LCD Projectors

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Specifications

Model name		CP-X4042WN	CP-X3042WN	CP-X2542WN	CP-WX4042WN	CP-WX3042WN	CP-EX302N	CP-EX252N	CP-EW302N	CP-EX402	CP-EX302	CP-EX252	CP-EW302
Display system		3LCD					3LCD			3LCD			
Display device	Size of effective display area	0.63", aspect ratio 4:3			0.59", aspect ratio 16:10		0.63", aspect ratio 4:3		0.59", aspect ratio 16:10	0.63", aspect ratio 4:3			0.59", aspect ratio 16:10
	Number of pixels	786,432 pixels H : 1024 x V : 768 (XGA)			1,024,000 pixels H : 1280 x V : 800 (WXGA)		786,432 pixels H : 1024 x V : 768 (XGA)		1,024,000 pixels H : 1280 x V : 800 (WXGA)	786,432 pixels H : 1024 x V : 768 (XGA)			1,024,000 pixels H : 1280 x V : 800 (WXGA)
Lens	Zoom	Manual : x1.2					Manual : x1.2			Manual : x1.2			
	Focus	Manual					Manual			Manual			
Light source		225W lamp					225W lamp			225W lamp			
Screen size		30 - 300inch					30 - 300inch			30 - 300inch			
Light output (Brightness)		4,200lm	3,200lm	2,700lm	4,000lm	3,000lm	3,200lm	2,700lm	3,000lm	4,200lm	3,200lm	2,700lm	3,000lm
Contrast ratio (full white/full black)		10,000 : 1					2,000 : 1			2,000 : 1			
Speaker		16W x 1 mono					16W x 1 mono			1W x 1 mono			
Displayable scanning frequency	Horizontal	15 - 106kHz					15 - 106kHz			15 - 106kHz			
	Vertical	50 - 120Hz					50 - 120Hz			50 - 120Hz			
Display resolution	Computer	VGA, SVGA, XGA, WXGA, WXGA+, SXGA, SXGA+[1], WSXGA+[2], UXGA, Full HD, Mac 16"											
	Video	NTSC, NTSC4.43, PAL, SECAM, PAL-M, PAL-N, PAL(60Hz), 480i@60, 480p@60, 576i@50, 576p@50, 720p@50/60, 1080i@50/60, 1080p@50/60											
Terminals	COMPUTER IN	Mini-D-sub 15-pin connector x 2					Mini-D-sub 15-pin connector x 2			Mini-D-sub 15-pin connector x 2			
	MONITOR OUT	Mini-D-sub 15-pin connector x 1 (shared with COMPUTER IN2)					Mini-D-sub 15-pin connector x 1 (shared with COMPUTER IN2)			Mini-D-sub 15-pin connector x 1 (shared with COMPUTER IN2)			
	VIDEO IN	RCA connector x 1					RCA connector x 1			RCA connector x 1			
	HDMI IN	HDMI (HDCP compliant) x 2 *HDMI 2 supports MHL input.					HDMI (HDCP compliant) x1			HDMI (HDCP compliant) x1			
	AUDIO IN	3.5mm stereo mini connector x 2, 2RCA connector L/R x1					3.5mm stereo mini jack x 2, RCA jack L/R x1			RCA jack L/R x1			
	AUDIO OUT	3.5mm stereo mini connector x 1					3.5mm stereo mini jack x 1			RCA jack L/R x1			
	Microphone Input	3.5mm mono mini connector x 1					-			-			
	Control(RS232C)	D-sub 9-pin connector x 1					D-sub 9-pin connector x 1			D-sub 9-pin connector x 1			
	LAN	RJ45 connector x 1					RJ45 connector x 1			-			
	USB-A	USB type A x 2 (PC-LESS Presentation or Wireless LAN (option))					-			-			
	USB-B	USB type B x 1(USB display or USB mouse control)					USB type B x 1 (Used for Remote Control mouse)			-			
Operating temperature		5 - 35°C					5 - 35°C			5 - 35°C			
Operating humidity		10 - 90%RH (non-condensing)					10 - 90%RH (non-condensing)			10 - 90%RH (non-condensing)			
Power requirements		AC 100V - 120V (50 / 60Hz) : 3.4A AC 220V - 240V (50 / 60Hz) : 1.7A					AC 100V - 120V (50 / 60Hz) : 3.3A AC 220V - 240V (50 / 60Hz) : 1.6A			AC 100V - 120V (50 / 60Hz) : 320W AC 220V - 240V (50 / 60Hz) : 300W			
Power consumption		AC 100V - 120V (50 / 60Hz) : 330W AC 220V - 240V (50 / 60Hz) : 310W					AC 100V - 120V (50 / 60Hz) : 320W AC 220V - 240V (50 / 60Hz) : 300W			AC 100V - 120V (50 / 60Hz) : 320W AC 220V - 240V (50 / 60Hz) : 300W			
Standby mode power consumption		Less than 0.5W at saving mode					Less than 0.5W at saving mode			Less than 0.5W at saving mode			
Dimensions (W x H x D)		323 x 95 x 245mm (12.7" x 3.7" x 9.6") (Including protrusions) 320 x 85 x 245mm (12.6" x 3.3" x 9.6") (Excluding protrusions)					323 x 95 x 245mm (12.7" x 3.7" x 9.6") (Including protrusions) 320 x 85 x 245mm (12.6" x 3.3" x 9.6") (Excluding protrusions)			323 x 95 x 245mm (12.7" x 3.7" x 9.6") (Including protrusions) 320 x 85 x 245mm (12.6" x 3.3" x 9.6") (Excluding protrusions)			
Weight		Approx. 3.0kg (6.6lbs.)					Approx. 3.0kg (6.6lbs.)			Approx. 2.9kg (6.4lbs.)			
Accessories		Power cord (1.8m), Computer cable (2.0m), Remote control, AA batteries, Lens cover, Adapter cover, Security label, User's manuals (Book, CD), Application CD					Power cord (1.8m), Computer cable (2.0m), Remote control, AA batteries, Security label, User's manuals (Book, CD)			Power cord (1.8m), Computer cable (2.0m), Remote control, AA batteries, Security label, User's manuals (Book, CD)			
Option Parts		Lamp : DT01481 Filter set : UX38841 USB wireless adapter USB-WL-11N *3	HAS-304H (Fixing adapter for high ceilings) HAS-204L (Fixing adapter for low ceilings) HAS-EX300 (Bracket for ceiling mount)				Lamp : DT01481 Filter set : UX38841	HAS-304H (Fixing adapter for high ceilings) HAS-204L (Fixing adapter for low ceilings) HAS-EX300 (Bracket for ceiling mount)					

*1: Only for CP-X4042WN, CP-X3042WN, CP-X2542WN, CP-EX302N, CP-EX252N, CP-EX402, CP-EX302, CP-EX252   *2: Only for CP-WX4042WN, CP-WX3042WN, CP-EW302N, CP-EW302
*3: The availability of the USB-WL-11N varies depending on the country and the region.

Projection Distance

On a horizontal surface

Suspended from the ceiling

CP-X4042WN / CP-EX402 — 4:3screen (1,024 x 768) (±10%)

a Screen size (diagonal)		b Projection distance min.		max.		c1 Screen height		c2 Screen height	
type (inch)	m	m	inch	m	inch	cm	inch	cm	inch
60	1.5	1.8	70	2.1	84	78	31	13	5
80	2.0	2.4	94	2.9	113	105	41	17	7
100	2.5	3.0	118	3.6	142	131	51	22	9
120	3.0	3.6	142	4.3	170	157	62	26	10
150	3.8	4.5	177	5.4	214	196	77	33	13
200	5.1	6.0	237	7.3	286	261	103	44	17

CP-WX4042WN — 16:10screen (1,280 x 800) (±10%)

a Screen size (diagonal)		b Projection distance min.		max.		c1 Screen height		c2 Screen height	
type (inch)	m	m	inch	m	inch	cm	inch	cm	inch
60	1.5	1.9	74	2.3	89	75	30	6	2
80	2.0	2.5	99	3.0	120	100	39	8	3
100	2.5	3.2	125	3.8	150	125	49	10	4
120	3.0	3.8	150	4.6	181	150	59	12	5
150	3.8	4.8	188	5.8	227	188	74	14	6
200	5.1	6.4	252	7.7	303	250	98	19	8

CP-X3042WN / CP-X2542WN / CP-EX302N / CP-EX252N /CP-EX302 / CP-EX252 — 4:3screen (1,024 x 768) (±10%)

a Screen size (diagonal)		b Projection distance min.		max.		c1 Screen height		c2 Screen height	
type (inch)	m	m	inch	m	inch	cm	inch	cm	inch
60	1.5	1.8	70	2.1	84	78	31	13	5
80	2.0	2.4	94	2.9	113	105	41	17	7
100	2.5	3.0	118	3.6	142	131	51	22	9
120	3.0	3.6	142	4.3	170	157	62	26	10
150	3.8	4.5	177	5.4	213	196	77	33	13
200	5.1	6.0	237	7.2	285	261	103	44	17

CP-WX3042WN / CP-EW302N / CP-EW302 — 16:10screen (1,280 x 800) (±10%)

a Screen size (diagonal)		b Projection distance min.		max.		c1 Screen height		c2 Screen height	
type (inch)	m	m	inch	m	inch	cm	inch	cm	inch
60	1.5	1.9	74	2.3	89	75	30	6	2
80	2.0	2.5	99	3.0	120	100	39	8	3
100	2.5	3.2	125	3.8	150	125	49	10	4
120	3.0	3.8	150	4.6	181	150	59	12	5
150	3.8	4.8	188	5.7	226	188	74	14	6
200	5.1	6.4	251	7.7	302	250	98	19	8

Dimensions

245mm (9.6")
323mm(12.7")
320mm(12.6")
85mm (3.3")
95mm (3.7")

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.
► **Reduction of CO₂ emissions**
   Carton volume has been cut down to 65%[2], reducing CO$_2$ emissions during transport.
► **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".

*2
Compared to Hitachi CP-X2515WN network capable projector on the basis of one carton box.

—Design and specifications are subject to change without notice.
• The projected images and comparison photos in this catalog are simulations. • LCD panels, polarizers and other optical components and cooling fans may need replacement after prolonged usage. For more details, please consult a Hitachi sales representative. • Do not use in places where there is a lot of water, dampness, steam, dust, soot or tobacco smoke. This may result in fire or malfunction. • Optical components (lamp, LCD panel, polarizing plate, PBS [polarizer beam splitter]) have limited service lives. They must be repaired or replaced if they are used for a long period of time. • These projectors use a mercury lamp with high internal pressure. Because of its properties, this lamp may burst with a loud noise or burn out if struck or after it has been used for a period of time. The time until it bursts or burns out varies greatly according to differences between lamps and usage conditions. Turning the lamp's power on and off frequently shortens its service life. • Optical components other than the lamp: If the projector is used for six hours or more per day, they may need to be replaced in less than a year. • LCD panel: If the projector is used continuously for six hours or more, its replacement cycle may be shortened. • Do not turn projector on again for ten minutes after shutdown. Neglect can shorten the lifetime or the lamp. During use and immediately after use, do not touch anywhere near the lamp and the vents as these parts are extremely hot. • Windows® is a trademark, or a registered trademark of Microsoft Corporation in the United States and/or other countries. • Crestron Connected and the Crestron Connected Logo are registered trademarks of Crestron Electronics. • MHL, the MHL logo, and Mobile High-Definition Link are trademarks or registered trademarks of MHL, LLC in the United States and other countries. • HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. • ImageCare is a trademark or a registered trademark of Philips Lighting in the United States and other countries. • All other trademarks are the properties of their respective owners.

dnx pixelworks™

ImageCare

HITACHI

August 2016

NM-E413 082016

Lineup of easy-to-use projectors that deliver clear images to meet your applications
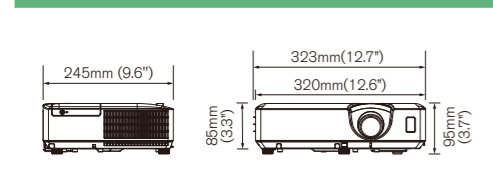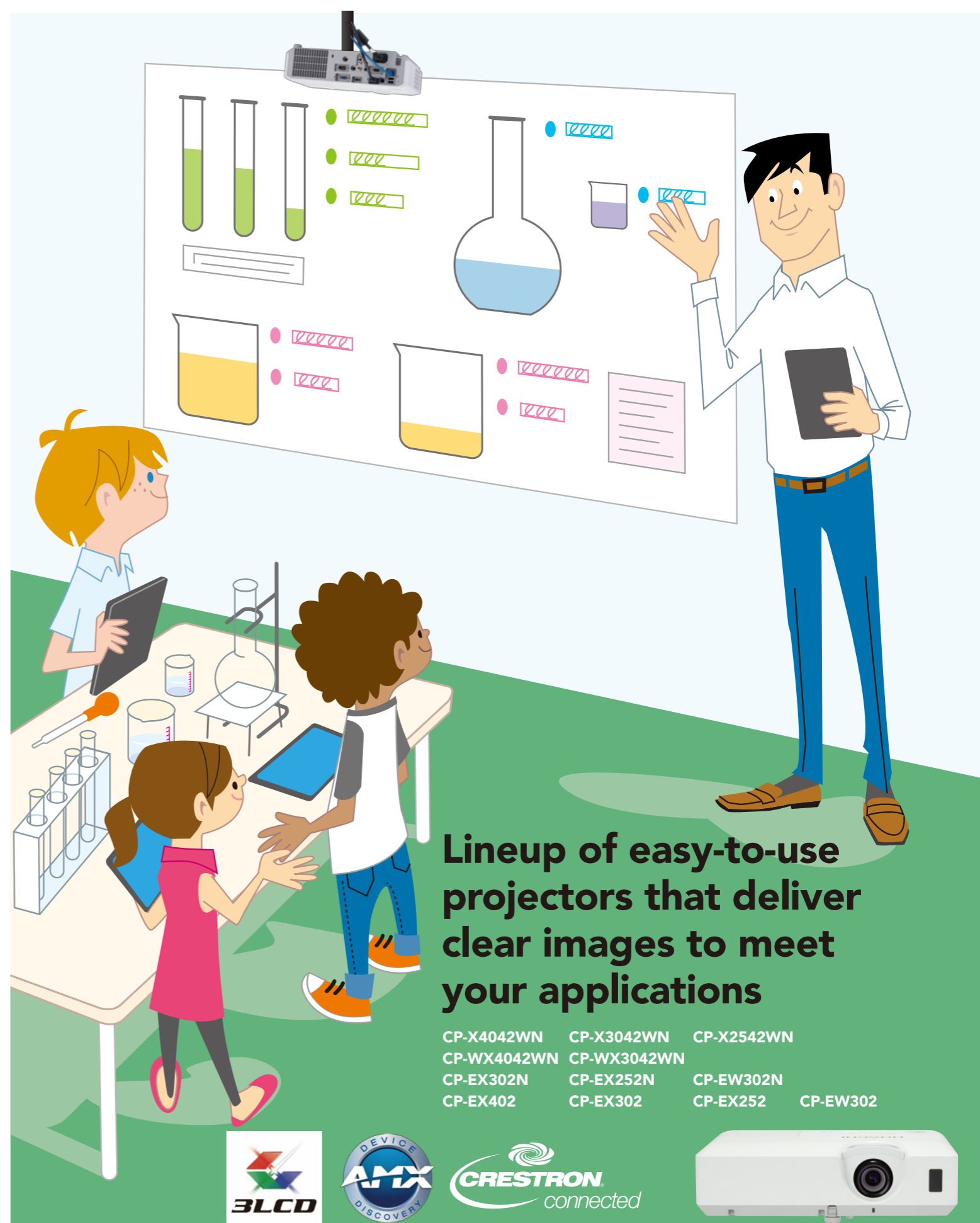
CP-X4042WN   CP-X3042WN   CP-X2542WN
CP-WX4042WN   CP-WX3042WN
CP-EX302N   CP-EX252N   CP-EW302N
CP-EX402   CP-EX302   CP-EX252   CP-EW302

3LCD   **AMX DEVICE DISCOVERY**   **CRESTRON connected**

*Projected images are simulations   CP-EX402, CP-EX302, CP-EX252 and CP-EW302 do not support AMX Device Discovery and Crestron Connected.

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.
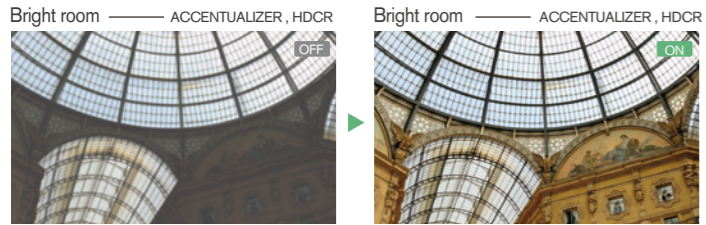
Bright room —— ACCENTUALIZER , HDCR OFF

Bright room —— ACCENTUALIZER , HDCR ON

Image Optimizer

Equipped with IMAGE OPTIMIZER, Hitachi's original function 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
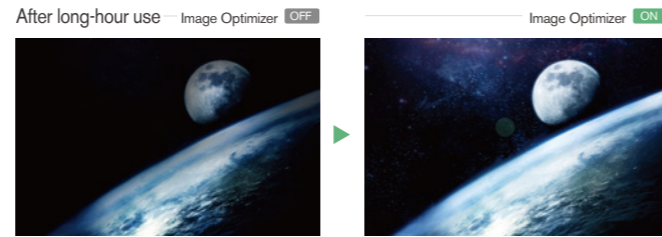
The entire image becomes dark.

Image Optimizer ON

Dark parts of the image becomes clear.

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™

MHL Cable

Saver Mode

This feature developed by Hitachi, based on ImageCare® technology, reduces the lamp brightness and power consumption, resulting in considerable energy savings. The saver mode automatically activates when the projected image does not change in the preset time (1 to 30 minutes). You can also activate the saver mode manually with the remote controller.

Manual
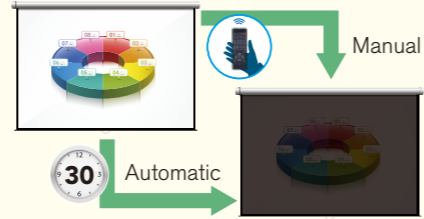
30 Automatic

Intelligent Eco Mode

This feature developed by Hitachi, based on ImageCare® technology, automatically changes the lamp brightness according to the input signal level. The lamp brightness is reduced when a darker image is projected, and returns to normal when a brighter image is projected, eliminating unnecessary energy consumption from the lamp.

10000:1 High Contrast Ratio

2 HDMI inputs

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

HDMI1 HDMI2 PC Document Camera
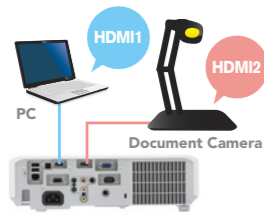
MIC Input*1 and 16W Internal Speaker

The projectors are equipped with a microphone input, so you can use the microphone system, even when the projector is in standby.*2

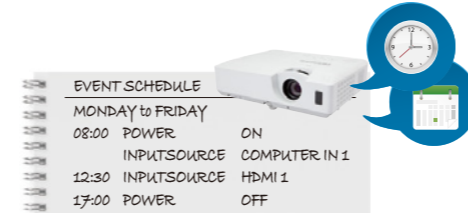These projectors also have a built-in 16watt high power speaker.

*1 No MIC input terminal on CP-EX301N, CP-EX251N, and CP-EW301N.
*2 Not available while the STANDBY MODE is set to SAVING.

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

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.
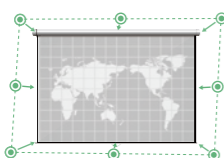
Easy Maintenance

The lamp door is on the top and the filter cover is on the side, so maintenance and replacement of these parts can be done easily.

Other Useful Features

• Auto Vertical Keystone Correction
• Horizontal Keystone Correction
• PC-less Presentation • USB Display

• Compatible with AMX Device Discovery
• Compatible with Crestron Room View®
• Network Bridge

• Auto Eco Mode • Audio Pass Through
• Direct Power On/Off • MyScreen
• My Button • My Memory
• Closed Caption • Security Pin Lock System

■:For CP-X4042WN, CP-X3042WN, CP-X2542WN, CP-WX4042WN, CP-WX3042WN ■:For CP-EX302N, CP-EX252N, CP-EW302N ■:For CP-EX402, CP-EX302, CP-EX252, CP-EW302

LINE UP * Local availability may be limited.

Advanced features & network functions	Convenient features & network functions	Basic features

Advanced features & network functions
CP-X4042WN	CP-X3042WN	CP-X2542WN
XGA 4,200lm	XGA 3,2000lm	XGA 2,700lm
CP-WX4042WN	CP-WX3042WN	
WXGA 4,000lm	WXGA 3,000lm	

Convenient features & network functions
CP-EX302N	CP-EX252N
XGA 3,200lm	XGA 2,700lm
CP-EW302N	
WXGA 3,000lm	

Basic features
CP-EX402	CP-EX302	CP-EX252
XGA 4,200lm	XGA 3,2000lm	XGA 2,700lm
CP-EW302		
WXGA 3,000lm		

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.
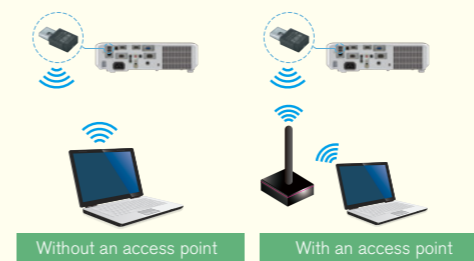
Without an access point With an access point

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
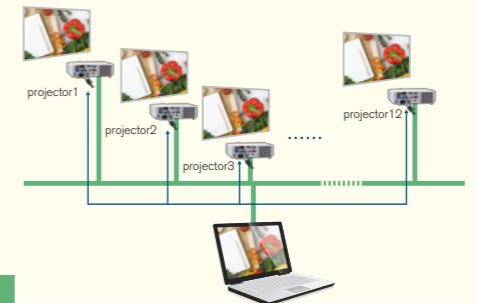
Moderator Control Mode*1

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 from all the computers (clients).

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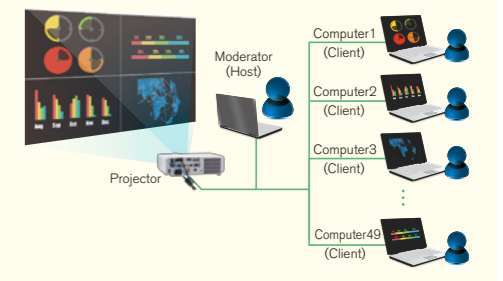
Projector Quick Connection

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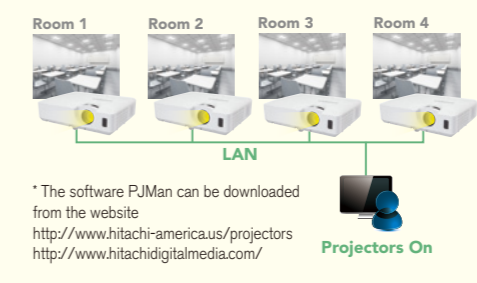
* The software PJMan can be downloaded from the website
http://www.hitachi-america.us/projectors
http://www.hitachidigitalmedia.com/

Projectors On

E-mail Alerts

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

Room 1 Room 2
Room 3 Room 4
LAN E-mail
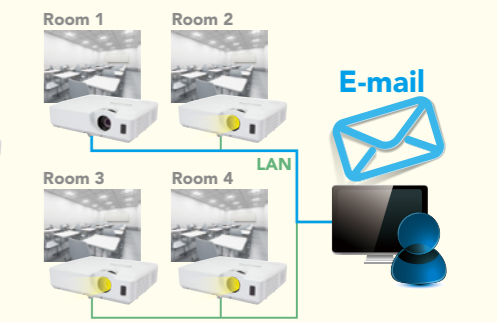
*1 To secure better performance, a wired network is preferable. Required to install the LiveViewer software from the bundled CD-ROM on all the computers. The functions are supported by LiveViewer (Windows® application) only.
*2 Image transfer speed may vary depending on number of projectors connected. *3 Image and audio transfer speed may vary depending on number of projectors connected.
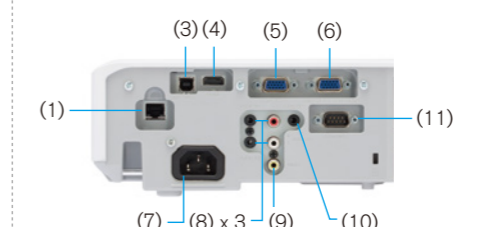
Terminals

CP-X4042WN, CP-X3042WN, CP-X2542WN, CP-WX4042WN, CP-WX3042WN
(2) x 2 (3)(4) x 2 (5)
(1) (11) (12)
(6) (7) (8) x 3 (9) (10)

CP-EX302N, CP-EX252N, CP-EW302N
(3)(4) (5) (6)
(1) (11)
(7) (8) x 3 (9) (10)

CP-EX402, CP-EX302, CP-EX252, CP-EW302
(4) (5) (6)
(9) (11)
(7) (8) (10)
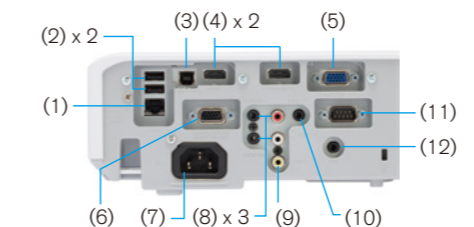
(1):LAN (2):USB-A (3):USB-B (4):HDMI (5):COMPUTER IN1 (6):COMPUTER IN2 / MONITOR OUT (7):AC IN (8):AUDIO IN (9):VIDEO (10):AUDIO OUT (11):CONTROL (12):MIC

Notes • Comparison photos are simulations. • The images in this catalog are representations of the effects and differ from actual images.