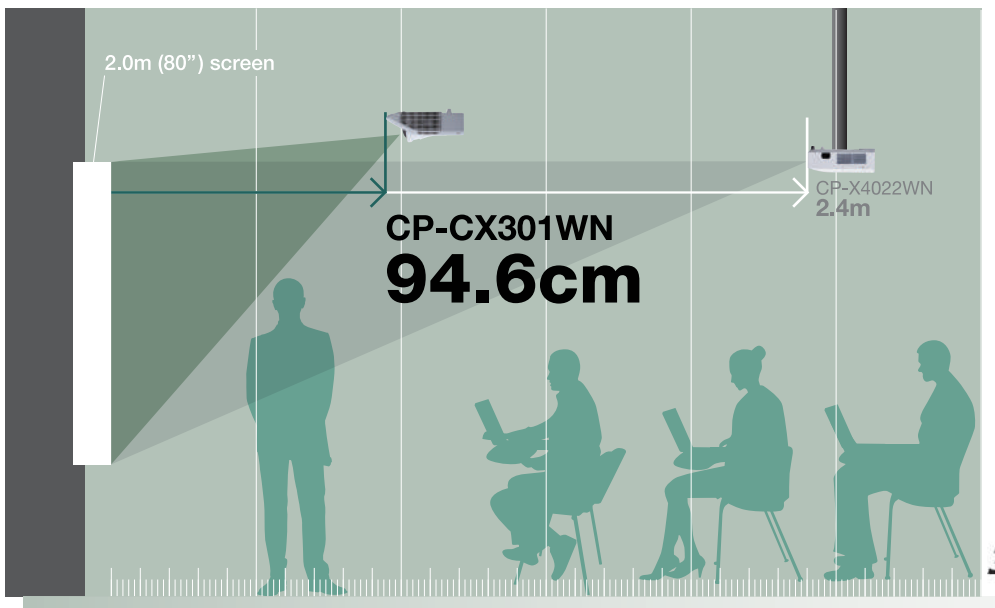
Super-Short Throw Projector

HITACHI
Inspire the Next



CP-CW301WN WXGA 3,100lm
CP-CX301WN XGA 3,100lm
CP-CW251WN WXGA 2,600lm
CP-CX251N XGA 2,500lm

3LCD

This projector achieves a projection on a 2.0m (80") screen at a short distance of only 94.6cm (37.2")*. Since they can project a large image from directly in front of a screen, teachers can conduct enjoyable lessons effectively using limited classroom space. Students can concentrate on lessons without being distracted by the projector's light source, or the teacher's shadow cast on the screen.

*Distaqnce from screen to front-end of CP-CX301WN/CP-CX251N.

High Image Quality

10000:1 High Contrast Ratio* (*CP-CX251N 2000:1)
ACCENTUALIZER*1
HDCR (High Dynamic Contrast Ratio)*1
Image Optimizer*1
Blackboard/Whiteboard mode

Installability and System Features

Digital Zoom / Digital Shift
Vertical Keystone Correction
2-HDMI inputs* (*CP-CX251N 1-HDMI input)

Easy Maintenance

Lamp Door located on the top
Air Filter located on the rear panel

ECO

Intelligent Eco
Saver Mode
Standby Power Saving Mode

Easy Presentation

PC-Less Presentation*1
USB Display*1
16W Internal Speaker* (*CP-CX251N 10W)
Microphone input*1
Network Presentation*1

Various Network Functions

Wireless Capability (Option)*1
Multi Projector Projection*1
Moderator Control Mode*1
Projector Monitoring and Control
E-mail alarts
Projector Quick Connection (Application software for smart device)*1
Compatible with AMX Device Discovery
Compatible with Crestron Room View®
Network Bridge

Security

PIN Lock System
Seculity bar / Security slot
MyScreen Lock
Keypad Lock

More Convenient Features

Hybrid Air Filter
Easy Schedule Setting
Multi-language User Menu
Input Source Naming
Template
Auto Signal Search
Direct Power On/Off
Standby Audio
Audio Pass Through

*1 CP-X251N does not include these functions.

CP-CW251WN
CP-CW301WN
CP-CX301WN
CP-CX251N

Super-Short Throw Projector

Specifications

Model name		CP-CW301WN	CP-CW251WN	CP-CX301WN	CP-CX251N
Display system		3LCD			
Display device	Size of effective display area	0.59", aspect ratio 16:10		0.63", aspect ratio 4:3	
	Number of pixels	1,024,000 pixels (1280 horizontal x 800 vertical)		786,432 pixels (1024 horizontal x 768 vertical)	
Lens	Zoom	Digital zoom x 1.35			
	Focus	Manual			
Light source		225W			
Screen size		60-150 inch			
Light output (Brightness)		3100lm	2600lm	3100lm	2500lm
Contrast ratio		10,000:1 (full white/full black)			2000:1 (full white/full black)
Speaker		16W mono			1W mono
Displayable scanning frequency	Horizontal	15k-106 kHz			
	Vertical	50-120 Hz			
Terminals		COMPUTER IN1: D-sub 15 pin mini connector x1 COMPUTER IN2 / MONITOR OUT: D-sub 15 pin mini connector x1 VIDEO: RCA connector x1 HDMI IN: HDMI connector x2 (HDCP compliant) AUDIO IN1: 3,5mm stereo mini connector x 1 AUDIO IN2: RCA connector L/R x1 AUDIO OUT: 3.5mm stereo mini connector x1 Microphone input: 3,5mm mono mini connector x 1 CONTROL (RS-232C): D-sub 9 pin connector x1 LAN: RJ45 connector x1 USB-A: USB type A x 2 (PC less Presentation or wireless adapter) USB-B: USB type B x 1 (USB display and USB mouse control)			COMPUTER IN1: D-sub 15-pin mini connector x 1 COMPUTER IN2 / MONITOR OUT: D-sub 15-pin mini connector x 1 S-VIDEO: Mini DIN 4-pin x 1 VIDEO: RCA connector x 1 HDMI: HDMI connector x1(HDCP compliant) AUDIO IN: RCA connector L/R x 1 AUDIO OUT: RCA connector L/R x 1 CONTROL: D-sub 9-pin connector x 1 LAN: RJ45 connector x1 USB-B: USB type B x 1 (USB mouse control)
Operating temperature		0 ~ 40°C 35 ~ 40°C (The brightness of lamp is reduced automatically.)			
Operating humidity (RH)		20 ~ 80%RH (non-cndensing)			
Power requirements		AC 100-120V (50/60Hz) : 3.5A AC 220-240V (50/60Hz) : 1.7A			AC100-120V (50/60Hz) : 3.1A AC 220-240V (50/60Hz) :1.5A
Power consumption		AC100-120V: 340W AC220-240V: 320W			AC100-120V: 300W AC220-240V: 290W
Standby mode power consumption		0.35W at saving mode			
Standard outside dimensions (WxHxD)		350 x 134 x 305mm (13.8" x 5.3" x 12.0") 345 x 85 x 303mm (13.6" x 3.3" x 11.9") (Excluding protrusions)			
Weight		approx. 3.6 kg (7.9lbs)			approx. 3.4 kg (7.5lbs)
Accessories		Remote control, AA batteries, Power cord, Computer cable, Lens cover, Strap, User's manuals (Book, CD), Security label, Application CD, Adapter cover			Remote control, AA batteries, Power cord, Computer cable, Lens cover, Strap, User's manuals (Book, CD), Security label

Environment

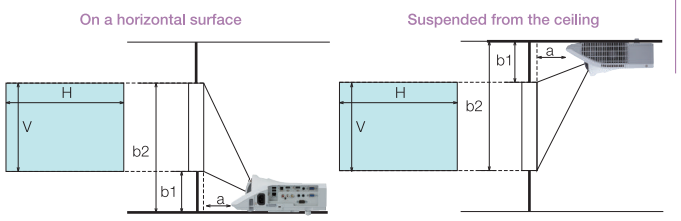
- **Compliance with EU Directive RoHS*1**
- **Reduction of resin usage in production**
  Use of hot runners in molds for making upper housing in order to reduce mill ends.
- **Reduction of CO_2 emissions**
  Carton volume has been cut down to 96.2%*2, reducing CO_2 emissions during transport.
- **Power 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-D31N network capable projector on the basis of one carton box.

Dimensions

Projection Distance



CP-CW251WN CP-CW301WN (1280 x 800) (±8%)

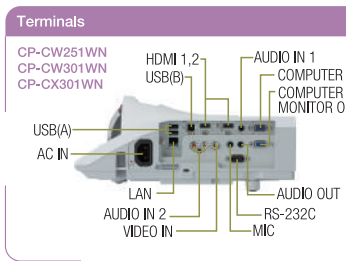
Screen type	Screen size H	Screen size V	Projection distance a		Screen height b1		Screen height b2	
inch	m	m	m	inch	m	inch	m	inch
60	1.3	0.8	0.735	28.9	0.242	9.5	1.050	41.3
70	1.5	0.9	0.870	34.3	0.272	10.7	1.214	47.8
80	1.7	1.1	1.006	39.6	0.302	11.9	1.379	54.3
90	1.9	1.2	1.141	44.9	0.331	13.0	1.543	60.7
100	2.2	1.3	1.276	50.2	0.361	14.2	1.707	67.2
120	2.6	1.6	1.547	60.9	0.420	16.5	2.035	80.1
150	3.2	2.0	1.953	76.9	0.508	20.0	2.528	99.5

CP-CX301WN CP-CX251N (1024 x 768) (±8%)

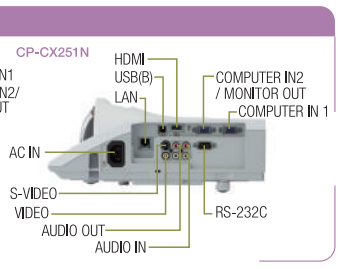
Screen type	Screen size H	Screen size V	Projection distance a		Screen height b1		Screen height b2	
inch	m	m	m	inch	m	inch	m	inch
60	1.2	0.9	0.691	27.2	0.155	6.1	1.069	42.1
70	1.4	1.1	0.818	32.2	0.171	6.7	1.237	48.7
80	1.6	1.2	0.946	37.2	0.186	7.3	1.405	55.3
90	1.8	1.4	1.073	42.3	0.202	7.9	1.573	61.9
100	2.0	1.5	1.201	47.3	0.217	8.6	1.741	68.6
120	2.4	1.8	1.456	57.3	0.249	9.8	2.077	81.8
150	3.0	2.3	1.838	72.4	0.295	11.6	2.581	101.6

Terminals

CP-CW251WN
CP-CW301WN
CP-CX301WN



CP-CX251N



—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®, Windows Vista® and Internet Explorer® are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- Pentium® is trademark of Intel Corporation in the U.S. and/or other countries.
- Crestron® and Crestron RoomView® are registered trademarks of Crestron Electronics, Inc. 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 Royal Philips in the United States and other countries.
- All other trademarks are the properties of their respective owners.

HITACHI

Hitachi America, Ltd., Digital Media Division 2420 Fenton Street, Suite 200 Chula Vista, CA 91914, U.S.A. and Canada Tel: +1-800-225-1741 www.hitachi-america.us/digitalmedia
Hitachi Home Electronics Asia (S) Pte. Ltd. 438A Alexandra Road #01-01/02/03, Alexandra Technopark, 119967, Singapore Tel: +65-6536-2520 www.hitachiconsumer.com.sg
Hitachi Sales (Malaysia) Sdn. Bhd. Lot 12, Jalan Kemajuan, Bangi Industrial Estate, 43650 Bandar Baru Bangi, Selangor Darul Ehsan, Malaysia Tel: +60-3-8911-2670 www.hitachiconsumer.com.my
Hitachi Sales (Thailand), Ltd. 994, 996 Soi Thonglor, Sukhumvit 55 Road, Klongtonnua, Vadhana Bangkok 10110, Thailand Tel: +66-2335-5455 www.hitachi-th.com
Hitachi (Hong Kong), Ltd. 18th Floor, Ever Gain Centre, 28 On Muk Street, Shatin, N.T., Hong Kong Tel: +852-2113-8883 www.hitachi-hk.com.hk
Hitachi Sales Corp. of Taiwan 2nd Floor, No.65, Nanking East Road, Section 3, Taipei 104, Taiwan Tel: +886-2-2516-0500 www.hsct.com.tw
Hitachi Australia Pty Ltd. Suite 801, Level 8, 123 Epping Road, North Ryde NSW 2113, Australia Tel: +61-2-9888-4100 www.hitachi.com.au
Hitachi Europe Ltd., Digital Media Group Consumer Affairs Department Whitebrook Park, Lower Cookham Road, Maidenhead, Berkshire, SL6 8YA, UK Tel: +44-1628-585000 www.hitachidigitalmedia.com
Hitachi Maxell, Ltd. 5030 Totsuka-cho, Totsuka-ku Yokohama, 244-0003, Japan http://www.hitachi.co.jp/proj/

August 2015