#### **SPECIFICATIONS**

SPECIFI	CAHONS					
Model name		CP-X809				
Liquid crystal	panel structure	0.8" (2.0cm) polysilicon active-matrix TFT x 3				
Number of pixels		786,432 pixels (V768 x H1,024)				
Resolution		1,024 x 768 color pixels				
Lens		Manual zoom (F=1.7-1.9) 1:1.2				
Lamp		275W UHB				
Brightness (li	ght output)	5,000 ANSI lumens				
Contrast ratio	1	1000:1 (Iris:ON)				
Speakers		4W x 4 SRS WOW technology				
Keystone cor	rection	Auto vertical and manual horizontal keystone				
Power supply		AC100-120V/AC220-240V				
Operating ten	nperature	5-35°C (41-95°F)				
Input	RGB input	VGA, SVGA, XGA, SXGA, UXGA, MAC16"				
signals	Video input	NTSC, NTSC4.43, PAL, SECAM, M-PAL, N-PAL,				
_		HDTV: 750p (720p), 1125i (1080i)				
		SDTV: 525i (480i), 525p (480p), 625i (576i)				
Input/output	Video input	S-Video: Jack x 1, Composite video: RCA jack x 1,				
terminals		Component video: RCA jack x 3				
	Audio input	RCA jack x 2 (L/R), Stereo-mini jack x 2				
	RGB input	Analog RGB: 15-pin Mini-Dsub x 1,				
		BNC x 1, HDMI (digital RGB) x 1				
	Audio output	Stereo-mini jack x 1				
	RGB output	Analog RGB: 15-pin Mini-Dsub x 1				
	Wired remote	Yes				
	control port	9-pin Dsub x 1 for RS232C,				
	Control and mouse					
		USB type B x 1 for mouse control				
	PC-less presentation	USB type A x 1, SD slot x 1 (shared with wireless)				
	Wireless network	Yes (SD wireless card is optional)				
	Wired network (LAN)	RJ-45 x 1				
Agency certifi	ications	UL60950-1/C-UL, FCC Part 15, Class B,				
		AS/NZS CISPR22 Class B, CE, EN61000-3-2,				
		EN61000-3-3, EN55022, EN55024, EN60950-1				
Dimensions (WxHxD)		418 x 139 x 319mm (16.49" x 5.47" x 12.56")				
		[excl. protruding part]				
Weight		7.1kg (15.6 lbs.)				
Standard accessories		Computer cable, Power cord, Remote control,				
		Batteries, Security label, Application software CD,				
		SD slot cover lock, User's manual, Lens cap, Strap				

· Specifications are measured in the normal mode.

#### **OPTIONAL LENSES** (Bayonet Type)

We provide a variety of optional lenses that can be selected according to specific requirements. The lenses are bayonet type, so they can be replaced easily.

FL-601 (LENS TYPE 2) Lens shift position 1:1, F = 2.3, f = 13mm, Throw distance ratio = 1:0.8, zoom: 1.0

Option 2 Short Lens

SL-602 (LENS TYPE 3)

F = 1.9-2.6, f = 20-32mm,

ratio = 1:1.2-2.0, zoom: 1.6



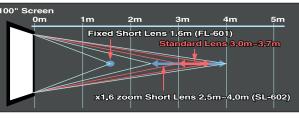
LL-603 (LENS TYPE 4) F = 2.1-2.9, f = 32-63mm, Throw distance ratio = 1:2.0-3.9 zoom: 2.0

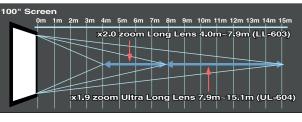
Option 3 Long Lens



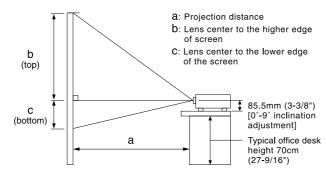
Option 4 Ultra Long Lens UL-604 (LENS TYPE 5) F = 2.2-3.1, f = 63-117mm, Throw distance ratio = 1:3.9-7.4 zoom: 1.9







#### **PROJECTION DISTANCE**



Projection Distance of Standard Lens (LENS TYPE 1) Screen Size (inch)

[4:3 Screen]	min.	max.	1:1	9:1	1:1	9:1
30	0.9m (35")	1.1m (42")	23cm (9")	41cm (16")	23cm (9")	5cm (2")
40	1.2m (47*)	1.4m (57")	30cm (12")	55cm (22*)	30cm (12")	6cm (2")
60	1.8m (71")	2,2m (86")	46cm (18")	82cm (32")	46cm (18")	9cm (4")
70	2.1m (83")	2.6m (100")	53cm (21")	96cm (38")	53cm (21")	11cm (4")
80	2.4m (96")	2.9m (115")	61cm (24")	110cm (43")	61cm (24")	12cm (5")
90	2.7m (108")	3.3m (130")	69cm (27")	123cm (49")	69cm (27")	14cm (5")
100	3.0m (120")	3.7m (144")	76cm (30")	137cm (54")	76cm (30")	15cm (6")
120	3.7m (144")	4.4m (174")	91cm (36")	165cm (65")	91cm (36")	18cm (7")
150	4.6m (181")	5.5m (217")	114cm (45*)	206cm (81")	114cm (45*)	23cm (9")
200	6.1m (241")	7.4m (291")	152cm (60")	274cm (108")	152cm (60")	30cm (12")
250	7.7m (302")	9.2m (364")	191cm (75")	343cm (135")	191cm (75")	38cm (15")
300	9.2m (363")	11.1m (437")	229cm (90")	411cm (162")	229cm (90")	46cm (18")
350	10.8m (424")	13.0m (510")	267cm (105")	480cm (189")	267cm (105")	53cm (21")

Projection Distance of Optional Lens 1 (Fixed Short Lens) FL-601 (LENS TYPE 2)

Screen Size (inch)	a	l b	c
[4:3 Screen]	min.	1:1	1:1
40	0.6m (24")	30cm (12")	30cm (12")
60	0.9m (37")	46cm (18")	46cm (18")
70	1.1m (43")	53cm (21*)	53cm (21")
80	1,3m (50")	61cm (24")	61cm (24")
90	1.4m (56")	69cm (27*)	69cm (27")
100	1.6m (63")	76cm (30*)	76cm (30")
120	1,9m (76")	91cm (36")	91cm (36")
150	2.4m (95")	114cm (45")	114cm (45")
200	3.3m (128*)	152cm (60")	152cm (60")
250	4.1m (161")	191cm (75")	191cm (75")
300	4.9m (193")	229cm (90")	229cm (90°)
350	5.7m (226")	267cm (105*)	267cm (105")

Projection Distance of Optional Lens 2 (Short Lens) SL-602 (LENS TYPE 3)

Octobil Size (Ilicil)		a .		,	,	•
[4:3 Screen]	min.	max.	1:1	10:0	1:1	10:0
40	1.0m (38")	1.6m (62")	30cm (12")	61cm (24")	30cm (12")	0cm (0")
60	1.5m (58*)	2.4m (94")	46cm (18")	91cm (36*)	46cm (18")	0cm (0")
70	1.7m (68")	2,8m (110")	53cm (21")	107cm (42")	53cm (21")	0cm (0")
80	2.0m (78")	3.2m (126")	61cm (24")	122cm (48")	61cm (24")	0cm (0")
90	2.2m (88")	3.6m (143")	69cm (27*)	137cm (54")	69cm (27*)	0cm (0")
100	2.5m (98")	4.0m (159")	76cm (30")	152cm (60")	76cm (30")	0cm (0")
120	3.0m (118")	4.8m (191")	91cm (36")	183cm (72")	91cm (36")	0cm (0")
150	3.8m (148")	6.1m (239")	114cm (45*)	229cm (90")	114cm (45*)	0cm (0")
200	5.0m (199")	8.1m (319")	152cm (60")	305cm (120*)	152cm (60")	0cm (0")
250	6.3m (249")	10.2m (400")	191cm (75")	381cm (150")	191cm (75")	0cm (0")
300	7.6m (299")	12.2m (480")	229cm (90")	457cm (180")	229cm (90")	0cm (0")
350	8.9m (349")	14.2m (561")	267cm (105")	533cm (210")	267cm (105")	0cm (0")

Projection Distance of Optional Lens 3 (Long Lens) LL-603 (LENS TYPE 4)

[4:3 Screen]	min.	max.	1:1	10:0	1:1	10:0
40	1.5m (60")	3.1m (122")	30cm (12")	61cm (24")	30cm (12")	0cm (0")
60	2.4m (93")	4.7m (185")	46cm (18")	91cm (36")	46cm (18")	0cm (0")
70	2.8m (109")	5.5m (216")	53cm (21")	107cm (42")	53cm (21")	0cm (0")
100	4.0m (157")	7.9m (311")	76cm (30")	152cm (60")	76cm (30")	0cm (0")
120	4.8m (190")	9.5m (374")	91cm (36")	183cm (72")	91cm (36")	0cm (0")
150	6.0m (238")	11.9m (468")	114cm (45")	229cm (90")	114cm (45")	0cm (0")
200	8.1m (319")	15.9m (626")	152cm (60")	305cm (120")	152cm (60")	0cm (0")
250	10.2m (400°)	19.9m (783")	191cm (75")	381cm (150*)	191cm (75")	0cm (0")
300	12,2m (480")	23.9m (941")	229cm (90")	457cm (180")	229cm (90")	0cm (0")
350	14.3m (561")	27.9m (1098")	267cm (105")	533cm (210")	267cm (105")	0cm (0")
400	16.3m (642*)	31.9m (1256")	305cm (120*)	610cm (240*)	305cm (120*)	0cm (0")
500	20.4m (803")	39.9m (1571")	381cm (150")	762cm (300")	381cm (150")	0cm (0")

Projection Distance of Optional Lens 4 (Ultra Long Lens) UL-604 (LENS TYPE 5)

acreen aize (inch)	a		U		į į	
[4:3 Screen]	min.	max.	1:1	10:0	1:1	10:0
40	3.1m (121")	6.0m (235")	30cm (12")	61cm (24")	30cm (12")	0cm (0")
60	4.7m (184")	9.0m (355")	46cm (18")	91cm (36")	46cm (18")	0cm (0")
70	5.5m (215")	10,5m (415")	53cm (21")	107cm (42")	53cm (21")	0cm (0")
100	7.9m (310")	15.1m (595")	76cm (30")	152cm (60")	76cm (30")	0cm (0")
120	9.5m (373")	18.2m (716")	91cm (36")	183cm (72")	91cm (36")	0cm (0")
150	11,9m (467")	22,8m (896")	114cm (45")	229cm (90")	114cm (45")	0cm (0")
200	15.9m (625")	30.4m (1196")	152cm (60")	305cm (120")	152cm (60")	0cm (0")
250	19.9m (782")	38.0m (1497")	191cm (75")	381cm (150")	191cm (75")	0cm (0")
300	23.9m (939")	45.6m (1797")	229cm (90")	457cm (180*)	229cm (90")	0cm (0")
350	27.9m (1097")	53.3m (2097")	267cm (105")	533cm (210")	267cm (105")	0cm (0")
400	31.9m (1254")	60.9m (2398")	305cm (120")	610cm (240")	305cm (120")	0cm (0")
500	39.9m (1569")	76.2m (2999")	381cm (150")	762cm (300*)	381cm (150")	0cm (0")

- · Design and specifications are subject to change without notice.

- Optical components (lamp, LCU panel, potanzing plate, PSS [polarizer tream syntem], compacting min, section with a loud noise or burn out if struck or after it has been used for a 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 be shortened.
  CLO panel: If the projector is used continuously for six hours or more, its replacement cycle may be shortened.
  Op not turn projector on again for ten minutes after shutdown. Neglect can shorten the lifetime of the lamp. During use and immediately after use, do not touch anywhere near the lamp and the vents as these parts are extremely hot.
  HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.







Hitachi, Ltd. Consumer Business Group has received ISO 14001

### HITACHI

Hitachi Home Electronics (America), Inc., Business Group 900 Hitachi Way, Chula Vista, CA91914-3556, U.S.A. and Canada Tel: +1-800-HITACHI Fax: +1-619-591-5418 www.hitachi.us/o

Hitachi Home Electronics Asia (S) Pte. Ltd. 438A Alexandra Road #01-01/02/03, Alexandra Technopark, Singapore 119967

Tel: +65-6536-2520 Fax: +65-6536-2521 www.hitachiconsumer.com.sg

Hitachi Sales (Malaysia) Sdn. Berhad (11543-V) Lot 12, Jalan Kemajuan, Bangi Industrial Estate, 43650 Bandar Baru Bangi, Selangor Darul Ehsan, Malaysia. Tel: +60-3-8926-4168 Fax: +60-3-8926-3013 www.hitachiconsumer.com.my

Hitachi Sales (Thailand), Ltd. 994 Soi Thonglor, Sukhumvit 55 Road, Klongtonnua, Vadhana Bangkok 10110, Thailand

Tel: +66-2381-8381-98 Fax: +66-2391-0210/2391-0021 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 Fax: +852-2783-4178 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 Fax: +886-2-2516-1501 www.hsct.com.tw

Hitachi Australia Pty Ltd. Level 3, 82 Waterloo Road, North Ryde, NSW 2113, Australia Tel: +61-2-9888-4100 Fax: +61-2-9888-4188 www.hitachi.com.au Hitachi Europe Ltd. Whitebrook Park, Lower Cookham Road, Maidenhead, Berkshire, SL6 8YA, UK Tel: +44-1628-585000 Fax: +44-1628-643404 www.hitachidigitalmedia.com

Printed in Japan (H) NM-XXXX 0708







# **Designed to facilitate ceiling mounting** in mid to large-size spaces.

## **Convenient Ceiling Mounting: Superior Maintainability and Networking**

#### ■ Superior Features for Easy Maintenance

Thanks to the Hybrid Filter, maintenance and cleaning are much less frequent, making longer operation possible. With the lamp door on the top and the filter cover on the side, maintenance and replacement of these parts can be done easily even when the projector is mounted.



With the New Hybrid Filter, filter maintenance frequency has been improved from every 400 hours to every 2,000 hours.

#### Manual Lens Shift

The lens can be adjusted manually to shift the position of the image. It can be moved 9cm (3-9/16") to the left and

right, and 50cm (19-11/16") up and down on a 70" screen. After ceiling mounting, fine adjustments can be done with a screwdriver.

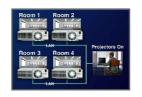


#### ■ Inorganic Optics

The CP-X809 uses inorganic LCD panels, which feature a higher resistance to light. This translates into longer operational life for the projector, and better picture quality during the life of the projector.

#### ■ Projector Monitoring and Control from a Remote Location

Hitachi's Projector Management Software\* (PJMan) gives you the ability to control, diagnose and manage a single or group of Hitachi projectors.



#### ■ "MY IMAGE"- Image Transfer, Storage and Recall over LAN

Images can be transferred\* over a LAN to individual or multiple projectors. These images are stored in the projector's memory

and can be displayed using the "MY IMAGE" feature of the projector. "MY IMAGE" can be recalled/displayed locally using the projector's remote control or remotely over the LAN.



#### "MY IMAGE" is ideal for:

- Sending presentation images ahead to the projector (so you can leave your computer behind).
- Sending and displaying important announcements and notifications on multiple projectors across a campus.

#### ■ E-mail Alerts

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



#### Scheduling Functions

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



# **Excellent Performance: High Quality Presentation Capabilities**

#### ■ Wireless Multi-User Presentations Make the most of your meetings by:

- Wireless Presentation capabilities (no need to pass around a connection cable).
- · Displaying up to four individual computer presentations at the same time.

Individual user names can be displayed for the connected computers, making it easy to keep track of the displayed presentations.



Cable connection unnecessary.



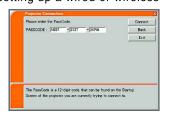
Four images on one screen

#### ■ Quick and Easy Network Presentations

Hitachi's new MIU LiveViewer software\* provides a quick and easy connection wizard for setting up a wired or wireless

network presentation. Just input the Pass Code shown on the screen for convenient network presentations via wired or wireless connection.

 Wireless connection for CP-X809 via optional SD wireless card.



#### ■ Presenter Mode

When multiple computers have access to the projector via the network, a designated user can control presentation privileges (and block unwanted access), ensuring that the current presentation is not interrupted unexpectedly.

Requires additional PC software. Download available directly from Hitachi Web site. Please refer to your owner's manual or Hitachi re-seller for additional details.

## **Easy Use Without Worry: Higher Security and Easier Operation**

#### ■ Improved Security Bar Prevents Theft

This projector has an improved Security Bar that provides a deeper space for heavy chains. It also has a Kensington security slot for using a lock to attach a cable. These security functions prevent theft when the projector is mounted on a ceiling or used on a cart-top.



#### ■ Convenient Audio Pass Through

Audio can be output in stand-by mode, allowing you to listen to external speakers via the projector's audio output. This saves lamp life when you only need sound.

### ■ Template Function

When projecting onto a whiteboard or blackboard this feature projects lines, making writing on the board easier. Various types of line patterns can be selected.



#### ■ Transition Detector Prevents **Unauthorized Use**

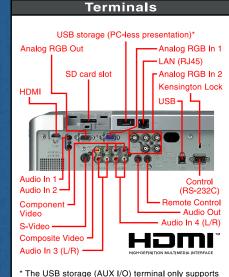
Even if someone takes the projector without authorization, they cannot use it.



#### Other Features

- SRS WOW\* Technology and 4W x 4 Audio Output • Low Noise of 29dBA (Whisper Mode) • Closed Caption Function • PC-less Presentations Using Various Media
- Data Storage via a Network Automatic Time Adjustment • Control Monitoring via Web Browser • Active Iris • Motion Adaptive Progressive Scan • 3:2 Pull Down • Noise Reduction • Equalizing Gamma Function • 3D Y/C Separation • PIN Lock and My Screen PIN Lock • My Text • Auto Vertical Keystone Correction • 4-Second Quick Start • My Button and My Source/Doc. Camera Button • Direct Power On/Off
- · Blackboard or Whiteboard Modes
- Daytime Mode Input Source Naming • Resolution Preset and Custom Modes
- IR Remote Frequency Change · Serial No. Label on Side
- \* **SRS(0)** is a trademark of SRS Labs, Inc.
- Thanks to SRS WOW, the sound is both dynamic and clear.

# Dimensions 418mm (16.46") 9 0 319mm (12.56") - 144.5mm (5.69") 15mm (0.59") 139mm (5.47")



USB storage devices. Compatibility with all USB storage devices is not guaranteed.