

**SANYO****Product Specification**

**Model: PLV-Z60**  
**3 Chip 0.7" LCD with 145W Lamp**

**Overview**

<b>Overview</b>	
<b>Description</b>	<p>Twin Iris Function (Lens Iris + Lamp Iris)            High Contrast 10,000 : 1 (Vivid mode)</p> <p>Short throw &amp; Wide range Zoom Lens (100" @ 3.0m ~ 6.1m)</p> <p>Brightness ; 1,200lm            Contrast ; 10,000 : 1            Fan noise ; 22dBA (Eco mode)</p>
<b>Image</b>	

<b>Features</b>	
<b>Maintenance</b>	User cleaning air filter
<b>Installation</b>	<p>Picture reverse scans function (Left/Right and Top/Bottom)</p> <p>World wide range voltage</p>
<b>Presentation and Display</b>	<p>Blue / Black back display</p> <p>No show mode function</p> <p>Start on screen Logo display and Customized Logo</p> <p>Picture freeze</p> <p>Display ON-OFF</p>
<b>Security</b>	Kensington Lock
<b>Language (OSD)</b>	<p>English / German / French / Spanish / Italian</p> <p>/ Portuguese / Dutch / Swedish</p> <p>/ Finnish / Polish / Hungarian / Romanian / Russian</p> <p>/ Chinese / Korean / Japanese</p>
<b>Audio</b>	No
<b>Others</b>	<p>Progressive Scanning (480i / 575i)</p> <p>(NTSC; 3:2 pull down / PAL,SECAM; 2:2 pull down)</p> <p>Power management function with time set</p>

## Specification

Display Device	
Type	Polysilicon TFT active matrix LCD    ...    Organic type
Size	0.7 inch
Micro Lens	No
Number of Pixels	2,764,800 (1,280 x 720 x 3panels)
Aspect ratio	16 : 9

Image	
Brightness	1,200 lumens (Dynamic mode)
Contrast Ratio	10,000 : 1 (Vivid mode)
Uniformity	85% (Lens shift : Center)
Color reproduction	10 bit (Approx. 1.07 billion)

Lamp	
Type	Matsushita 145W
Output	145W ( for Normal mode)
Control	Normal / React image1(Auto1) / React image2(Auto2) / Eco
Life LED (Maintenance rate 50% & Survival rate 50%)	3,000 hours (Eco) 2,000 hours (Normal)

Projection Specification	
Projection System	Dichroic mirror and X prism system with PBS
Throw Distance	1.2 m - 9.2 m ... 3.0m - 6.1m (at 100 inch projection)
Approximation	Wide : $y = 32.6x + 1.35693$ ,    Tele : $y = 16.2x + 0.6636$ (x: Throw distance,    y: Screen size)
Throw Ratio	1.36 - 2.76 : 1
Screen size	40 -300 inch
F value	F 2.0 - 3.0
Focal length	f = 21.3 - 42.6 mm
Zoom / Focus	Manual
Zoom Ratio	1 : 2.0
Lens shift	Manual,    -100% ~ +100%(up/down),    -50% ~ +50%(Right/Left)
Elevation	Up to 7.7 degrees

Input Compatibility	
Pixel clock	100MHz or less (analog RGB, component)
H. frequency	15kHz – 80kHz
V. frequency	50Hz - 100Hz
HDTV Compatible	1080p(HDMI only),    1080i / 50, 1080i / 60, 1035i, 720p
SDTV Compatible	480p, 480i, 575p, 575i
Computer compatibility	UXGA* / WXGA* / SXGA+* / SXGA* / XGA / SVGA / VGA / MAC (★ : compression)
Color systems	NTSC / PAL / SECAM / NTSC4.43 / PAL-M / PAL-N

<b>DVI Compliance</b>	No
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<b>Terminal</b>	
<b>Input / Output</b>	HDMI terminal 19-pin ; HDMI 1
	HDMI terminal 19-pin ; HDMI 2
	RCA x 3 ; Component Video (Component 1)
	RCA x 3 ; Component Video (Component 2)
	Mini-DIN 4-pin ; S-Video
	RCA x 1 ; Composite Video
	D-SUB 15-pin x 1 ; RGB input (Computer)
<b>Other</b>	mini-DIN 8pin x 1 ; Service port x 1 (Not use for mouse control) It is necessary to change the standby setting of the service mode to serial control.

<b>Power Specification</b>	
<b>Power Consumption</b>	210 W (Lamp mode : Normal) Catalog 716.5 BTU/h
	185 W (Lamp mode : Eco) Catalog 631.2 BTU/h
<b>Power Consumption (Standby)</b>	0.5 W 1.7 BTU/h
<b>Rating Power Supply</b>	100 -120V / 200 - 240V AC , 50/60Hz
<b>Operating Voltage</b>	90 - 264V (100 - 120V / 200 - 240V +/-10%)

<b>Adjustment</b>	
<b>Keystone correction</b>	U/D +/- 20 degrees
<b>Digital zoom function</b>	No
<b>Picture image mode</b>	Brilliant cinema , Creative cinema , Pure cinema, Natural , Living , Dynamic , Vivid, User image1~4

<b>Others</b>	
<b>Operating temperature</b>	5 – 35 celsius degrees
<b>Storage temperature</b>	-10 – 60 celsius degrees
<b>Fan Noise</b>	22 dBA (Eco, when not using ceiling-mount fittings or a wall-mounting kit)
	27 dBA (Normal)

## Control Unit

<b>On-board(Cabinet Top)</b>	
<b>ON / STAND-BY</b>	Lamp power ON / STAND-BY
<b>INPUT</b>	Select Input mode
<b>MENU</b>	OSD menu On/Off
<b>Pointer L / R</b>	Pointer shift
<b>Pointer U / D</b>	Pointer shift
<b>OK</b>	Data select and enter

<b>Remote controller</b>	
<b>Carrier</b>	940nm, 38KHz
<b>IR Reception range</b>	Straight on: 5m 30° Angle: 5m
<b>Code</b>	Code1, Code2
<b>Wired</b>	No
<b>Mouse control</b>	No
<b>Laser pointer</b>	No

<b>Keypad Functions</b>	
<b>ON / Stand-By</b>	Lamp power ON / Lamp power STAND-BY
<b>LIGHT</b>	Full-illuminated buttons
<b>LAMP CONTROL</b>	Select the lamp mode
<b>NO SHOW</b>	Picture blank
<b>FREEZE</b>	Picture freeze
<b>MENU</b>	OSD Menu On/Off
<b>Pointer L / R</b>	Pointer shift
<b>Pointer U / D</b>	Pointer shift
<b>OK</b>	Data select and enter
<b>RESET</b>	Return to pre-adjusted values
<b>SCREEN</b>	Screen mode select
<b>IMAGE ADJ.</b>	Picture image select
<b>BRIGHTNESS</b>	Bright adjustment
<b>CONTRAST</b>	Contrast adjustment
<b>COLOR</b>	Color adjustment
<b>LENS IRIS</b>	Lens iris adjustment
<b>IMAGE PRESET</b>	Select Preset Image
<b>IMAGE USER</b>	Select User Image
<b>VIDEO</b>	Video Input "Composite Video"
<b>S-VIDEO</b>	Video Input "S-Video"
<b>COMPONENT</b>	Video Input "Component Video 1 or 2"
<b>HDMI</b>	Video Input "HDMI 1 or 2"
<b>PC</b>	Computer Input "Analog RGB"
<b>INFO.</b>	Current operating condition Information Display

<b>Indicators</b>	
<b>Location</b>	Cabinet top
<b>Red / Green / Orange</b>	POWER indicator
<b>Yellow</b>	LAMP REPLACE indicator
<b>Red</b>	WARNING TEMP. indicator

## Dimension and Weight

Net Dimension and Weight	
<b>Net Dimension (W x H x D mm)</b>	382.0 x 126.8 x 304.3 mm (not including protruding parts)
<b>Net weight</b>	5.0 kg 11.02lbs

Packaged Dimension and Weight	
<b>Package</b>	Single carton
<b>Packaged Dimension (W x H x D mm)</b>	522 x 311 x 464 mm
<b>Packaged weight</b>	8.1 kg 17.86lbs

## Regulations

REGULATIONS	
<b>Safety</b>	UL / cUL UL 60950-1 1st Edition and CAN/CSA 22.2. No. 60950-1-03 1st Edition
	CE IEC 60950-1: Edition 1
<b>EMC</b>	FCC Part 15 Subpart B Class B
	CE EN55022: 2006 EN61000-3-2: 2006 EN61000-3-3: 1995, +A1: 2001, +A2 :2005 EN55024: 1998, +A1: 2001, +A2: 2003

## Accessories

Standard Accessories	
<b>Printing material</b>	Quick reference guide
	Owner's manual (CD-ROM)
	CD-ROM read me note
	UL cable card
	Warranty card (for US,EU)
<b>Power cord</b>	AC cord UL 3P Plug type (3.0 meters) or AC cord European 2P plug type (3.0 meters)
<b>Data Connection:</b>	No
<b>Others</b>	Remote control (Illuminated type)
	AA Battery x 2
	Air blower

## Optional

Optional	
<b>Lamp Exchange</b>	POA-LMP94
<b>Cable</b>	POA-CA-COMP10    ... Component cable, 10m
	POA-CA-HDMI    ... HDMI cable, 3m
	POA-CA-SCART    ... Scart - VGA conversion cable Scart 21(Male) ~ D-sub 15(Male), 3m