

HITACHI
Inspire the Next

CP-X505 • CP-X605 • CP-X608



High end installation LCD Projector's
for medium to large venues



Easy maintenance

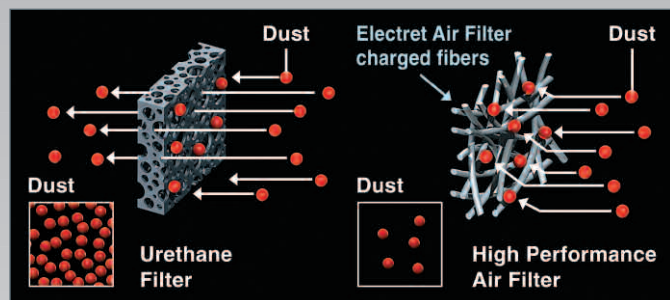


Easy lamp access

The door used to replace the lamp is on the top of the projector, making it easy to change the lamp when the projector is installed on the ceiling.

High performance air filter

The air filter uses Electret Air Filter charged fibers to efficiently filter out dust so performance does not suffer even in dusty environments.



Flexible installation

Optional lenses

The four optional lenses, give the user the flexibility to use their projector in a multitude of environments.

	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 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 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 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

Manual lens shift

The lens can be moved manually to shift the position of the image. It can be moved +/-20 degrees to the left and right, and +/-40 degrees up and down on a the screen. Fine adjustments after ceiling installation can be done using a screwdriver. Adjusting the screen position can also be done easily.



Higher image and sound quality

High image quality

The CP-X608, CP-X605 and CP-X505 have a variety of functions to improve the images that they project. Thanks to Motion Adaptive Progressive Scan, 3:2 Pull Down, Noise Reduction, Equalizing Gamma and 3D Y/C Separation, you can even project moving pictures with beautiful clarity.

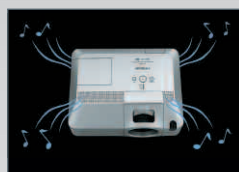
Active Iris

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



Quiet 30dB Whisper mode

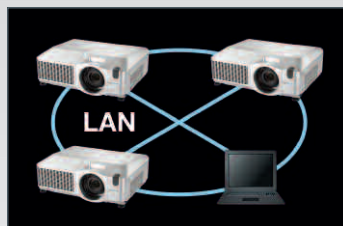
In order to ensure high quality presentations with this range of projectors, we have designed them to have a 30dB noise level (whisper mode), surprisingly low for this category of projector. Through careful noise suppression, they provide an ideal audiovisual environment.



Built-in 16W

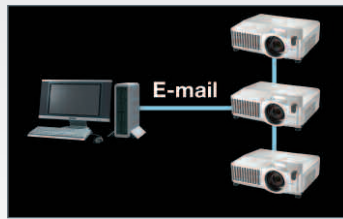
The CP-X608/X605/X505 have four speakers with a high output of 4W. You get 16W of total output without the need to connect external speakers. And thanks to SRS WOW*, the sound is both dynamic and clear.

More detailed management



Projector monitoring and control

The The CP-X608, CP-X605 and CP-X505 can be integrated into a LAN for centralised monitoring of power, input, lamp time and other functions. In fact, more than 500 projectors can be monitored from a single PC. It is also possible to control the power and other functions of a single specified projector or of all projectors linked via the LAN. This makes operating projectors installed in different rooms a simple task. Moreover, Projector Monitoring and Control can be applied to both wired and wireless networks.



E-mail alerts

Using Simple Network Management Protocol (SNMP), the projector is able to remotely monitor and diagnose its status and the status of other network applications with SNMP Management Software. When an error or trouble occurs, the projector uses Simple Mail Transfer Protocol (SMTP) to send a warning message to up to five e-mail addresses.

Easy and simple presentations

Wireless Presentations (CP-X608)



With the CP-X608, you don't need a cable for connection to a PC — it's done wirelessly! It's quick and easy to start your presentation, and there's no cable to get in your way. You can turn the projector on and off and adjust the volume with a control bar on the PC instead of using a remote control.

PC-Less Presentations (CP-X608)



More flexibility! You can use HDD media players, USB storage devices or ultra-handry SD cards to give presentations without a PC. In addition to compatibility with a variety of files, including MPEG4 (standard profile), JPEG, BMP and PNG, you enjoy the advantage of auto slide show and endless play functions.

Control and monitoring via web browser

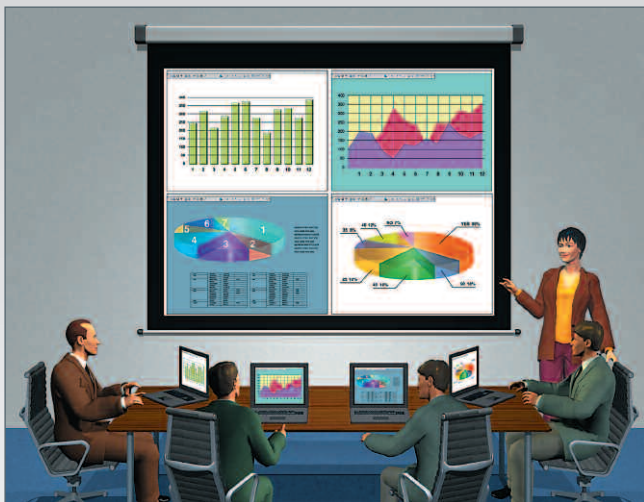
Projectors can be controlled and monitored via a web browser without having to download and install application software.

Still image transfer (e-SHOT)*

Using this function, VGA-quality still pictures can be transferred from a PC to the projector. And by using the Schedule function, the images can be shown at preset times for using the screen like a message board.

Multi screen function for conferences (CP-X608)

Images from up to four PCs can be shown simultaneously on the screen to add more versatility to your presentations. Any of the images can be selected for viewing on the full screen.



Projection of external data* (CP-X608)

Data received by the control PC via LAN from an external memory device can be output from the projector. This means you have a much wider range of material to choose from.

Standard features

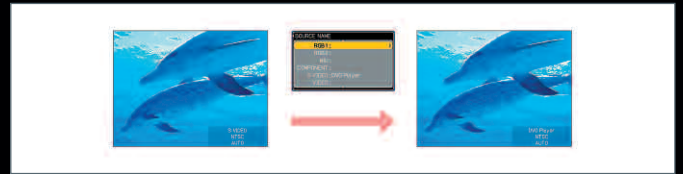
■ **3500/4000 ANSI Lumens** with optical zoom.

■ **Full Connectivity** - 2 x RGB IN, 1 x Digital RGB IN (M1-D) and RGB monitor out with audio in/out and versatile video connections.



■ **Quick Start and Instant Off** - These features are ideal for quick presentations. The image will appear in seconds after power on and the unit can be instantly powered off after a presentation.

■ **Input Source Naming** - The name of any input can be changed to one of your own choosing for easier use.



■ **My Button** - There are 2 user programmable buttons on the remote control that may be set with any command. The user can set up these buttons from a simple, easy to understand menu.



■ **'Resolution Preset'** ensures special resolutions, such as WXGA will be recognised and resized and placed in the optimum position. Custom modes can also be stored to remember user's own resolutions.



■ **Whiteboard Mode and Blackboard Mode** - Images displayed on whiteboards may be too bright, whiteboard mode changes the gamma curve to reduce the peak white brightness allowing users to enjoy the benefits of a bright projector but reducing potential health and safety risks of looking directly into one. Blackboard mode provides better colour balance when projecting onto a coloured background.



■ **Anti Theft Features** - The three projectors have an impressive suite of anti-theft measures - security bar is a steel bar embedded in the chassis which provides a strong anchor point for a chain. It is also a visible security feature to prevent casual removal:



- Pin-Lock is a means of in-activating the projector until a user preset key sequence is input
- 'My Screen Lock' allows users to personalise the start up screen with a warning or ownership message and lock this screen with a pin code
- A transition detector operates whenever the projection angle or settings are changed from the installed position - this is locked by a pin code

* To use these functions, it is necessary to download the appropriate software. Ask your dealer for details.

CP-X505

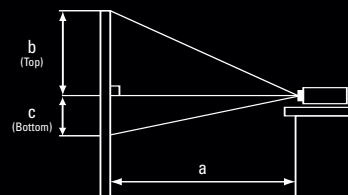
CP-X605

CP-X608



Technical Specifications

MODEL	CP-X505	CP-X605	CP-X608
LCD Panel	0.8" P-Si TFT x 3	0.8" P-Si TFT x 3	0.8" P-Si TFT x 3
Resolution	XGA: 1024 dots x 768 lines	XGA: 1024 dots x 768 lines	XGA: 1024 dots x 768 lines
Brightness	Normal Mode Whisper Mode	4000 ANSI Lumens 3200 ANSI Lumens	4000 ANSI Lumens 3200 ANSI Lumens
Contrast Ratio	1000:1 (theatre mode)	1000:1 (theatre mode)	1000:1 (theatre mode)
Lens	F1.7-2.1, f=24-29mm, Manual Zoom x 1.2, Manual Focus	F1.7-2.1, f=24.3-29.2mm, Manual Zoom x 1.2, Manual Focus	F1.7-2.1, f=24.3-29.2mm, Manual Zoom x 1.2, Manual Focus
Lamp	285W UHB	285W UHB	285W UHB
Focus Distance	0.9-10.8m (Wide), 1.1m-13.0m (Tele)	0.9-10.8m (Wide), 1.1m-13.0m (Tele)	0.9-10.8m (Wide), 1.1m-13.0m (Tele)
Distance to Width Ratio (:1)	1.5 (Wide), 1.8 (Tele) with standard lens	1.5 (Wide), 1.8 (Tele) with standard lens	1.5 (Wide), 1.8 (Tele) with standard lens
Diagonal Display Size	30"-350" (1.8m@60")	30"-300" (1.8m@60")	30"-300" (1.8m@60")
Number of Colour	8 Bits/colour, 16.7M colours	8 Bits/colour, 16.7M colours	8 Bits/colour, 16.7M colours
Computer Compatibility	IBM Compatible VGA, SVGA, XGA, SXGA/SXGA+, UXGA Capability, MAC 13", MAC 16" (Pixelworks chip)	IBM Compatible VGA, SVGA, XGA, SXGA/SXGA+, UXGA Capability, MAC 16" (Pixelworks chip)	IBM Compatible VGA, SVGA, XGA, SXGA/SXGA+, UXGA Capability, MAC 16" (Pixelworks chip)
Video Compatibility	NTSC/PAL/-BGDHI/SECAM/PAL-M,N/NTSC4.43 SDTV: 525i(480i), 525p(480p), 625i(575i) HDTV: 750p (720p@60Hz), 1125i(1080i@50/60Hz)	NTSC/PAL/-BGDHI/SECAM/PAL-M,N/NTSC4.43 SDTV: 525i(480i), 525p(480p), 625i(575i) HDTV: 750p (720p@60Hz), 1125i(1080i@50/60Hz)	NTSC/PAL/-BGDHI/SECAM/PAL-M,N/NTSC4.43 SDTV: 525i(480i), 525p(480p), 625i(575i) HDTV: 750p (720p@60Hz), 1125i(1080i@50/60Hz)
Plug & Play	DDC2B (RGB1, M1-D)	DDC2B (RGB1, M1-D)	DDC2B (RGB1, M1-D)
Frequency Range	Horizontal: 15-91KHz, Vertical 50-120Hz	Horizontal: 31.5-106KHz, Vertical 56-120Hz	Horizontal: 15-91KHz, Vertical 50-120Hz
Keystone Correction	1:1-9:1 upward shift	1:1-9:1 upward shift	1:1-9:1 upward shift
Speakers	4 x 4W	4 x 4W	4 x 4W
Other	MENU: 17 Languages (English, French, German, Spanish, Italian, Norwegian, Dutch, Japanese, Portuguese, Simplified Chinese, Korean, Traditional Chinese, Swedish, Russian, Finnish, Polish, Turkish), Freeze, Magnifying, Auto Adjustment, Search, Page Up & Down (for USB mouse), Equalizing Digital Gamma Correction, Colour Balance, 2-3 pull down, Progressive Scan, Manual V Keystone, Manual H Keystone, My Screen, My Memory, My Button, Blackboard Mode, Whiteboard Mode, Source Naming, Easy Lamp replace from Top, High Performance Air Filter on side, Serial Number label on side, Quick On, Direct On, Direct Off, Security Bar, Security Label included, PIN Lock, Myscreen PIN lock, Keypad Lock, Kensington Slot	MENU: 17 Languages (English, French, German, Spanish, Italian, Norwegian, Dutch, Japanese, Portuguese, Simplified Chinese, Korean, Traditional Chinese, Swedish, Russian, Finnish, Polish, Turkish), Freeze, Magnifying, Auto Adjustment, Search, Page Up & Down (for USB mouse), Equalizing Digital Gamma Correction, Colour Balance, 2-3 pull down, Progressive Scan, Manual V Keystone, Manual H Keystone, My Screen, My Memory, My Button, Blackboard Mode, Whiteboard Mode, Source Naming, Easy Lamp replace from Top, High Performance Air Filter on side, Serial Number label on side, Quick On, Direct On, Direct Off, Security Bar, Security Label included, PIN Lock, Myscreen PIN lock, Keypad Lock, Kensington Slot	MENU: 17 Languages (English, French, German, Spanish, Italian, Norwegian, Dutch, Japanese, Portuguese, Simplified Chinese, Korean, Traditional Chinese, Swedish, Russian, Finnish, Polish, Turkish), Freeze, Magnifying, Auto Adjustment, Search, Page Up & Down (for USB mouse), Equalizing Digital Gamma Correction, Colour Balance, 2-3 pull down, Progressive Scan, Manual V Keystone, Manual H Keystone, My Screen, My Memory, My Button, Blackboard Mode, Whiteboard Mode, Source Naming, Easy Lamp replace from Top, High Performance Air Filter on side, Serial Number label on side, Quick On, Direct On, Direct Off, Security Bar, Security Label included, PIN Lock, Myscreen PIN lock, Keypad Lock, Kensington Slot
Wireless	-	-	IEEE802.11b/g, multi image display (up to 4 PCs)
PC less presentation	-	-	USB slot, SD slot support, motion picture (MPEG4 standard profile), JPEG, BMP, PNG format
Wired LAN	Network software (PJ Man, PJ Ctrl) support, Image transfer support, e-shot	Network software (PJ Man, PJ Ctrl) support, Image transfer support, e-shot	Network software (PJ Man, PJ Ctrl) support, Image transfer support
Data Input	2 x 15-pin Mini D-sub 1 x M1-D (Digital RGB) input	2 x 15-pin Mini D-sub 1 x M1-D (Digital RGB) input	2 x 15-pin Mini D-sub 1 x M1-D (Digital RGB) input
Data Output	1 x 15-pin Mini D-sub	1 x 15-pin Mini D-sub	1 x 15-pin Mini D-sub
Video Input	1 x RCA Jack 1 x S-Video 3 x RCA Jack for component	1 x RCA Jack 1 x S-Video 3 x RCA Jack for component	1 x RCA Jack 1 x S-Video 3 x RCA Jack for component
Audio Input	2 x Stereo Mini Jack 2 x Pair RCA (L/R) (Selectable on OSD)	2 x Stereo Mini Jack 2 x Pair RCA (L/R) (Selectable on OSD)	2 x Stereo Mini Jack 2 x Pair RCA (L/R) (Selectable on OSD)
Audio Output	1 x Stereo Mini Jack	1 x Stereo Mini Jack	1 x Stereo Mini Jack
Control	1 x 9-pin D-sub for RS232C Control 1 x USB for Mouse Control (via M1-D) RJ-45 for wired LAN	1 x 9-pin D-sub for RS232C Control 1 x USB for Mouse Control (via M1-D) RJ-45 for wired LAN	1 x 9-pin D-sub for RS232C Control 1 x USB for Mouse Control (via M1-D) RJ-45 for wired LAN
Power Supply	100-120/220-240V, auto switching	100-120/220-240V, auto switching	100-120/220-240V, auto switching
Power Consumption	460W	460W	460W
Dimensions (W x H x D)	418 x 139 x 319mm (excluding feet and extrusions)	420 x 139 x 319mm (excluding feet and extrusions)	420 x 139 x 319mm (excluding feet and extrusions)
Weight	7.1Kg	7.1Kg	TBD
Noise Level	36dB/30dB	36dB/30dB	36dB/30dB
Miscellaneous	Lamp and temperature indicator light, Power indicator light, Ceiling Mount image, Rear Projection Image	Lamp and temperature indicator light, Power indicator light, Ceiling Mount image, Rear Projection Image	Lamp and temperature indicator light, Power indicator light, Ceiling Mount image, Rear Projection Image, SD wireless receiver
Certification	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	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	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
Accessories Supplied	RGB cable, Remote Control (with laser pointer and wired jack), Batteries for Remote Control, Safety Instruction, Quick Guide, 14 languages User Manual (English, French, German, Spanish, Italian, Norwegian, Dutch, Portuguese, Simplified Chinese, Korean, Swedish, Russian, Finnish, Polish), Power Cord, Security Label, Lithium Battery for Scheduling Function	RGB cable, Remote Control (with laser pointer and wired jack), Batteries for Remote Control, Safety Instruction, Quick Guide, 14 languages User Manual (English, French, German, Spanish, Italian, Norwegian, Dutch, Portuguese, Simplified Chinese, Korean, Swedish, Russian, Finnish, Polish), Power Cord, Security Label, Lithium Battery for Scheduling Function	RGB cable, Remote Control (with laser pointer and wired jack), Batteries for Remote Control, Safety Instruction, Quick Guide, 14 languages User Manual (English, French, German, Spanish, Italian, Norwegian, Dutch, Portuguese, Simplified Chinese, Korean, Swedish, Russian, Finnish, Polish), Power Cord, Security Label, Lithium Battery for Scheduling Function
Optional Lenses	FL-601: Fixed Short Throw (1: 0.8), F=2.3 (f=13mm) SL-602: Short Throw (1:1.2-2.0), F=1.9-2.6 (f=20-32mm) LL-603: Long Throw (1:2.0-3.9), F=2.1-2.9 (f=32-63mm) UL-604: Ultra long Throw(1:3.9-7.4), F=2.2-3.1 (f=63-117mm)	FL-601: Fixed Short Throw (1: 0.8), F=2.3 (f=13mm) SL-602: Short Throw (1:1.2-2.0), F=1.9-2.6 (f=20-32mm) LL-603: Long Throw (1:2.0-3.9), F=2.1-2.9 (f=32-63mm) UL-604: Ultra long Throw(1:3.9-7.4), F=2.2-3.1 (f=63-117mm)	FL-601: Fixed Short Throw (1: 0.8), F=2.3 (f=13mm) SL-602: Short Throw (1:1.2-2.0), F=1.9-2.6 (f=20-32mm) LL-603: Long Throw (1:2.0-3.9), F=2.1-2.9 (f=32-63mm) UL-604: Ultra long Throw(1:3.9-7.4), F=2.2-3.1 (f=63-117mm)
Optional Lamp	DT00771	DT00771	DT00771



- a: Projection Distance
b: Lens centre to the higher edge of the screen
c: Lens centre to the lower edge of the screen

Image Size 4:3				
Screen Size (Diagonal)	Projection Distance (a)		Screen Height (cm)	
	min. (m)	max. (m)	b (top)	c (bottom)
40" (1.0)	1.2	1.4	55	6
60" (1.5)	1.8	2.2	82	9
100" (2.5)	3.0	3.6	137	15
150" (3.8)	4.6	5.4	206	23
200" (5.1)	6.1	7.4	274	30
300" (7.6)	9.2	11.1	411	46
350" (8.9)	10.8	13.0	480	53

Image Size 16:9				
Screen Size (Diagonal)	Projection Distance (a)		Screen Height (cm)	
	min. (m)	max. (m)	b (top)	c (bottom)
40" (1.0)	1.3	1.6	51	-2
60" (1.5)	2.0	2.4	77	-2
100" (2.5)	3.3	4.0	129	-4
150" (3.8)	5.0	6.0	193	-6
200" (5.1)	6.7	8.0	257	-8
300" (7.6)	10.0	12.1	386	-12
350" (8.9)	11.7	14.1	450	-15