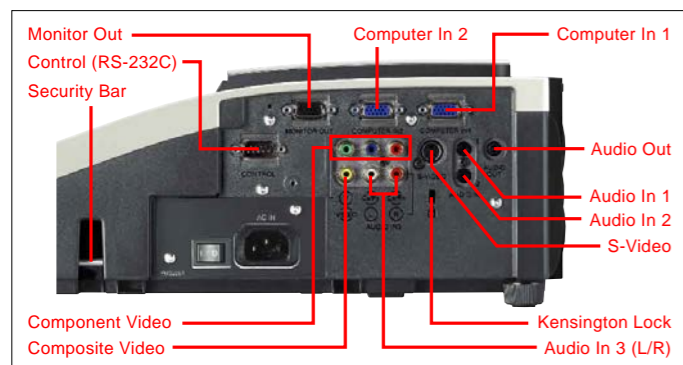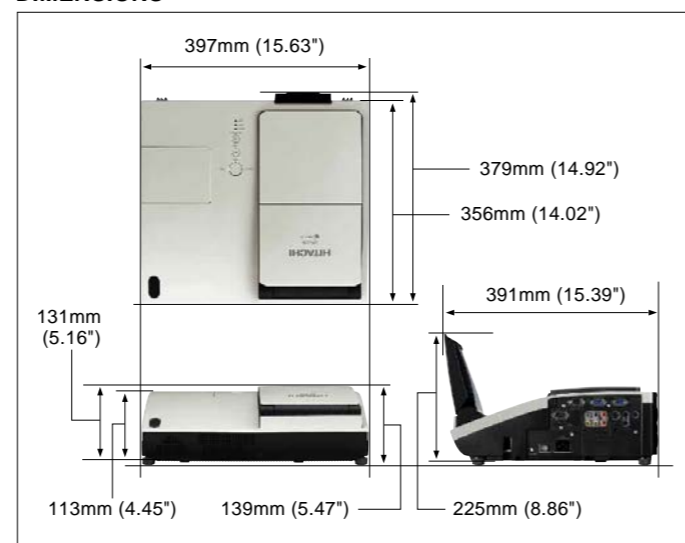## SPECIFICATIONS

Model name		CP-A200
Liquid crystal panel		0.63 type (inch), 1.6cm polysilicon active-matrix TFT x 3
Number of pixels		786,432 pixels (H1,024 x V768)
Resolution		1,024 x 768 color pixels (XGA)
Digital zoom		x1.2
Focus		Power focus
Lamp		230W UHB
Light output (brightness)		3,000 Lumens
Contrast ratio		500:1
Audio		7W
Keystone correction		Manual Vertical/Horizontal Keystone
Power supply		AC100-120V/AC220-240V
Operating temperature		5-35°C (41-95°F)
Input signals	Computer input	VGA, SVGA, XGA, SXGA, UXGA, MAC16"
	Video input	NTSC, NTSC4.43, PAL, SECAM, M-PAL, N-PAL HDTV: 720p@50/60, 1080i@50/60, 1080p@50/60 SDTV: 480i, 480p, 576i, 576p
Input/output terminals	Video input	S-Video: Mini Din 4-pin x 1, Composite video: RCA jack x 1 Component video: RCA jack x 3
	Audio input	Stereo Mini jack x 2, RCA jack x 2 (L/R)
	Computer input	Analog RGB: 15-pin Mini-Dsub x 2
	Audio output	Stereo Mini jack x 1
	Monitor output	Analog RGB: 15-pin Mini-Dsub x 1
	Control	9-pin Dsub x 1 for RS232C
Agency certifications		UL/cUL, FCC Part15 class B, AS/NZS CISPR22 class B, CE, GOST-R
Dimensions (WxHxD)		397 x 131 x 356mm (15.63" x 5.16" x 14.02") [excluding protruding part, when mirror is closed.]
Weight		5.8kg (12.8 lbs.)
Standard accessories		Computer cable, Remote Control, Batteries, Cable cover, Power cord, User's manual, Security label

Cable cover

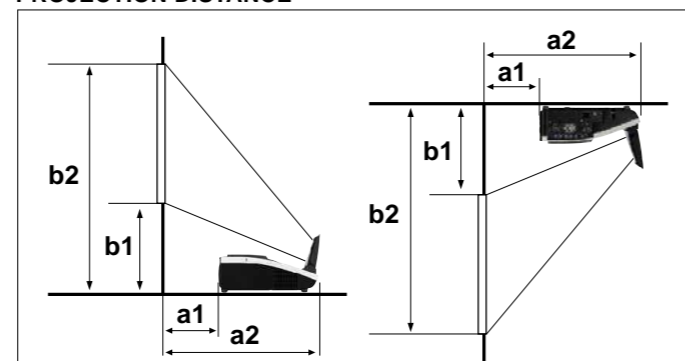| Optional accessories	Lamp: DT00893, Filter unit: UX35381, Soft case: CA100

Soft Case (CA100)

TERMINALS

- Monitor Out
- Control (RS-232C)
- Security Bar
- Computer In 2
- Computer In 1
- Audio Out
- Audio In 1
- Audio In 2
- S-Video
- Component Video
- Composite Video
- Kensington Lock
- Audio In 3 (L/R)

DIMENSIONS

397mm (15.63")
379mm (14.92")
356mm (14.02")
391mm (15.39")
131mm (5.16")
113mm (4.45")
139mm (5.47")
225mm (8.86")

PROJECTION DISTANCE

a2
a1
b1
b2
b1
a1
a2

Screen Size (4:3 Screen)	a1	a2	b1	b2
60 type (inch), 1.5m	9.6cm (4")	47.4cm (19")	28.9cm (11")	120.4cm (47")
70 type (inch), 1.8m	17.2cm (7")	55.0cm (22")	32.6cm (13")	139.3cm (55")
80 type (inch), 2.0m	24.8cm (10")	62.6cm (25")	36.2cm (14")	158.2cm (62")
90 type (inch), 2.3m	32.4cm (13")	70.2cm (28")	39.9cm (16")	177.1cm (70")
100 type (inch), 2.5m	39.9cm (16")	77.7cm (31")	43.6cm (17")	196.0cm (77")

- Manufacturer's recommended size is 60 type (inch), 1.5m – 100 type (inch), 2.5m.
- Tolerance ±8% (for projection distance a2)
- Final specifications may vary slightly.

Consideration for the Environment

■ **Compliance with EU Directive RoHS*1**

*1 RoHS is the acronym of "DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment".

■ **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**

■ **Whisper mode**
Whisper mode provides power saving.

- 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 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.

dnx pixelworks™

HITACHI

3,000 Lumens — Bright and Clear!
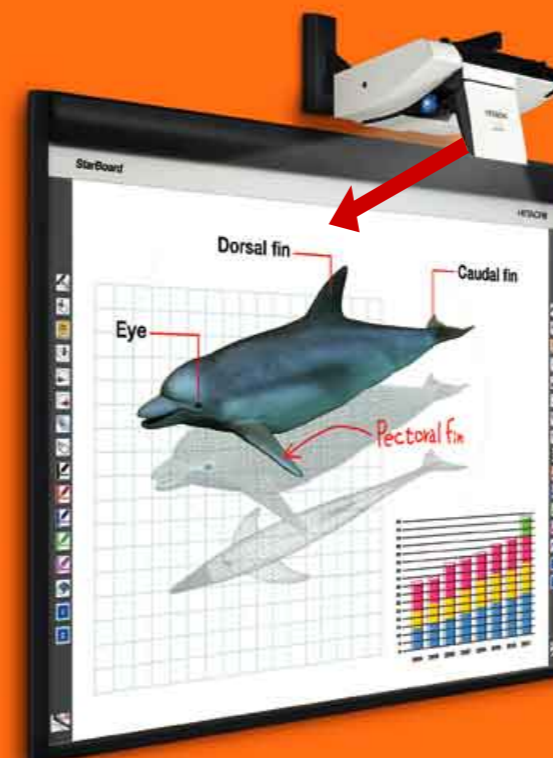
77 type
interactive whiteboard
(77 inches/196cm screen)

projected at **60.3cm**
(24 inches)

StarBoard
Dorsal fin
Caudal fin
Eye
Pectoral fin

3LCD

Conducting lessons is easier and more effective with high brightness, ultra-short throw and a wide variety of functions.

Ultra-Short Throw LCD Projector
CP-A200

Curved whiteboard

■ Perfect Fit

Perfect Fit enables quick adjustment of the projected image by moving its four corners one at a time.

In addition, barrel or pincushion distortion, which occur on blackboards or whiteboards with rounded surfaces, can easily be corrected. Making adjustments is easy with the remote control and the on-screen operating menu.

Adjust each of the four corners.

Adjust for barrel or pincushion distortion that occurs on rounded surfaces.

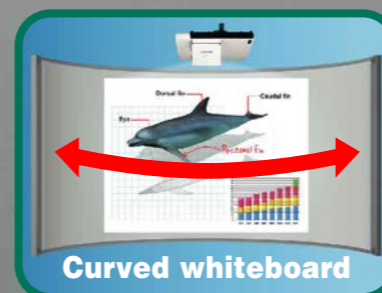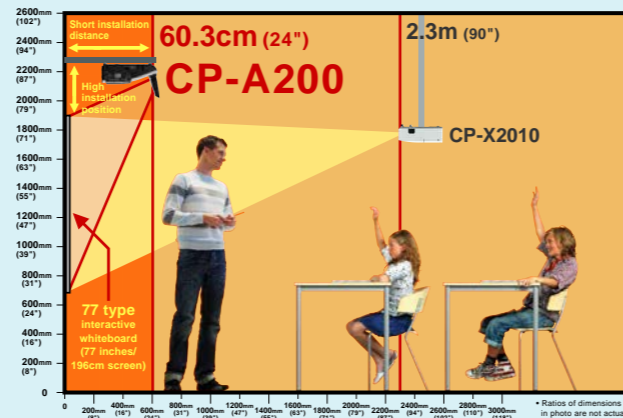---

■ 3,000 Lumens Light Output (Brightness)

The CP-A200 provides high brightness of 3,000 lumens, allowing the projection of easily visible images, even in bright rooms. It can be used without darkening the room, so pupils can take notes, permitting more efficient lessons.

■ Ultra-Short Throw Length

The CP-A200 features two of Hitachi's latest technologies: a free-shaped plastic lens and a mirror projection system. Even in a classroom with limited space, it can project large images onto a 77 type (inch), 196cm interactive whiteboard from a distance of only 60.3cm (24 inches). Ultra-short throw and the projector's high installation position reduce shadows from the teacher's hands and body on the interactive whiteboard. Annoying glare from the projector's light source and hot exhaust air are also reduced, allowing lessons to be conduced with greater ease. In addition, the short distance from the screen makes installation easier and permits the use of a short connection cable.

Short installation distance

60.3cm (24")
CP-A200

2.3m (90")
CP-X2010

High installation position

77 type interactive whiteboard (77 inches/196cm screen)

• Ratios of dimensions in photo are not actual.

■ Hybrid Filter

The Hybrid Filter requires less frequent maintenance and cleaning, making longer operation possible. Filter maintenance frequency has been improved* from every 400 hours to every 2,000 hours.

* In comparison to CP-A100.
• Actual filter maintenance necessity varies according to environment.

■ Easy Maintenance

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

Lamp Door on the top

Filter Cover on the back

■ Template Function*

When projecting onto a whiteboard, blackboard, etc., this function projects lines, making writing on the board easier. You can choose four types of lines: black lines on a white background, black lines on a white grid, white lines on a black background or white lines on a black grid. * Patent pending

Black lines on a white grid

Black lines on a white background

■ Audio Pass Through*

Audio can be output via external speakers in standby condition. This saves lamp life when only sound is required.

* When in Normal mode at standby setting. It does not function in Saving mode.

■ Versatile Security Functions

The CP-A200 is equipped with a security bar that allows the attachment of a security chain. The PIN Lock function limits the number of users. The MyScreen function can be used for owner identification, and is also protected by a PIN Lock.

Security bar

■ Power Saving Mode

The Power Saving mode at standby setting reduces standby power consumption to less than 5W. The following features are disabled: RS-232C control except power-on command, and audio capability including audio pass through.

■ Daytime Mode

Projected images may sometimes be difficult to see under bright lighting. The Daytime Mode uses image quality correction technology to counter the effects of light, ensuring clear, vivid images.

Normal mode   Daytime mode

■ Other Features

• Low Noise of 28dB* (Whisper Mode) • Blackboard or Whiteboard Modes at Picture Setting • Input Source Naming • 4-Second Quick Start • Direct Power On/Off • Resolution Preset and Custom Modes • My Button • My Text • Horizontal Keystone Correction • Versatile, Easy Connectivity • Serial No. Label on Side • Security Label Included • My Source/Document Camera Button on Remote Controller • IR Remote Frequency Change • Closed Caption

* Typical. Tested in 23°C environmental conditions.

Various situations where it can be used

■ Interactive whiteboard use

Using it together with an interactive whiteboard enables presentations and lessons to be more easily understood.

■ Store window use

It can be used in narrow spaces such as show windows in stores or booths at exhibitions.

■ Amusement space use

It can be used to give effective presentations in complex spaces such as amusement facilities.