

SPECIFICATIONS

Model name	CP-SX635
Liquid crystal panel structure	0.79" (2.0cm) polysilicon active-matrix TFT x 3
Number of pixels	1,470,000 pixels (H1,400 x V1,050)
Resolution	1,400 x 1,050 color pixels
Lens	Manual zoom (F=1.7-1.9) 1:1.2
Lamp	275W UHB
Brightness	4,000 ANSI lumens
Contrast ratio	1000:1 (Iris:ON)
Speakers	4W x 2
Keystone correction	Auto vertical and manual vertical and horizontal keystone
Power supply	AC100-120V/AC220-240V
Operating temperature	5-35°C (41-95°F)
Input signals	RGB input Video input VGA, SVGA, XGA, SXGA, SXGA+, UXGA, MAC16" NTSC, NTSC4.43, PAL, SECAM, M-PAL, N-PAL, HDTV: 750p (720p), 1125i (1080i) SDTV: 525i (480i), 525p (480p), 625i (576i)
Input/output terminals	Video input Audio input RGB input HDMI input Audio output RGB output Wired remote control port Control and mouse Wired network (LAN) S-Video: Mini Din jack x 1, Composite video: RCA jack x 1, Component video: RCA jack x 3 Stereo-mini jack x 2 RCA jack x 2 (L/R), Stereo-mini jack x 2 Analog RGB: 15-pin Mini-Dsub x 1, BNC x 1 HDMI x 1 Stereo-mini jack x 1 Analog RGB: 15-pin Mini-Dsub x 1 Stereo-mini jack x 1 9-pin Dsub x 1 for RS232C, USB type B x 1 for mouse control
Agency certifications	UL60950-1/C-UL, FCC Part 15 Class A, AS/NZS CISPR22 Class A, 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, 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.

Option 1 Fixed Short Lens

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 3 Long Lens

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 2 Short Lens

SL-602 (LENS TYPE 3)

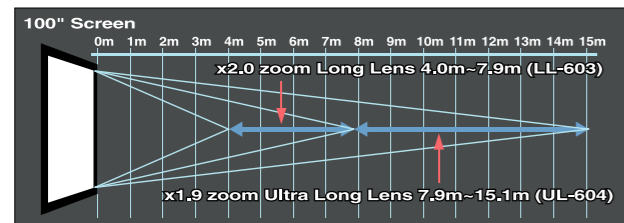
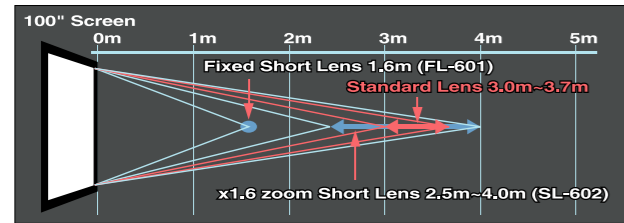
F = 1.9-2.6, f = 20-32mm,
Throw distance ratio = 1:1.2-2.0,
zoom: 1.6



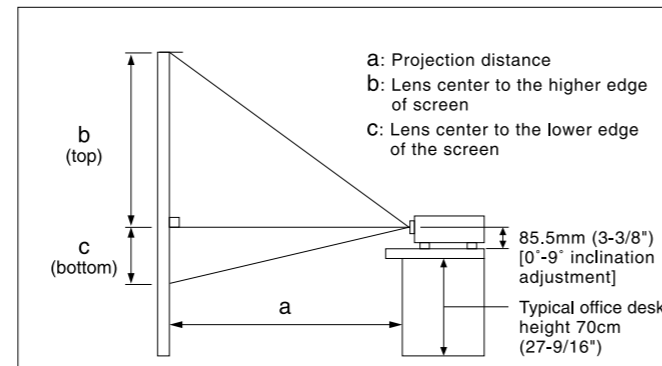
Option 4 Ultra Long Lens

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]	a		b		c	
	min.	max.	1:1	0:1	1:1	0:1
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")

OPTION LENSES

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

Screen Size (inch) [4:3 Screen]	a		b		c	
	min.	max.	1:1	10:0	1:1	10:0
40	0.6m (24")	3.0m (12")	30cm (12")	30cm (12")	30cm (12")	30cm (12")
60	0.9m (37")	4.6cm (18")	46cm (18")	46cm (18")	46cm (18")	46cm (18")
70	1.1m (43")	53cm (21")	53cm (21")	53cm (21")	53cm (21")	53cm (21")
80	1.3m (50")	61cm (24")	61cm (24")	61cm (24")	61cm (24")	61cm (24")
90	1.4m (56")	69cm (27")	69cm (27")	69cm (27")	69cm (27")	69cm (27")
100	1.6m (63")	76cm (30")	76cm (30")	76cm (30")	76cm (30")	76cm (30")
120	1.9m (76")	91cm (36")	91cm (36")	91cm (36")	91cm (36")	91cm (36")
150	2.4m (95")	114cm (45")	114cm (45")	114cm (45")	114cm (45")	114cm (45")
200	3.3m (128")	152cm (60")	152cm (60")	152cm (60")	152cm (60")	152cm (60")
250	4.1m (161")	191cm (75")	191cm (75")	191cm (75")	191cm (75")	191cm (75")
300	4.9m (193")	229cm (90")	229cm (90")	229cm (90")	229cm (90")	229cm (90")
350	5.7m (226")	267cm (105")	267cm (105")	267cm (105")	267cm (105")	267cm (105")

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

Screen Size (inch) [4:3 Screen]	a		b		c	
	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)

Screen Size (inch) [4:3 Screen]	a		b		c	
	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)

Screen Size (inch) [4:3 Screen]	a		b		c	
	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	15.3m (602")	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")

• Tolerance ±10%

• Design and specifications are subject to change without notice.

- The screen and monitor 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], contrast-up film) 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 its service life. 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 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.

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LCD Projector

CP-SX635

HITACHI
Inspire the Next



The CP-SX635 will project vivid and beautiful images in mid- and large-size spaces.

High Resolution of SXGA+

High Image Quality

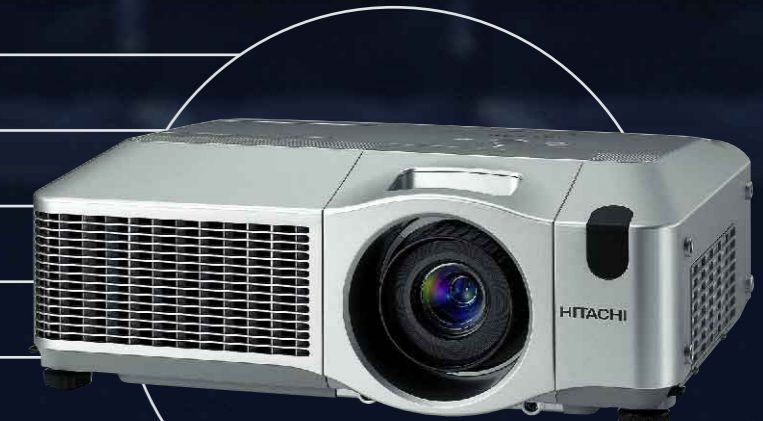
Easy Maintenance

Manual Lens Shift

Convenient Networking

Versatile Security

Superior Usability



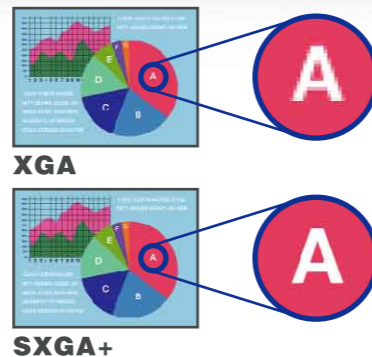
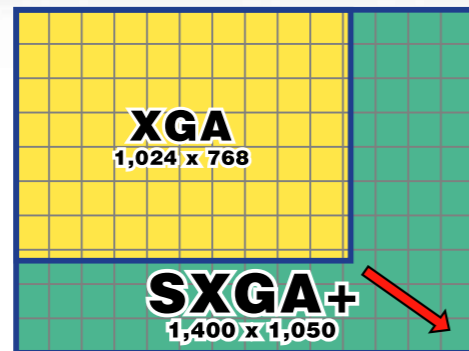
High performance projector featuring high resolution and superior maintainability.

LCD Projector
CP-SX635
4,000 ANSI Lumens



High Resolution of SXGA+

The CP-SX635 offers an extremely wide, SXGA+ resolution projection area. Capable of displaying clear and vivid details for CAD designs, technical data, simulators and so on, it ensures that text and graphs are always sharp.



SXGA+ covers a much wider area than XGA (1.9 times), so it is easy to view a greater amount of information.

High Image Quality

10-bit digital processing

Digital processing of the video signal is 10-bit from input to output, allowing smooth and natural gradations with 1024 shades of each RGB color. In total, the CP-SX635 can create 1.074 billion colors.



8-Bit Processing 10-Bit Processing

Active Iris

In addition to a high 1000:1 contrast ratio, this projector features an Active Iris that is automatically controlled to ensure best image contrast and depth perspective during both bright and dark scenes.



Bright scene Dark scene

Superior features that make easy maintenance possible.

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.

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-SX635 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.

Lamp Door on Top
Easy replacement when the projector is mounted on the ceiling.



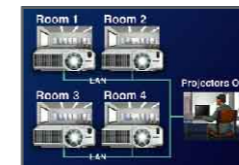
New Hybrid Filter
Filter maintenance frequency has been improved from every 400 hours to every 2,000 hours.

Convenient Networking

Network functions allow management and control of multiple projectors.

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.

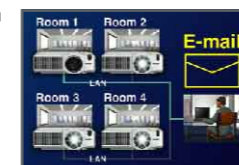


"MY IMAGE" is ideal for:

- 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.



* 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.

Versatile Security

SECURITY MARK
PROTECTED BY SECURITY SYSTEM

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.



Limit Users with PIN Lock and MyScreen Lock

PIN Lock ensures that only those who know the PIN can use the projector. MyScreen Lock locks in a certain image as the startup screen. Using a school name or company logo, for example, makes it clear who owns the projector to prevent use by unauthorized persons.



PIN Lock



MyScreen Lock

Transition Detector Prevents Unauthorized Use

Even if someone takes it without authorization, that person cannot use it.



My Text Function

My Text lets you put text on the startup screen according to your needs, such as model name, serial number or location information.



Remote Control Makes Operation Easier

My Button and My Source buttons on the remote control give you fast access to frequently used functions and sources. Doc. Camera and Volume Up/Down buttons are also provided.



Template Function

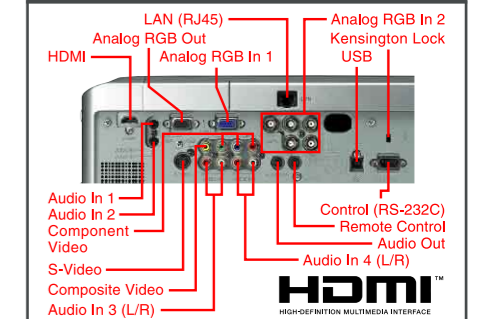
When projecting onto a whiteboard or blackboard and so on, this feature projects lines, making writing on the board easier. Various types of line patterns can be selected.



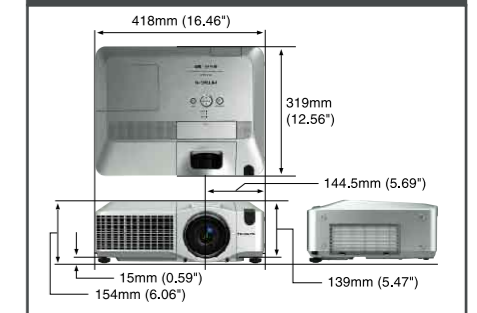
Other Features

- Low Noise of 29dBA (Whisper Mode)
- 4-Second Quick Start • Direct Power On/Off
- 3:2 Pull Down • Noise Reduction • Motion Adaptive Progressive Scan • Equalizing Gamma Function • Automatic Time Adjustment • Control and Monitoring via Web Browser • Convenient Audio Pass Through • Blackboard or Whiteboard Modes • Daytime Mode • Auto Vertical Keystone Correction • Resolution Preset and Custom Modes • Input Source Naming • IR Remote Frequency Change • Serial No. Label on Side • Security Label Included

Terminals



Dimensions



Superior Usability

8W Audio Output

The CP-SX635 provides two built-in 4W speakers. A total sound output of 8W means there is no need to connect external speakers, and even if the classroom does not have speakers, you will have all the sound you need.