone correction (XP46/XP41)  
"Eco mode" energy-saving & low-noise operation (XP46/XP41)  
Optical and digital zoom  
Power-driven lens shift

### FLEXIBILITY

Network capability (XP46/XP41)  
Wide range of optional lenses  
DVI-D  
USB  
Component input

## Network maintenance and control with PJ-Net Organizer (option)



**PJ-Net Organizer**  
**POA-PN01**

#### Product specifications

LAN interface	Applicant regulation IEEE802.3 (10Base-T) IEEE802.3u (100Base-TX)
Data transfer speed	10Mbps/100Mbps
Data transfer mode	Half duplex/Full Duplex
Terminal	8-pin modular (RJ-45)
Network protocol	TCP/IP specification TCP/IP
Serial interface	RS-232C
Baud rate	0.3/1.2/2.4/4.8/9.6/19.2/28.8/57.6/115.2 Kbps
Flow control	Hardware flow control (RTS/CTS, Xon/Xoff)
Parity check	Odd/Even
Terminal	D sub 9-pin Male
Power source	Supplied from the projector
Power consumption	3.0 watts
Dimensions (W x H x D)	105 x 27.5 x 132mm
Weight	245 g (0.54 lbs)
Built-in battery	Lithium battery, Type CR2032, 3.0V
Operating temperature	41F - 95° F (5° C - 35° C) 14F - 140° F (-10° C - 60° C)

\* The specifications are subject to change without notice.

#### Computer, network and application requirements for PJ-Net Organizer

- OS: Windows® 95/98/Me/NT4.0/2000/XP, Mac OS 8.0 or later
- Network environment: Ethernet in normal operation and TCP/IP protocol capability
- Computer environment: 10 Base — T/100 Base — XT network card, Netscape® Navigator 4.7 or later
- Web browser: Internet Explorer 5.0 or later, Netscape® Navigator 4.7 or later
- Internet mail software: Microsoft® Outlook/Outlook Express, Netscape® Mail

\*XP46/XP41 only, connection terminal provided. PJ-Net Organizer is not compatible with the XP45 and XP40.

E-mail warning messages

Automatic on/off timer

Web management

Multiple control functions

