LCD Projectors

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Specifications

Model name		CP-EX5001WN	CP-EW5001WN	CP-EU4501WN
Display system		3LCD		
Display device	Size of effectivedisplay area	0.63" aspect ratio 4 : 3	0.59" aspect ratio 16 : 10	0.64" aspect ratio 16 : 10
	Number of pixels	786,432 pixels H : 1024 × V : 768 (XGA)	1,024,000 pixels H : 1280 × V : 800 (WXGA)	2,304,000 pixels H : 1920 × V : 1200 (WUXGA)
Lens (option)	Zoom	Manual × 1.6		
	Focus	Manual		
Light source		280 W Lamp		
Screen size		30 - 300 inch		
Light output (Brightness)		5,200 lm	5,000 lm	4,500 lm
Contrast ratio (full white / full black)		16,000 : 1		
Speaker		16W		
Displayable scanning frequency	Horizontal	15k ~ 106 kHz		
	Vertical	24 ~ 120 Hz		
Display resolution	Computer	VGA / SVGA / XGA / WXGA / SXGA / SXGA+*1 / HD / UXGA / WUXGA*2		
	Video	NTSC, PAL (B,G,D,H,I) , SECAM, PAL (M,N) , NTSC4.43, PAL60		
Terminals	COMPUTER IN 1	Mini D-sub 15-pin connector × 1		
	COMPUTER IN 2 / MONITOR OUT	Mini D-sub 15-pin connector × 1		
	VIDEO IN	RCA connector × 1		
	HDMI IN	HDMI (HDCP compliant) × 2, (HDMI 1 shared with MHL (Ver1.4))		
	AUDIO IN	3.5mm stereo mini connector × 2, RCA connector L / R × 1		
	AUDIO OUT	3.5mm stereo mini connector × 1		
	CONTROL IN (RS-232C)	D-sub 9-pin connector × 1		
	LAN	RJ-45 connector × 1		
	USB-A	USB type A × 2 (PC less Presentation or USB Wireless Adapter)		
	USB-B	USB type B × 1 (USB display,or USB mouse control)		USB type B × 1 (USB mouse control)
Operating temperature		5 - 35°C		
Operating humidity		10 - 90%RH		
Power requirements	AC 100V-120V (50/60Hz)	4.1A		4.3A
	AC 220V-240V (50/60Hz)	2.0A		2.1A
Power consumption	AC 100V-120V (50/60Hz)	400W		410W
	AC 220V-240V (50/60Hz)	390W		400W
Standby mode power consumption		Less than 0.35W at saving mode*3		
Dimension (W × H × D)		413 × 123 × 315mm, 407 × 108 × 312mm (Excluding protrusions)		
Weight		Approx. 5.2kg (11.5 lbs)		Approx. 5.3kg (11.7lbs)
Accessories		Power Cable, Computer Cable, Remote controller with two AA batteries, Adapter Cover (for USB Wireless Adapter), Security Label, User's manual (Book, CD) , Lens cover, Application CD, HDMI cable holder, Cable tie		
Optional parts	USB Wireless Adapter	USB-WL-11N*4		USB-WL-5G*4
		Lamp : DT02061, Filter set : UX41161 HAS-9110 (Bracket for fixing mount), HAS-104S (Slim adapter for fixing mount), HAS-204L (Standard adapter for fixing mount), HAS-304H (Long adapter for fixing mount)		

*1 Only for CP-EX5001WN. *2 Only for CP-EW5001WN, CP-EU4501WN. *3 SAVING mode disables the functions of MONITOR OUT, AUDIO OUT, speaker sound, network communication, RS-232C control except POWER ON command, etc. in standby. *4 The availability of the USB wireless adapter varies depending on the country and the region.

Dimensions

315mm
123mm
413mm
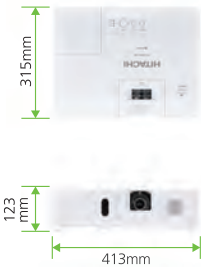
Terminals

(1) HDMI IN 1
(2) HDMI IN 2 / MHL
(3) COMPUTER IN 1
(4) COMPUTER IN 2 / MONITOR OUT
(5) VIDEO IN   (6) AUDIO IN
(7) AUDIO OUT
(8) USB-A
(9) USB-B
(10) LAN
(11) CONTROL

(8) (9)(1) (2) (3) (4)
(10)
(11) (5) (6) (7)

Environment

► **Compliance with EU Directive RoHS*1**
► **Reduction of resin usage in production**
Use of hot runners in molds for making upper housing in order to reduce mill ends.
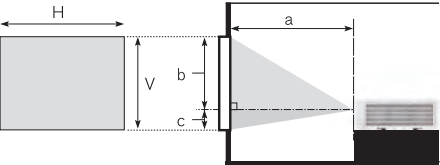► **Power saving mode engaged during standby**
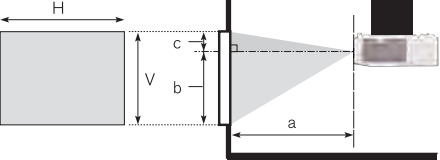► **Eco mode** Eco mode provides power saving.

*1
RoHS is the acronym of "Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment".

—Design and specifications are subject to change without notice.

dnx pixelworks™

Projection Distance

On a horizontal surface

H   a
V   b
     c

Suspended from the ceiling

H
     c
V   b
     a

H x V : Screen size
a : Projection distance (from the projector's front panel to screen. Tolerance ±10%)
b : Screen height from lens center to top (when installed on a horizontal surface)
c : Screen height from lens center to bottom (when installed on a horizontal surface)

CP-EX5001WN 4 : 3 screen

Screen type	Screen size				Projection distance				a	Screen height			
	H		V		min.		max.			b		c	
(inch)	m	inch	m	inch	m	inch	m	inch		cm	inch	cm	inch
60	1.2	48	0.9	36	1.6	65	2.7	106		76	30	15	6
80	1.6	64	1.2	48	2.2	87	3.6	143		102	40	20	8
100	2.0	80	1.5	60	2.8	110	4.6	180		127	50	25	10
120	2.4	96	1.8	72	3.4	133	5.5	217		152	60	30	12
150	3.0	120	2.3	90	4.2	167	6.9	272		191	75	38	15
200	4.1	160	3.0	120	5.7	224	9.2	363		254	100	51	20

CP-EW5001WN 16 : 10 screen

Screen type	Screen size				Projection distance				a	Screen height			
	H		V		min.		max.			b		c	
(inch)	m	inch	m	inch	m	inch	m	inch		cm	inch	cm	inch
60	1.3	51	0.8	32	1.7	69	2.9	113		73	29	8	3
80	1.7	68	1.1	42	2.4	93	3.9	152		97	38	11	4
100	2.2	85	1.3	53	3.0	117	4.8	191		121	48	13	5
120	2.6	102	1.6	64	3.6	141	5.8	230		145	57	16	6
150	3.2	127	2.0	79	4.5	177	7.3	288		182	72	20	8
200	4.3	170	2.7	106	6.0	238	9.8	385		242	95	27	11

CP-EU4501WN 16 : 10 screen

Screen type	Screen size				Projection distance				a	Screen height			
	H		V		min.		max.			b		c	
(inch)	m	inch	m	inch	m	inch	m	inch		cm	inch	cm	inch
60	1.3	51	0.8	32	1.6	63	2.6	104		70	28	10	4
80	1.7	68	1.1	42	2.2	86	3.6	140		94	37	14	5
100	2.2	85	1.3	53	2.7	108	4.5	176		117	46	17	7
120	2.6	102	1.6	64	3.3	130	5.4	212		141	55	21	8
150	3.2	127	2.0	79	4.2	164	6.8	266		176	69	26	10
200	4.3	170	2.7	106	5.6	220	9.1	357		234	92	35	14

Multifunctional model suitable for use in large classrooms including university classrooms and conference rooms

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3LCD
AMX DEVICE DISCOVER
CRESTRON connected

CP-EX5001WN
CP-EW5001WN
CP-EU4501WN

*Projected images are simulations

CP-EX5001WN
`XGA` 5,200lm

## CP-EW5001WN
`WXGA` 5,000lm

CP-EU4501WN
`WUXGA` 4,500lm

High Image Quality
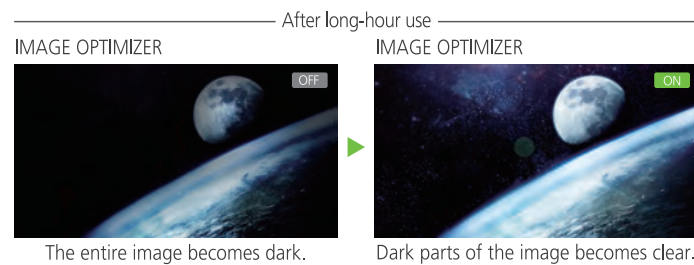
ACCENTUALIZER and HDCR

ACCENTUALIZER makes pictures look more real by enhancing shade, sharpness, and gloss, to make pictures clearer. The HDCR function corrects blurred images caused by room lighting or outside light sources and creates an effect similar to increasing contrast resulting in clear images even in bright rooms.

Bright room ——— ACCENTUALIZER , HDCR **OFF**

Bright room ——— ACCENTUALIZER , HDCR **ON**
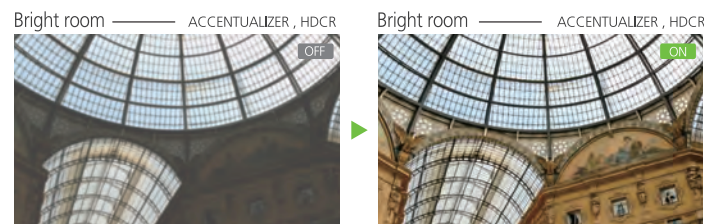
Image Optimizer

Equipped with IMAGE OPTIMIZER that maintains visibility of an image through automatic image correction in accordance with lamp consumption.

* This function may not work properly when HDCR/ACCENTUALIZER is ON.

——— After long-hour use ———

IMAGE OPTIMIZER **OFF**

The entire image becomes dark.

IMAGE OPTIMIZER **ON**

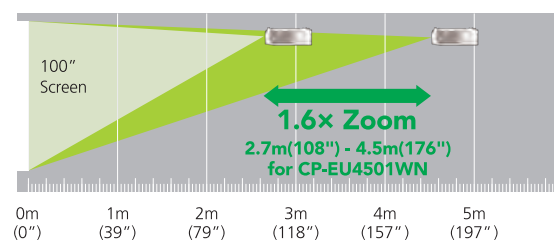Dark parts of the image becomes clear.

Convenient Functions

Perfect Fit

Equipped with Perfect Fit with which the position of four corners and four sides of a projected image can be adjusted. With the remote controller at hand, you can quickly correct the distorted image such as pincushion or barrel.
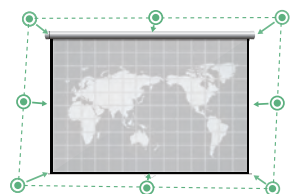
1.6× Zoom Lens

Featuring a powerful 1.6× manual zoom lens, the projectors allow for a greater range of installation possibilities.

100" Screen

1.6× Zoom
2.7m(108") - 4.5m(176")
for CP-EU4501WN

| 0m (0") | 1m (39") | 2m (79") | 3m (118") | 4m (157") | 5m (197") |

MHL® connectivity

The projectors' HDMI2 input terminal supports the MHL (Mobile High-Definition Link). This feature allows you to mirror the screen of your MHL-enabled smartphone / tablet on a projected screen.
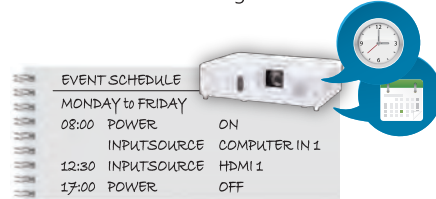
MHL Cable

2 HDMI inputs

Equipped with 2 HDMI input terminals for the current widely-used interface.

HDMI1
HDMI2
PC
Document Camera
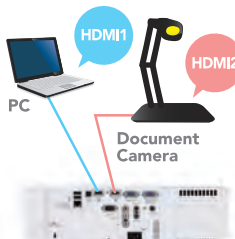
Easy Schedule Setting

You can schedule routine and special projector events, including power on, power off, input selection and other settings.

EVENT SCHEDULE
MONDAY to FRIDAY
08:00   POWER   ON
            INPUTSOURCE   COMPUTER IN 1
12:30   INPUTSOURCE   HDMI 1
17:00   POWER   OFF

Network Function / Capability

Wireless Capability (Option)

The Projector is capable of a wireless network with the optional USB wireless adapter that supports IEEE802.11b/g/n. You can control the projector with a computer via the network, and also project the screen of the computer on which the LiveViewer software is installed.

Without an access point

With an access point
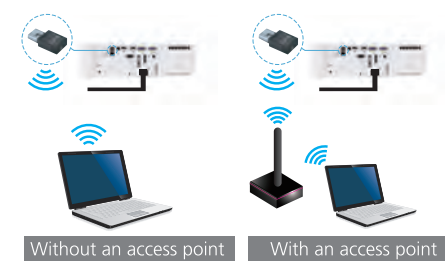
Multi Projector*1

You can project the same image from up to 12*2 projectors simultaneously. This is useful for meetings and lectures in large venues where a single screen would not be sufficient.

projector1
projector2
projector3
projector12
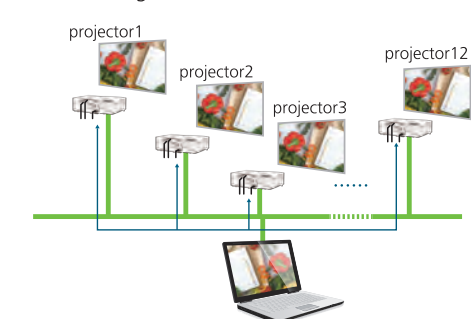
Moderator Control Mode*1

Setting one computer from the multiple computers (up to 50*3) that are connected to the projector as the moderator (host) makes it possible for the moderator to project the image from all the computers (clients).

Computer1 (Client)
Computer2 (Client)
Computer3 (Client)
Computer49 (Client)
Moderator (Host)
Projector
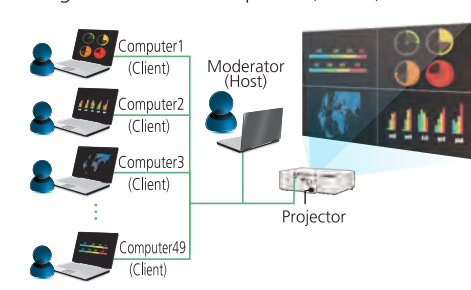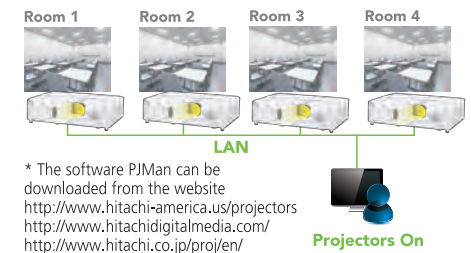
Projector Quick Connection

You can project images, documents, photos from a tablet or a smartphone on which Projector Quick Connection, the dedicated online application software developed by Hitachi, has been installed. The software allows you to control the projector with the devices.

*See the Hitachi website for details
http://www.hitachi.co.jp/proj/en/apps/pj_connection.html

Projector Monitoring and Control from a Remote Location

Hitachi's Projector Management Software (PJMan) gives you the ability to control, diagnose and manage (monitor the status including power, lamp hours, and temperature and air filter conditions) a single or group of Hitachi projectors.

Room 1   Room 2   Room 3   Room 4

LAN

* The software PJMan can be downloaded from the website
http://www.hitachi-america.us/projectors
http://www.hitachidigitalmedia.com/
http://www.hitachi.co.jp/proj/en/

Projectors On

Email Alerts

E-mail notification is sent for routine maintenance and error conditions.

Room 1   Room 2

Room 3   Room 4

E-mail

LAN
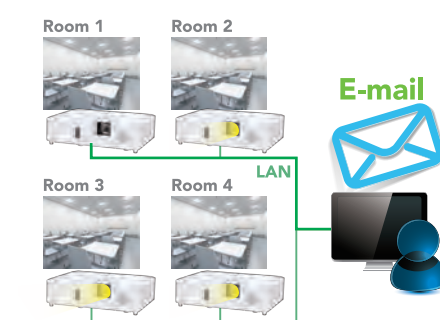
*1 To secure better performance, a wired network is preferable. Required to install the LiveViewer software from the bundled CD-ROM on all the computers. The functions are supported by LiveViewer (Windows® application) only.
*2 Image transfer speed may vary depending on number of projectors connected. *3 Image and audio transfer speed may vary depending on number of computers connected.

High Reliability

Hybrid Filter

The Hybrid Filter requires less frequent maintenance and cleaning , making 20,000hr of operation possible* operation possible.

*This is an estimate of the acceleration test performed under the condition of 50mg/m³ suspension dust concentration using JIS (Japanese Industrial Standards) standard powder. Cleaning intervals vary depending on the use environment.

3LCD chips with Inorganic Alignment Layers

LCD(HTPS)

Prism
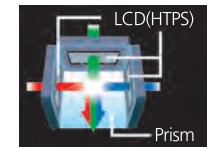
HTPS (High Temperature Poly-Silicon)

These Hitachi LCD projectors incorporate three LCD panels with inorganic alignment layers that are extremely light resistant, increasing brightness and contrast ratio. They provide smooth images and high reliability.