

Major Options

Optional Lenses						
Lens Type	Short Fixed Lens	Short Zoom Lens	Short Zoom Lens	Standard Zoom Lens	Long Zoom Lens	Long Zoom Lens
Part Number	LNS-W52	LNS-W51	LNS-W50	LNS-S50	LNS-T50	LNS-T51
Image						
Zoom/ Focus	Fixed / motorised	x1.25 / motorised	x1.2 / motorised	x1.56 / motorised	x1.8 / motorised	x1.67 / motorised
Screen Size (")	50-200	50-600	50-600	50-600	50-600	50-600
Throw Ratio						
DHT100L	0.8:1	1.2-1.5:1	1.5-1.8:1	1.8-2.8:1	2.8-5.0:1	4.8-8.0:1
DET100L	0.9:1	1.3-1.6:1	1.6-1.9:1	1.9-3.1:1	3.0-5.0:1	5.2-8.6:1
F Value	2.0	2.3 - 2.7	2.0 - 2.1	2.0 - 2.6	2.0 - 2.9	2.3 - 3.2
Net Weight (Unit: kg (lb))	3.1 (6.8)	4.1 (9.0)	3.3 (7.3)	3.4 (7.5)	3.7 (8.2)	3.8 (8.4)
Lens Shift (DHT100L)	H1:H2 (approx)	1:1	6.65:-1 - -1:6.65	6.65:-1 - -1:6.65	6.65:-1 - -1:6.65	6.65:-1 - -1:6.65
W1:W2 (approx)	1:1	10.7:1 - 1:10.7	10.7:1 - 1:10.7	10.7:1 - 1:10.7	10.7:1 - 1:10.7	10.7:1 - 1:10.7
Lens Shift (DET100L)	H1:H2 (approx)	1:1	21:-1 - -1:21	21:-1 - -1:21	21:-1 - -1:21	21:-1 - -1:21
W1:W2 (approx)	1:1	19:1 - 1:19	19:1 - 1:19	19:1 - 1:19	19:1 - 1:19	19:1 - 1:19

PDG-DHT100L Throw distance (Unit:m (ft))												
Part Number	LNS-W52	LNS-W51		LNS-W50		LNS-S50		LNS-T50		LNS-T51		
	Fixed	Wide	Tele	Wide	Tele	Wide	Tele	Wide	Tele	Wide	Tele	
50"	0.86(2.81)	1.3(4.2)	1.6(5.3)	1.6(5.3)	2.0(6.4)	1.9(6.4)	3.1(10.2)	3.0(9.9)	5.6(18.2)	5.4(17.8)	8.9(29.2)	
60"	1.04(3.41)	1.5(5.1)	2.0(6.4)	1.9(6.4)	2.4(7.7)	2.4(7.7)	3.7(12.3)	3.7(12.0)	6.7(22.0)	6.5(21.2)	10.7(35.0)	
70"	1.22(4.01)	1.8(6.0)	2.3(7.6)	2.3(7.6)	2.8(9.1)	2.8(9.1)	4.4(14.4)	4.3(14.1)	7.8(25.7)	7.5(24.7)	12.4(40.7)	
80"	1.41(4.61)	2.1(6.9)	2.7(8.7)	2.6(8.6)	3.2(10.4)	3.2(10.4)	5.0(16.5)	4.9(16.2)	9.0(29.5)	8.6(28.1)	14.2(46.5)	
100"	1.77(5.82)	2.7(8.7)	3.3(11.0)	3.3(10.9)	4.0(13.1)	4.0(13.1)	6.3(20.7)	6.2(20.3)	11.3(36.9)	10.7(35.0)	17.5(58.0)	
150"	2.69(8.82)	4.0(13.2)	5.1(16.6)	5.0(16.4)	6.0(19.8)	6.0(19.8)	9.5(31.2)	9.4(30.7)	17.0(55.8)	15.9(52.2)	26.5(86.8)	
200"	3.60(11.83)	5.4(17.8)	6.8(22.3)	6.7(22.0)	8.1(26.5)	8.1(26.6)	12.7(41.7)	12.5(41.1)	22.7(74.4)	21.2(69.4)	35.3(115.7)	
250"	-	6.8(22.3)	8.5(27.9)	8.4(27.6)	10.1(33.2)	10.1(33.3)	15.9(52.2)	15.7(51.5)	28.4(93.1)	26.4(86.6)	44.0(144.5)	
300"	-	8.2(26.8)	10.2(33.6)	10.1(33.2)	12.2(39.9)	12.2(40.0)	19.1(62.7)	18.9(61.9)	34.1(111.8)	31.7(103.9)	52.8(173.8)	

PDG-DET100L Throw distance (Unit:m (ft))												
Part Number	LNS-W52	LNS-W51		LNS-W50		LNS-S50		LNS-T50		LNS-T51		
	Fixed	Wide	Tele	Wide	Tele	Wide	Tele	Wide	Tele	Wide	Tele	
50"	0.84(2.77)	1.3(4.2)	1.6(5.3)	1.6(5.2)	1.9(6.4)	1.9(6.3)	3.1(10.1)	3.0(9.9)	5.5(18.1)	5.4(17.6)	8.9(29.0)	
60"	1.03(3.36)	1.5(5.1)	2.0(6.4)	2.0(6.6)	2.6(8.7)	2.6(8.6)	4.3(14.2)	3.6(11.9)	6.9(22.5)	6.4(21.0)	10.6(34.7)	
70"	1.21(3.96)	1.8(6.0)	2.3(7.5)	2.4(7.8)	3.1(10.2)	3.1(10.1)	5.1(16.6)	4.3(14.0)	8.0(26.2)	7.5(24.5)	12.3(40.5)	
80"	1.39(4.56)	2.1(6.9)	2.6(8.7)	2.7(8.9)	3.5(11.6)	3.5(11.6)	5.8(19.0)	4.9(16.1)	9.1(29.9)	8.5(27.9)	14.1(46.2)	
100"	1.75(5.76)	2.6(8.7)	3.3(10.9)	3.4(11.2)	4.5(14.6)	4.4(14.6)	7.3(23.9)	6.2(20.2)	11.4(37.3)	10.6(34.7)	17.6(57.6)	
150"	2.67(8.75)	4.0(13.2)	5.0(16.5)	5.2(17.0)	6.7(22.1)	6.7(22.0)	10.9(35.9)	9.3(30.5)	17.0(55.8)	15.8(51.9)	26.3(86.1)	
200"	3.58(11.74)	5.4(17.6)	6.8(22.2)	6.9(22.8)	9.0(29.5)	9.0(29.5)	14.6(48.0)	12.4(40.8)	22.6(74.3)	21.0(69.0)	35.0(114.7)	
250"	-	6.8(22.1)	8.5(27.8)	8.7(28.5)	11.3(36.9)	11.2(36.9)	18.3(60.1)	15.6(51.2)	28.3(92.7)	26.2(86.1)	43.7(143.2)	
300"	-	8.1(26.6)	10.2(33.4)	10.1(33.3)	13.5(44.4)	13.5(44.3)	22.0(72.1)	18.7(61.5)	33.9(111.2)	31.5(103.2)	52.4(173.8)	

Specifications		
Model name	PDG-DHT100L	PDG-DET100L
Panel	0.95" HD DLP® chip x 1	0.95" DMD chip x 1
No. of pixels	2,073,600 (1920x1080 dots)	1,470,000 (1400x1050 dots)
Projection lamp	VIDI™ UHP 330W x 2	VIDI™ UHP 330W x 2
Brightness (typical)*1	6,500 lm (with LNS-S50, "Dynamic" mode, DynamicBlack™ off)	7,500 lm (with LNS-S50, "Dynamic" mode, DynamicBlack™ off)
Contrast *1	7,500:1 (with DynamicBlack™ High)	7,500:1 (with DynamicBlack™ High)
Uniformity *1	90 % (corner to center)	90 % (corner to center)
Image setting	Lens shift Vertical : 6.65:-1 ~ -1:6.65 Horizontal: 10.7:1 - 1:10.7 Digital Keystone :U/D/R/L	Lens shift Vertical : 21:1 ~ -1:21 Horizontal: 19:1 - 1:19 Digital Keystone :U/D/R/L
Optional lens	LNS-W52 / W51/W50 / S50 / T50 / T51 (Throw ratio: 0.8, 1.2 ~ 8.0)	LNS-W52 / W51/W50 / S50 / T50 / T51 (Throw ratio: 0.87, 1.30-8.63)
Color wheels	6 seg RGBCMY for rich color reproduction x 2 (provided as enclosed accessory) 4 seg RGBW for high brightness x 2	6 seg RGBCMY for rich color reproduction x 2 (provided as enclosed accessory) 4 seg RGBW for high brightness x 2
Other Features	-Picture in Picture & Picture by Picture -Mechanical lens shutter -DynamicBlack™ (auto iris according to image) -BrilliantColor™ -VIDI™ lamp variable illumination -Full 10bit circuit -Auto picture control -Color management	-DICOM simulation -Picture in Picture & Picture by Picture -Mechanical lens shutter -DynamicBlack™ (auto iris according to image) -BrilliantColor™ -VIDI™ lamp variable illumination -Full 10bit circuit -Auto picture control -Color management
Signal Terminal	Input 1: RGB (D-Sub15), DVI-D (HDCP), HDMI (v1.3 with Deep Color) Input 2: RGBHV,Y, Pb/ Cb, Pr/ Cr, Video (BNC), S-Video Input 3: Detachable terminal for system up Input 4: Detachable terminal (NETWORK POA-MD13NET2) Output: RGB(D-sub15)→Analog input only	Input 1: RGB (D-Sub15), DVI-D (HDCP), HDMI (v1.3 with Deep Color) Input 2: RGBHV,Y, Pb/ Cb, Pr/ Cr, Video (BNC), S-Video Input 3: Detachable terminal for system up Input 4: Detachable terminal (NETWORK POA-MD13NET2) Output: RGB(D-sub15)→Analog input only
Control Port	RJ-45 wired LAN (POA-MD13NET2) D-sub9pin (RS232C) In/ Out. Wired R/ C (Option: 98.4' long cable compatible)	RJ-45 wired LAN (POA-MD13NET2) D-sub9pin (RS232C) In/ Out. Wired R/ C (Option: 98.4' long cable compatible)
Audio	None	None
Input signal	WUXGA/ UXGA/ WSXGA+ / SXGA+ / SXGA / WXGA / XGA / SVGA / VGA / MAC, 1080p - 24/ 25/ 30/ 48/ 50/ 60, 1080psf - 24/ 25/ 30, 1080 i-50/ 60, 720p - 50/ 60/ 575p/ 480p/ 575i/ 480i (depend on input)	WUXGA/ UXGA/ WSXGA+ / SXGA+ / SXGA / WXGA / XGA / SVGA / VGA / MAC, 1080p - 24/ 25/ 30/ 48/ 50/ 60, 1080psf - 24/ 25/ 30, 1080 i-50/ 60, 720p - 50/ 60/ 575p/ 480p/ 575i/ 480i (depend on input)
Color systems	PAL/ SECAM/ NTSC/ NTSC4.43/ PAL-M/ N	PAL/ SECAM/ NTSC/ NTSC4.43/ PAL-M/ N
Scanning frequency	H/V sync 15 ~ 120 kHz/ 48 ~ 120 Hz Dot clock 230 MHz	H/V sync 15 ~ 120 kHz/ 48 ~ 120 Hz Dot clock 230 MHz
Fan Noise	36 dB (Eco1)	36 dB (Eco1)
Voltage	100 - 120 V/ 200 ~ 240 V AC (auto voltage)	100 - 120 V/ 200 ~ 240 V AC (auto voltage)
Dimensions (W x H x D)	400.0 x 242.5 x 523.5 mm (15.8 x 9.6 x 20.6")	400.0 x 242.5 x 523.5 mm (15.8 x 9.6 x 20.6")
Weight	19.8 kg (43.7 lb)	19.8 kg (43.7 lb)
Power Consumption	100 V : 846 W (Stand by : 28.5W), 200 V : 794W (Stand by : 27.8 W)	100 V : 848 W (Stand by : 28.5W), 200 V : 794W (Stand by : 27.8 W)
Main Accessories	Rich color reproduction color wheel x 2 (High Brightness color wheel x 2 are installed in projector at shipping), Wireless (wired incl) remote control x 1 (AA battery x 2) Cable cover 1-type (support cover x 1, cover x 1), Cable tie for fixed cable x 3 Removable power cord x 1, Fixing bracket for power cord x 1, Ferrite core (for LAN cable) x 1, Computer cable (D-sub type) x 1, Real Color Manager Pro (CD-ROM), Owners manual (CD-ROM) Lens hole cover x 1, PIN code-locking seal x 1	Rich color reproduction color wheel x 2 (High Brightness color wheel x 2 are installed in projector at shipping), Wireless (wired incl) remote control x 1 (AA battery x 2) Cable cover 1-type (support cover x 1, cover x 1), Cable tie for fixed cable x 3 Removable power cord x 1, Fixing bracket for power cord x 1, Ferrite core (for LAN cable) x 1, Computer cable (D-sub type) x 1, Real Color Manager Pro (CD-ROM), Owners manual (CD-ROM) Lens hole cover x 1, PIN code-locking seal x 1

\*1 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. \* Replacement lamp type POA-LMP130 \* 'DLP' and 'DynamicBlack' are registered trademarks of Texas Instruments.  
\* All product names and company names are trademarks or registered trademarks of their respective

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

Option Board

DVI/ D-sub module	POA-MD23ADI
5BNC/ VIDEO module	POA-MD25VD3
DVI module	POA-MD18DVI
5BNC module	POA-MD16VD1
Network module	POA-MD13NET2(After Ver.4.404)
HD & SD-SDI module (SD-SDI not compatible)	POA-MD17SDID
HD DATA WIRELESS receiver board	POA-MD26HDWL (for PDG-DHT100L)
D-sub15 module	POA-MD04VGA
Warp & Blending	POA-MD21WARP (for PDG-DET100L)

Terminals

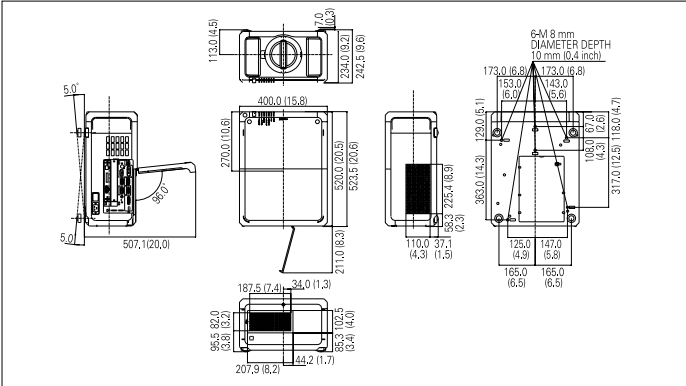


Transmitter

POA-HDTM01 (for PDG-DHT100L)



External dimensions (unit: mm (inch))



Think GAIA

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Multimedia Projector

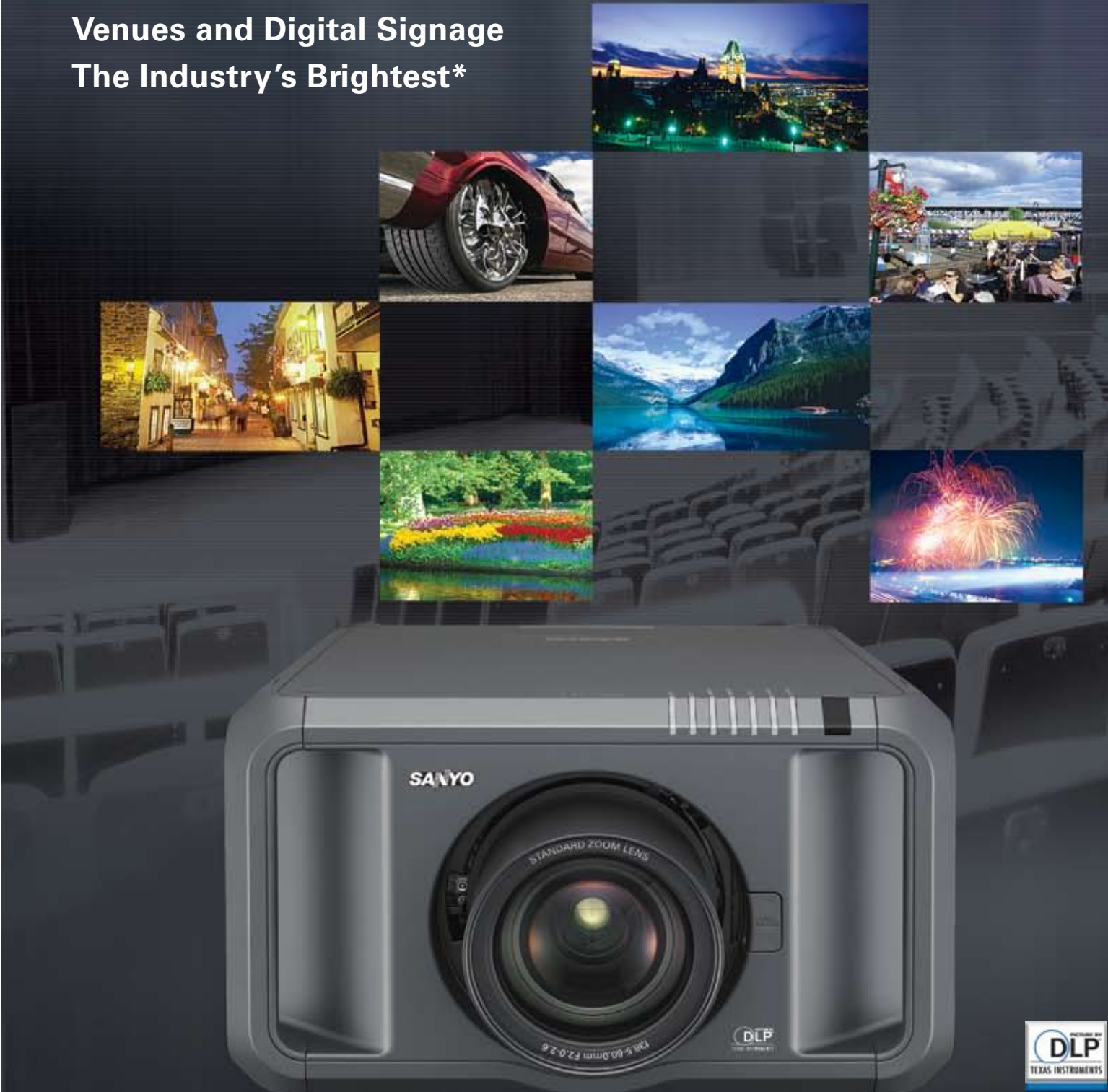
PDG-DHT100L

PDG-DET100L

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\*As of the scheduled release date of May 29, 2009, for 2 lamp, SXGA+/Full HD, 1 chip DLP® projector.



# Advanced Technologies for Professional Use. Superb Image Expression with Flexible Installation and Easy Maintenance.

## Higher Brightness and Superior Images

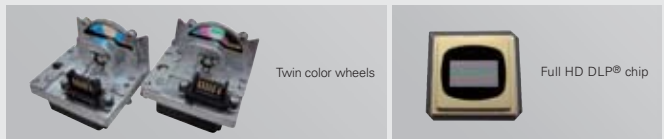
### True Full HD Resolution

The PDG-DHT100L employs a DMD panel (16:9 aspect ratio). With 1,920 x 1,080 pixels in the panel, the PDG-DHT100L can project native HDTV 1080p signals in full resolution. DMD Panel helps convey the ambience in a scene with such exceptional fidelity. Full HD goes beyond conventional technology to reproduce images that are vibrantly alive and rich in emotion.

### Industry's Brightest\*1 7,500 lumens and Rich Color Reproduction

A twin color wheel system makes it possible to achieve both high brightness and high color reproduction that is accurate in image signal. In addition, the user can change color wheel to fit the application. The 4-segment color wheels team up with two high-output 330-watt lamps to achieve up to 7,500 lumens\*1 of brightness in our 2-lamp, SXGA+, 1-chip DLP® projector. Or you can choose the 6-segment color wheels for even richer, purer color reproduction.

\*1 As of the time of sales at the end of May 2009 for 2-lamp, SXGA+, 1-chip DLP® projectors.  
\*PDG-DHT100L is 6,500 lumens



### High Contrast 7500:1

This advanced optical system achieves high contrast\*2 to project high-quality images with rich black reproduction, maximizing the quality of the video signals.



## Network Control

### HD\*3 DATAWIRELESS

The Uncompressed HD\*3 DATA WIRELESS Transmission System allows pure uncompressed data transmission without delays between the video and sound. Technology in wireless system allows uncompressed data even from distances of about 100 feet\*4 away from the input source. Easier set-up for place such as large event halls and other large rooms/theaters as it eliminates the need to feed cables and run wires from sources to projectors.

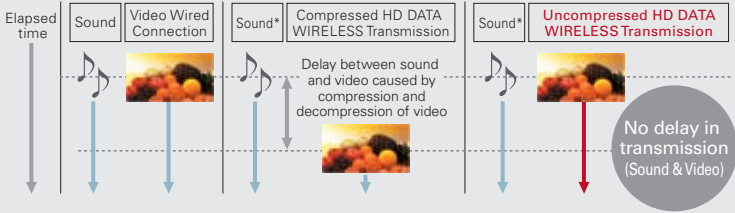


### HD Wireless Transmission

System is sold as optional accessory for PDG-DHT100L.

\*3 HD stands for high definition of 1080i or 720p \*4 Actual Distance is dependent of a variety of environmental conditions

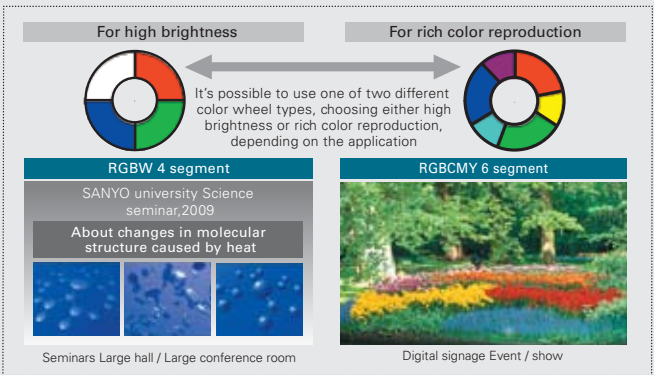
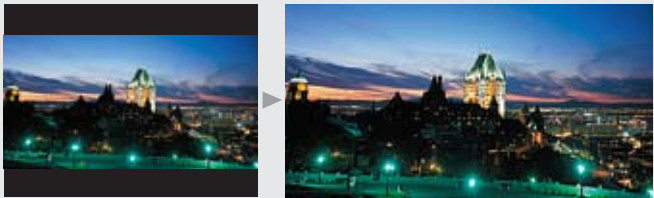
### No delay between Video and Sound



\*When using a separate amp speaker system other than sound out on projector  
\*The above is an image used only for explanation purposes

### Featuring the PJ-Net Organizer Board

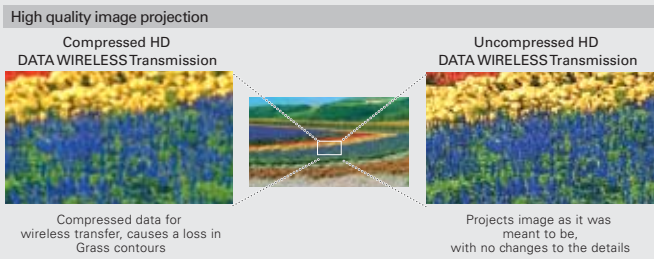
The PJ-Net Organizer board is provided as standard equipment, for centralized control of projectors over a wired network. Installing the optional PJ Master into a PC or server also lets you control the PJ-Net Organizer-mounted projectors over a network.



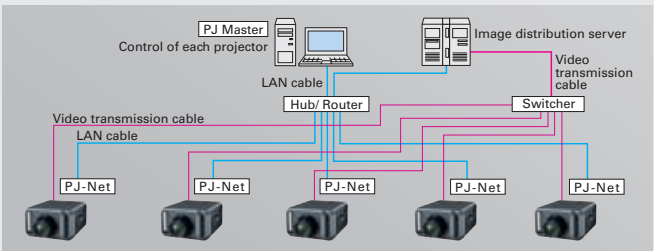
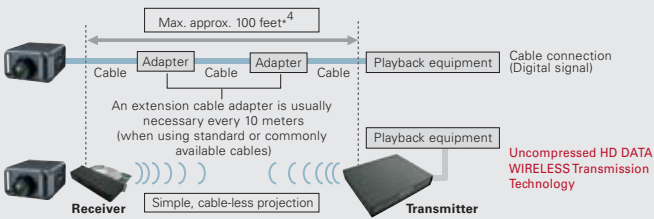
### DICOM Simulation Mode

PDG-DET100L allows DICOM\*1 simulation mode\*2 and which can approximate an image to DICOM Part14 Grayscale Standard Display Function. This mode offers Clearbase and Bluebase DICOM simulation modes, and is helpful for use in medical institutions and education.

\*1 Medical Imaging and Communications in Medicine (DICOM) is standard in medical imaging.  
\*2 Do not use for medical diagnosis.



### Transmit Up to 100 feet\*2 Wirelessly



## Easy Maintenance

### The Industry's longest-lasting\*5 35,000 hour-use filter 'Active Maintenance Filter', for cleaner and highly durable projection

Equipped with replaceable 'Active Maintenance Filter' for the Industry's longest lasting\*5 35,000 hour-use automatic reel filter cartridge to prevent dust from entering the lamp area, while still allowing enough airflow to help the area to remain cool longer durability and reliability from the increased dust resistance and longer lasting filters.

\*5 As of the time of sales at the end of May 2009 (when in Eco1 mode, Based on JIS D-0207 accelerated testing environment conditions) \*25,000 hour-use (when in Normal mode, Based on JIS D-0207 accelerated testing environment conditions)

### Equipped with new, dust-resistant sealed optical engine

New, improved sealed optical engine cooling design prevents dust build up, maintaining optimal brightness and contrast, problems that traditionally are difficult to overcome, causing reductions in projection quality Improved air control for more flexibility in using the projector in a variety of environments.

### One-way Flow System

The PDG-DHT100L/DET100L is concentrated into one intake and one exhaust, both on the side, to solve dust-related problems and improve cooling reliability.

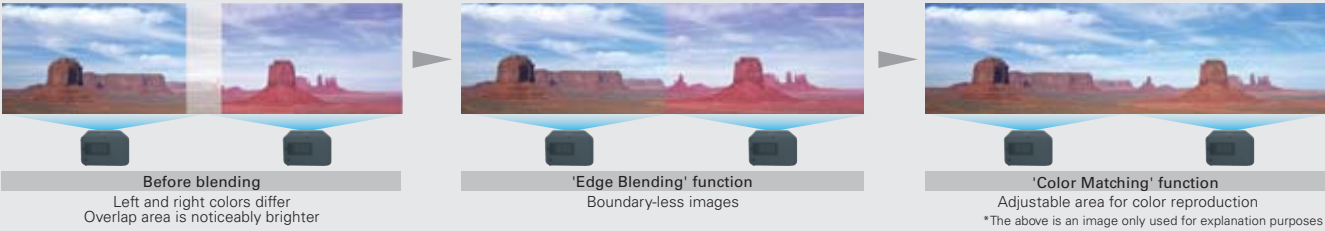


## Versatile Installation

### Edge Blending & Color Matching

Equipped with "Edge Blending" function that allows what feels like boundary-less images with multi-image display possibilities Built-in "Color Matching" function correcting variations in color reproduction when using more than one projector.

'Edge Blending' function allows what feels like boundary-less images with multi-image display possibilities



### Power Lens Shift

Featuring both vertical and horizontal lens shift (vertical: 67%, horizontal: 41% (maximum), the PDG-DHT100L enables intuitive operation for easy on-site setup. The lens shifts back to the center by pressing a lens shift button.

### Interchangeable Lenses

Lens removal and attachment are also very easy.

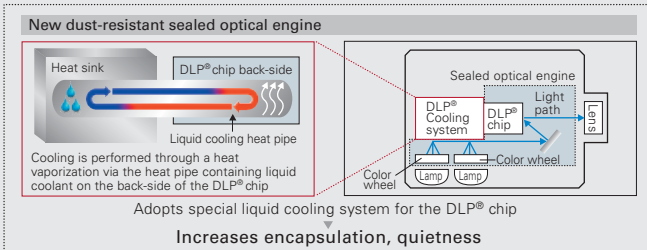
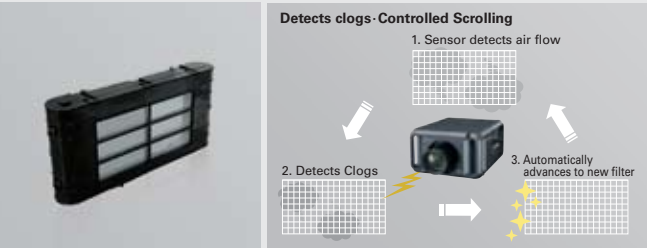
## Useful Features

- There is also a Mechanical Shutter System which is popular for a variety of elite professional uses. The amazing PDG-DHT100L/DET100L fill the needs of a host of demanding business venues including meeting, entertainment and promotional applications. It's a super nova in a star-studded selection of SANYO Portable projectors.

- "Lens center layout" symmetrical design
- Full light-up Control Panel & Remote Control



6,500/7,500 lm Full HD/SXGA+ Projectors  
**PDG-DHT100L/DET100L**



### Easier Replacement

Lamp and Twin Color Wheel replacement has been simplified to make maintenance easier. Easy removal and replacement of the lamp from the top.



### Vertical Tilt Angel Projection

Realizes vertical 360 degree tilt angle projection allowing projection positions from the ceiling or floor, breaking from traditional projection settings.

### Picture-in-Picture mode and Picture-by-Picture mode

Capable of projecting two images simultaneously either using built-in picture-in-picture mode or picture-by-picture mode.

