

# PLC-EF31N/NL

SXGA Digital Multimedia Projector



### INCREDIBLY BRIGHT 5800 ANSI LUMENS

A pair of high-output 200-watt UHP lamps delivers an incredible 5800 ANSI lumens of brightness.

### OUTSTANDING CONTRAST RATIO — 900:1

Through its new high-contrast optical system, utilizing micro lens technology, the PLC-EF31N/NL is able to achieve an outstanding contrast ratio of 900:1. A micro lens is integrated into each individual pixel on the three LCD panels increasing light efficiency, resulting in significantly brighter images.

### INTELLIGENT DIGITAL SHARPNESS CONTROL

This high-performance image processing technology analyzes the incoming signal and controls the sharpness of picture data only, while text and other elements that are already sharp are left unprocessed.

### NETWORK CONTROL/ADMINISTRATION

An optional network board allows for simple control and management of the projector via a CAT5 network connection. The network board, which can memorize and store up to 55 PC modes, can also be used in parallel with RS-232 controllers.

### REAL COLOR MANAGER

The Real Color Manager System provides white balance adjustment and gamma correction from a PC using the included image adjustment software by simply comparing the on-screen image to a printed color chart.

### NEW ONE-TOUCH LENS REPLACEMENT

Attaching the included One-Touch lens mount adapters to your projector and lenses makes installation and removal of our optional lenses quick and easy.



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### PLC-EF31 Multi-Versatile Interface

- (POA-MD11DVI)
- (POA-MD12VD1)
- (POA-MD03VD2)



## Specifications

<b>Resolution</b>	SXGA (1280 x 1024)
<b>Brightness</b>	5800 ANSI Lumens (2-lamp mode) 2900 ANSI Lumens (1-lamp mode)
<b>Uniformity</b>	90% (corner to corner)
<b>LCD Panel System</b>	1.8" TFT polysilicon type w/micro lens x 3
<b>Number of Pixels</b>	3,932,160 (1,310,720 x 3)
<b>Contrast Ratio</b>	900:1 (full on/off)
<b>Projection Lens</b>	Standard Zoom 2 - F2.0-2.3 (PLC-EF31N only) (Model PLC-EF31NL shipped without lens)
<b>Image Size (diagonal)</b>	40"-600"
<b>Aspect Ratio</b>	5:4
<b>Throw Distance</b>	4.9' - 107.2'
<b>Zoom/Focus</b>	Powered
<b>Throw Ratio</b>	2.0 - 2.6:1
<b>Zoom Ratio</b>	1:1.3
<b>Power Lens Shift</b>	Up/Down Ratio 10:0 - 0:10 or 8:1 - 1:8
<b>Digital Keystone Correction</b>	+ 40 / - 20°
<b>Projection Lamp</b>	200W UHP x 2
<b>Scanning Frequency</b>	H Sync: 15-120kHz V Sync: 50-120Hz
<b>Dot Clock</b>	230MHz
<b>Color System</b>	PAL/PAL-M/PAL-N/SECAM/NTSC/NTSC4.43
<b>Computer Compatibility</b>	UXGA, SXGA, XGA, SVGA, VGA, MAC
<b>Voltage</b>	100-240V AC
<b>BTU Rating</b>	1877
<b>dB Rating</b>	45.0
<b>Power Consumption</b>	550W
<b>Dimensions (WxHxD)</b>	17.3"x9.1"x23.9" (PLC-EF31N) / 23.8" (PLC-EF31NL)
<b>Net Weight</b>	PLC-EF31N - 50.5 lbs.; PLC-EF31NL - 46.3 lbs. (w/o lens)
<b>User Maintenance</b>	Clean air filters, replace lamp assembly
<b>Detachable Input Panels</b>	
<b>POA-MD11DVI</b>	Digital Visual Interface (DVI) • Left & Right Audio (RCA x 2) • Control (Min DIN 8-pin)
<b>POA-MD12VD1</b>	RGB & Component (BNC x 5) • Left & Right Audio (RCA x 2) • Control (Min DIN 8-pin)
<b>POA-MD03VD2</b>	Composite & Y/C (BNC x 2) • S-Video • Left & Right Audio (RCA x 2)
<b>Fixed Input/Output Panel</b>	Serial in & Serial out (D-Sub 9 x 2) • Audio out (RCA x 2) • USB • Wired RC jack (Stereo mini)
<b>Included Accessories</b>	Wired/Wireless I/R Remote Control w/Mouse Pad and Laser Pointer • AC power cord • VGA and DVI Cable • Wired remote cable • PS/2, Serial, MAC Mouse Control Cables • MAC/VGA and DVI/VGA Adapter • Lens cover • Lens Mount Adapters (POA-LNA01 & POA-LNA02) • Dust cover • Light Block Sheets • Owner's manual • Real Color Manager CD-ROM
<b>Optional Accessories</b>	POA-MD03VD2 - Y/C & S-Video Board POA-MD04VGA - D-Sub15 VGA Board POA-MD08HD - HD-SDI Input Panel POA-MD09VD3 - Faroudja™ Input Panel POA-MD11DVI - DVI Board POA-MD12VD1 - 5-BNC RGBHV Board POA-MD13NET - Network Board POA-LNA02 - Lens Mount Adapter (for LNS-W02, W02KS, M01, S01 lenses) POA-LNA01 - Lens Mount Adapter (for all other lenses) PLC-CSE16 - ATA Hard Shipping Case POA-LLB02 - Lamp and Ballast Kit for 100W UHP lamps

### Warranty

Three years parts and labor; 90 days lamp; Quick Repair Program under warranty

Because its products are subject to continuous improvement, SANYO reserves the right to modify product design and specifications without notice and without incurring any obligations.

## Lens Specifications

Type	Short Fixed	Short Zoom	On-Axis Short Fixed	Standard Zoom 1	Standard Zoom 2	Standard Zoom 3	Semi-Long Zoom	Long Fixed	Long Zoom
<b>Part No.</b>	LNS-W01	LNS-W02	LNS-W03	LNS-S01	LNS-S02	LNS-S03	LNS-M01	LNS-T01	LNS-T02
<b>Zoom</b>	No	Yes (power)	No	Yes (power)	Yes (power)	Yes (power)	Yes (power)	NO	Yes (power)
<b>Throw Ratio</b>	1.2:1	1.35 - 1.8:1	0.8:1	1.8 - 2.9:1	2.0 - 2.6:1	2.6 - 3.5:1	3.5 - 4.6:1	7.0:1	4.6 - 6.0:1
<b>F Stop</b>	2.5	2.5 - 2.9	2.6	2.6 - 3.5	2.0 - 2.3	1.7 - 2.6	2.0 - 2.6	2.0	2.0 - 2.9
<b>Lens Shift</b>	8:1 - 1:8	8:1 - 1:8	1:1	10:0 - 0:10	10:0 - 0:10	8:1 - 1:8	8:1 - 1:8	8:1 - 1:8	8:1 - 1:8
<b>Weight</b>	42.8 lbs	5.5 lbs	6.6 lbs	2.7 lbs	4.2 lbs	8.2 lbs	4.2 lbs	8.4 lbs	6.8 lbs