

## Benefits at a Glance

- TOPAZ with 10-bit color technology
- Contrast: 2,000 : 1
- HDTV panel with 1,280 x 720 pixels
- True 16:9 format
- Electronic iris function
- Manual lens shift
- Overscan function
- 800 ANSI lumens
- Wide-angle lens
- Three lamp modes
- Intuitive, simple operation
- Clear menu setup
- Illuminated remote control
- Wide range of connection options and HDMI input
- Quietest LCD projector of all

## PLV-Z3 Technical Specifications



Brightness	800 ANSI lumens						
Panel	3 x 0.7" TFT p-Si (16 : 9)						
Number of Pixels	1,280 x 720 (HDTV)						
Projection Lamp	135 W UHP						
Uniformity	85 %						
Contrast Ratio	2,000 : 1 (in graphic mode)						
Lens	F = 2.04 – 2.54; f = 21.5 – 27.7 mm						
Aspect Ratio	1.4 – 1.8 : 1						
Throw Distance	1.2 – 6.1 m						
Color Systems	PAL / SECAM / NTSC / NTSC4.43 / PAL-M/N						
Compatibility	S-XGA / XGA / S-VGA / VGA / MAC						
Lens Shift Function (Manual)	1/2 image width left/right, 1 image height up/down						
Digital Keystone Correction	Vertical +/- 20°						
Connections	Input 1: D-Sub15 (RGB / SCART- RGB)	Input 2: HDMI	Input 3: 1x Cinch (Composite)	Input 4: 3x Cinch (Y-Pb/Cb-Pr/Cr)	Input 5: 3x Cinch (Y-Pb/Cb-Pr/Cr)	Input 6: Mini-DIN 4-pin (S-Video)	Control Input Jacks: 1 x Mini DIN 8-pin (RS- 232-compatible)
HDTV Compatibility	480i, 480p, 575i, 576p, 720p, 1035i, 1080i						
Frequency	Horizontal: 15 ~ 80 kHz; Vertical: 50 ~ 100 Hz						
Bandwidth	100 MHz						
Voltage   Power Consumption	100 – 240 V   210 W						
Dimensions (W x H x D)	359 x 116.7 x 273.5 mm						
Weight	4.1 kg						
Standard Accessories	IR remote control (illuminated) incl. battery, power cable (2 m), video cable (1x cinch), operating manual, standard wide-angle lens, vacuum pump						
Optional Accessories	Mac/VGA adapter, SCART/VGA cable						

Technical specifications are subject to change without notice. Date 09/2004

**SANYO**

# PLV-Z3

Home theater perfection from the SANYO dream factory.

**SANYO**



# PLV-Z3

Turn your home into a high-end movie theater.  
With all that this entails.

Can you truly enjoy the big movie theater experience in the comfort of your own home? Can projectors just project good images or create a genuine theater ambience? Can you be sure tomorrow that you have bought the right projector? Can you get a top-quality movie theater experience at an affordable price?

If you are asking yourself these questions, you are on the right track with SANYO. With the PLV-Z1 and the PLV-Z2 we set the standards for discriminating movie lovers. We are going even further with the new PLV-Z3. Thanks to TOPAZreal and 10-bit color technology, you can experience a new way of seeing.

But top-quality viewing without the ultimate in user-friendliness and exemplary upgradeability is of little value. So our engineers thought about this as well and installed the standards of tomorrow's world. HDTV and HDMI are just two examples. **As a result, the PLV-Z3 will play the leading role in your home theater for a long time to come.**

*Exquisite design in two colors:  
the PLV-Z3 is available  
with a black and silver housing.*



## Image Quality

One billion colors, optimum contrast at all times, HDTV and true 16:9 format. Discover a completely new image quality.

Once you have experienced it, you will never again settle for anything less. The PLV-Z3 provides you with absolutely first-class image quality.

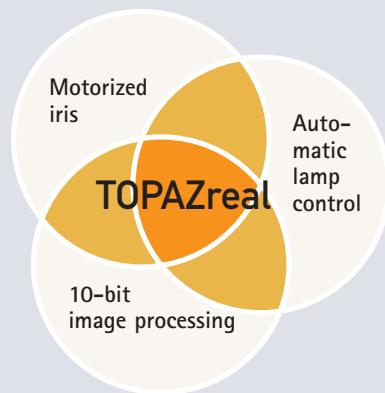
Color depth, resolution, sharpness and contrast are united in a uniquely perfect combination that you will not find among other projectors in this price range.

### TOPAZreal – a future-oriented technology setting new standards

With its perfectly coordinated motorized iris and automatic lamp control, the PLV-Z3 ensures that brightness is adjusted to match the current image content. As a result, the PLV-Z3 always renders images with optimal contrast.

In addition to this list of features, 10-bit true image processing has been used in this category of projector for the first time ever. Compared with the 8-bit technology that has been used to date, this offers four times more grayscales (1,024 instead of 256) and can display more than one billion colors compared with the 16.6 million previously used. In practice, this means that the projector can display more finely detailed images and a significantly higher color depth thanks to the display of a considerably greater number of intermediary colors and shades.

The integration of these three functions – motorized iris, automatic lamp control and 10-bit image processing – is grouped by SANYO under the **TOPAZreal** (TOtal image Processing for Advanced Z-series) concept and sets new standards for quality in home theater.



### Experience tomorrow's home theater today: HDTV and true 16:9 format make this a reality.

With its 16:9 format, the PLV-Z3 produces as authentic a movie theater feeling as you could expect from a good home theater projector.

The HDTV panel with a resolution of 1,280 x 720 pixels marks a major advance. Enjoy tomorrow's technology today: movies and TV in breathtaking, state-of-the-art HDTV quality.

# Image Quality

## A true giant when it comes to contrast and brightness

Another feature that is also unusual in this price range is the high contrast ratio of 2,000 : 1\* – with a brightness level of 800 ANSI lumens. The most effective images are thus projected as realistically and vividly as they should be: The endless realms of space are deep black and not just gray and night scenes impress with their unbelievable depth.

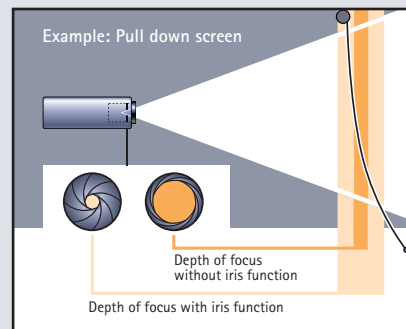
## Constant color optimization with 3D-AUCC system

With the 3D-AUCC (Automatic Uniformity Correction Controller), the PLV-Z3 is equipped with another high-end technology. The 3D-AUCC allows you to subtly adjust the image signals and optimizes color reproduction in sensitive areas, such as color transitions and skin tones.

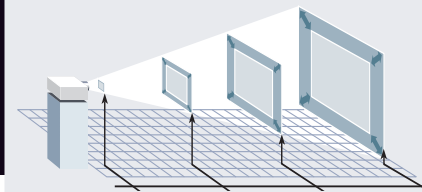
## No loss of information as a result of overscan adjustment

Using the overscan function, you can enlarge and reduce the overscan area. This guarantees you an optimized image without loss of information at the edges.

## Optimum depth at all times thanks to automatic iris function



The automatically adjusting iris diaphragm – an important component of the SANYO TOPAZreal technology – ensures that the contrast and depth of projected images is increased at those crucial moments.



Distance in m	1.2	3.0	5.0	6.1
Possible Diagonals (m)	0.79 – 1.01	1.93 – 2.49	3.20 – 4.14	3.84 – 4.98

Throw Distance		Width x Height	Diagonal
1.2	min. max.	0.67 x 0.37 0.89 x 0.50	0.79 1.01
3.0	min. max.	1.68 x 0.95 2.17 x 1.22	1.93 2.49
5.0	min. max.	2.79 x 1.57 3.61 x 2.03	3.20 4.14
6.1	min. max.	3.34 x 1.88 4.34 x 2.44	3.84 4.98

All specified values in [m] meters.

## Large movie theater feel even in small rooms thanks to the wide-angle zoom lens

Even home theater fans who do not have too much space do not have to miss out on the large theater experience. The integrated wide-angle zoom lens in the PLV-Z3 makes it possible to project large-format images even at short distances. For example, you can project an image with a width of 146 cm from a distance of just 2 meters.

\*) in graphic mode

## Ease-of-Use



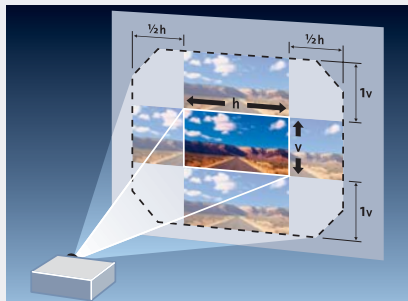
State-of-the-art technology is also the order of the day when it comes to ease-of-use. Simply enjoy the extras.

The future-oriented and completely user-friendly equipment in the PLV-Z3 means that you can concentrate entirely on perfect movie enjoyment. Easy installation, numerous connection options, perfect adjustment, dust protection – your enthusiasm and passion will not be dampened by anything.

### Lens shift function and keystone correction lead to perfect images each time

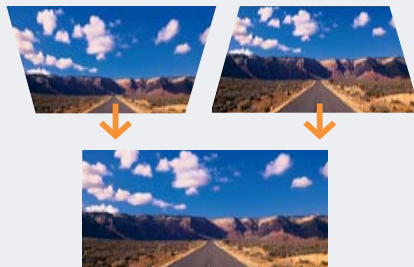
Projectors cannot always be perfectly aligned with the screen. However, with its lens shift and keystone correction features, the PLV-Z3 is equipped with everything that you need to produce a perfect image each time.

The horizontal and vertical lens shift function, which can be adjusted using two small wheels on the front of the projector, provides you with a high level of flexibility.



*Each projected image can be moved by half an image width to the right or left and by an image height up or down.*

The vertical keystone correction feature ( $\pm 20^\circ$ ) helps to deliver perfect images and eliminates keystone resulting from vertically angled projections.



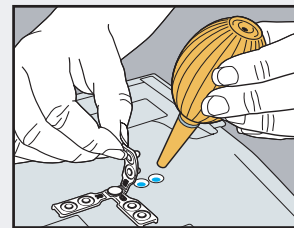
### The quietest LCD projector of all ...

The good sound quality that is part and parcel of the PLV-Z3 means that you practically don't hear the projector at all. With an operating noise level of just 23 dB (Eco), it is the quietest projector in its range. This means that you can concentrate fully on the stunning sound effects in your favorite films.

### Triple protection against troublesome dust

Dust is the greatest enemy of any projector, impairing image quality again and again. To counter this problem, the PLV-Z3 is protected in three ways.

Firstly, the integrated membrane air filter prevents dust particles from being sucked into the inside of the projector. Secondly, an automatic cleaning function can be activated via the menu. And, finally, the vacuum pump included with the accessories allows you to clean the panel manually.

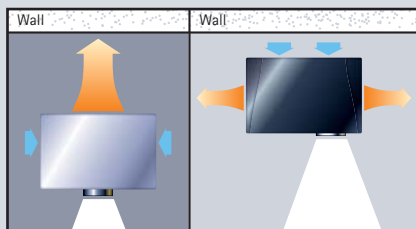


*Direct access to the three LCD panels on the underside of the device: using the vacuum pump, you can remove dust in no time at all.*

## Ease-of-Use

### More leeway during installation thanks to side venting

Right from the start, the perfect movie theater experience is a question of room and the ideal position of the projector. The PLV-Z3 offers you a high level of flexibility when installing the projector since the warm air is discharged at the sides and not out the back.



**Before:**  
A large separation from the wall was necessary for cooling

**New:**  
A minimum separation from the wall is no longer required – the space gained allows greater separation and thus larger projections!

In contrast to many other projectors, you therefore have more leeway as you need less of a gap with the back wall.

The equipment needed for mounting the projector on the ceiling is available in stores and the PLV-Z3 can also be used to project overhead by means of the relevant menu function.

### Intuitive ease of operation – in all respects

Good projectors can be adjusted quickly and are quite easy to use. Because what use is a top-of-the range product if operating it is a "never-ending story" each time?

With the PLV-Z3, setting up is a snap. The automatic input selector recognizes the incoming signal and configures itself automatically. Thanks to the clearly structured onscreen menu, all settings can be changed quickly and easily. The illuminated remote control is a real bonus in the darkness – you can make all major adjustments directly at the push of a button.

### Increased lamp life thanks to reduced power consumption

The PLV-Z3 can be operated with three different lamp modes:

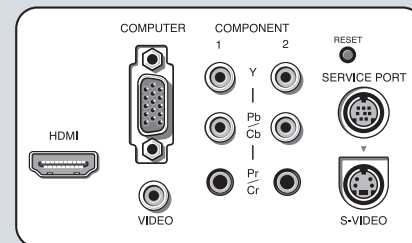
- **Normal mode:**  
Power consumption: 210 Watt  
Illumination: 100 %
- **Eco mode:**  
Power consumption: 185 Watt  
Illumination: approx. 88 %
- **Auto mode:**  
Independent switching between Eco and Normal mode. For dark scenes, Eco mode delivers greater contrast. For bright scenes, Normal mode increases color saturation.



## Connections

Range of connection options – entirely dedicated to the future

In addition to all connection types that are currently standard, the HDMI input available with the PLV-Z3 is a major advantage for the future. It means that even today you can use the full bandwidth of all digital video and audio data without any impairment of quality.





## Extensive accessories

## Exemplary service

### Summary of all connections:

- **Components input (3x cinch)**  
for all high-quality video sources such as DVD players and HDTV devices with maximum image quality and almost no loss in video signals.
- **S-Video input**  
for DVD players, video recorders, camcorders, satellite receivers (and Pay TV decoders) and games consoles in improved quality.
- **Composite input (video)**  
for DVD players, video recorders, camcorders, satellite receivers (and Pay TV decoders) and games consoles in normal quality.
- **VGA input (D-Sub15)**  
for connecting a PC. This means, for example, that you can project life-size digital holiday photos on the wall or play DVDs from the hard drive on your laptop.
- **HDMI input (DVI-compatible, HDCP-enabled)**  
The future-oriented High Definition Multimedia Interface (HDMI) handles all digital formats at an extremely high transmission rate, without compressing data and without loss of quality. And since all image and sound data is transmitted in one cable, the usual jumble of cables is finally a thing of the past. With HDMI, the PLV-Z3 is already prepared for the new copy protection standard, HDCP (High-bandwidth Digital Content Protection), and is DVI-compatible.

### Standard accessories:

- IR remote control (illuminated) including battery
- Power cable (2 m)
- Video cable (1x cinch)
- User manual
- Standard wide-angle lens
- Vacuum pump

### The following make the PLV-Z3 even more flexible:

- Mac/VGA adapter
- SCART/VGA cable

SANYO is also a shining example when it comes to warranties and repairs:

### Warranty

Outstanding proof of SANYO's high product quality is the three-year warranty it offers.

*The front shutter protects the lens from dust and scratches and makes transport to the movie evening at friends' houses even easier!*

