

CP-A222WNM CP-EX250 HIT-FHD6500PC Touch
CP-AW2519NM CP-EX300 HIT-FHD6500 Touch



Education

LCD Projectors and Interactive Flat Panels

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The ideal solution for any education environment



Compatible with
Projector Quick Connection App



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HITACHI
Inspire the Next

Make the most of your lessons with Hitachi Education Projectors

As a teacher, you face challenges every day. Challenges that include tight budgets and restricted space – and the need to provide effective lessons that will keep your pupils involved and stimulated. The Hitachi education projector range can provide solutions to all those challenges –affordable, versatile projectors ready to go to work anywhere – and let you deliver the effective, interactive lessons your classes deserve.

**3 Year
projector and
lamp warranty**
on all Hitachi
Education projectors

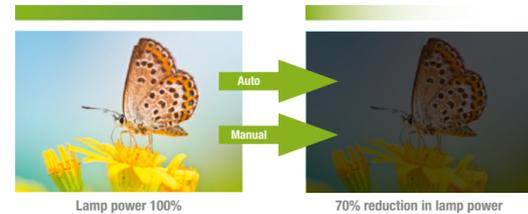
Low Total Cost of Ownership

Eco features based on ImageCare® technology

ImageCare combines optimal picture performance with maximum energy savings. This technology has been integrated to enhance our existing industry-leading eco features. **Find out how much money and energy you can save using our Energy Savings Calculator at: www.hitachidigitalmedia.com/energysavings**

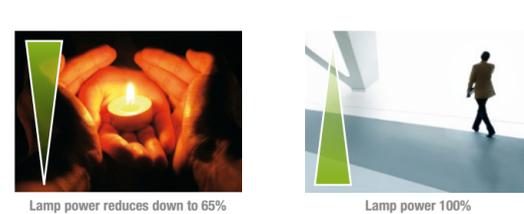
Saver Mode

The Saver Mode reduces lamp power by 70% compared to Normal Mode, resulting in considerable energy savings. You can set the time for Saver Mode from 1 to 30 minutes. If the projected image does not change within the set time, the Saver Mode is activated.



Intelligent Eco Mode

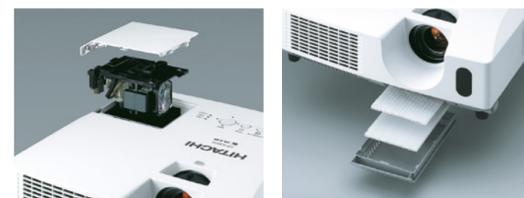
When Intelligent Eco Mode is selected, the lamp power adjusts according to screen brightness. Lamp power decreases when the image is dark and increases when the image is bright. Using Intelligent Eco Mode increases the contrast ratio of the projector while decreasing the use of electricity.



Long lamp and hybrid filter life*

Now you can benefit from a longer lamp and filter life than ever before. Using Normal Mode, the lamp and filter life is extended up to 5000 hours* – equivalent to three hours use a day for ten years. A Hitachi hybrid filter should last as long as the projector lamp. And because replacement lamps come with a new filter, you can simply replace both at the same time, making filter cleaning unnecessary. Both the lamp and filter doors are easily accessible, making maintenance and replacement of parts simple to do.

*The CP-EX250 and CP-EX300 have a urethane filter which lasts up to 2000 hour and a lamp life that lasts up to 6000 hours.



Outstanding picture quality

High picture quality

Hitachi education projectors bring together innovative features for superior picture quality. Motion Adaptive Progressive Scan reduces line flicker, boosting resolution and smoothing moving images. Noise Reduction boosts clarity. And Hitachi's unique Equalising Gamma Function helps you customise gamma and colour balance to suit your preferences.



Blackboard and Whiteboard Modes

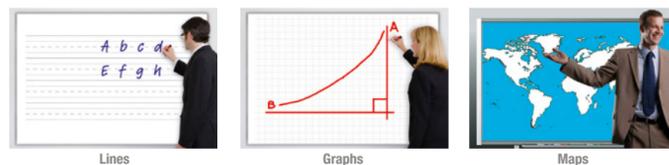
Projecting onto coloured backgrounds can make images appear dull – shiny backgrounds can make them uncomfortably bright. With our Blackboard and Whiteboard modes, you can ensure optimal brightness whether the screen is black, green or shiny white.



Usability

Template function

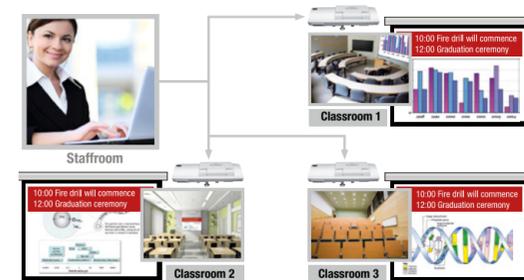
This unique Hitachi feature allows you to project lines, grids and maps onto a whiteboard, blackboard or flip chart, to make writing and drawing and explaining easier.



Advanced network features and versatile connectivity

Messenger function

Send text to multiple, networked projectors instantly or at a specified time. This is ideal for projecting daily work schedules, university campus notifications, school activities or any information that needs to go out over a large area – fast.



Wireless capability*

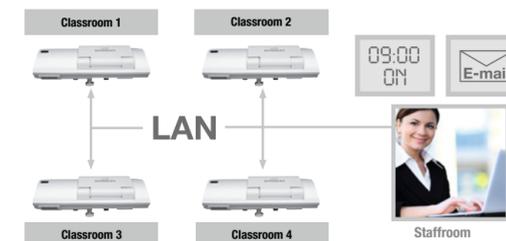
The USB wireless adaptor supports all IEEE802.11b/g/n networks and enables the projector and computer to communicate both directly or via a wireless network, letting you run presentations or lessons wirelessly from your laptop.



*Available on the CP-A222WNM only.

Centralised management and reporting

Using a single PC, you can create html reports for all your networked projectors. This can make maintenance simpler – for example, by logging any projector that isn't working or due for maintenance. Manage and control multiple projectors over your LAN. You can also schedule the projector to turn on and off automatically. And all of this functionality can be easily accessed via a web browser.



iOS Connectivity*

Using our 'Projector Quick Connection' application, users can wirelessly display documents, images and web pages from their iPad®, iPod touch® and iPhone® on our CP-A222WNM projector. The application allows users to control the projector via their iOS devices.

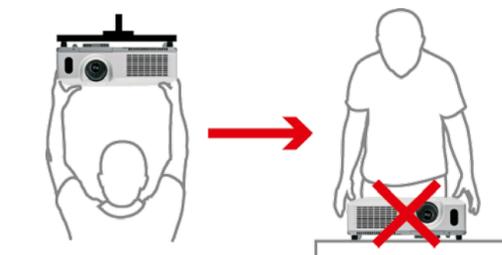


*Our 'Projector Quick Connection' application can be downloaded from the App Store™. Available using the following file formats: jpg, bmp, png, gif, PDF, Excel®, Word®, PowerPoint®, Keynote®, Numbers®, Pages® and Web pages. iOS Connectivity available on the CP-A222WNM only.

Security built-in

Transition Detector

If the projector is removed from its installed location, it triggers Hitachi's unique Transition Detector. This renders the projector inoperative unless a password is entered.



Pin-Lock

The projector PIN-Lock, ensures only authorised people can use the projector by entering their unique PIN code. This screen can be branded for your school or college using the MyScreen function.



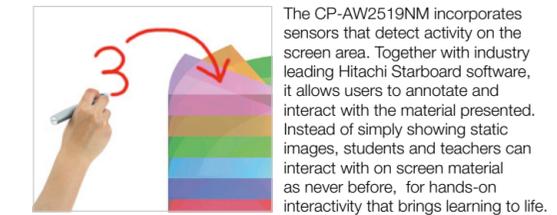
Security bar

For physical security, a chain can be added with ease.

Interactive classroom technology

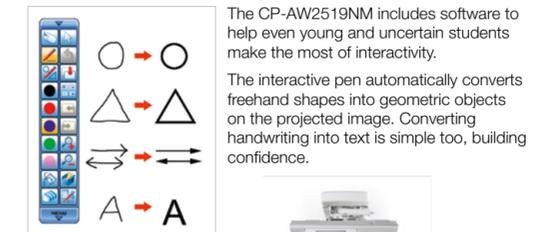
Interactivity is a valuable classroom asset, but cost and complexity is often a barrier. At Hitachi we identified the need for a different approach. The new CP-AW2519NM is an innovative solution that delivers interactivity anywhere there is a flat surface, an existing whiteboard – or even a bare wall.

Hands on learning



The CP-AW2519NM incorporates sensors that detect activity on the screen area. Together with industry leading Hitachi Starboard software, it allows users to annotate and interact with the material presented. Instead of simply showing static images, students and teachers can interact with on screen material as never before, for hands-on interactivity that brings learning to life.

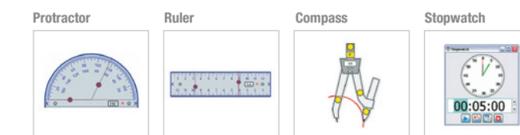
Convert ideas into clear words and images



The CP-AW2519NM includes software to help even young and uncertain students make the most of interactivity.

The interactive pen automatically converts freehand shapes into geometric objects on the projected image. Converting handwriting into text is simple too, building confidence.

Use familiar tools to create understanding



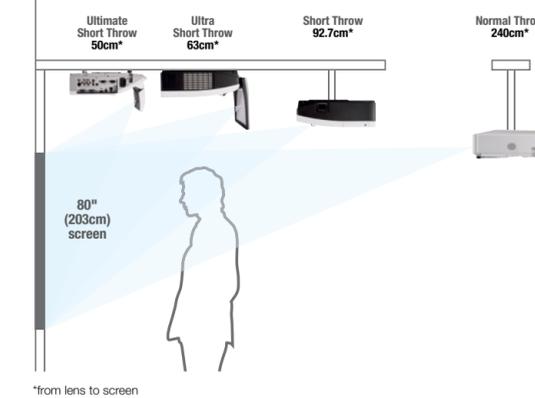
The interactive pen lets you operate a compass, ruler, protractor, stopwatch and other familiar classroom tools on the projected image, making lessons easier to understand, and techniques easier for pupils to follow.



"We wanted to introduce these interactive technologies throughout the school, so that our students were more engaged and wanting to be in the classrooms. The teacher is now a facilitator of learning and the student has more ownership within the learning experience."

Monique Corcoran, Patterson Lakes Primary School

Flexible design



Ultimate Short Throw Technology*

Ultimate Short Throw projectors make installation simple, even in crowded and compact classrooms. With conventional technology, extremely short throw distances often result in distortion and poor image quality. Hitachi's Ultimate Short Throw projectors achieve outstanding picture clarity, with perfect fit technology distortions can be eliminated, even on imperfect walls – ensuring your projector can go to work anywhere.

Our Ultimate Short Throw projectors have been continuously developed to make them a better, more versatile solution to your classroom needs.

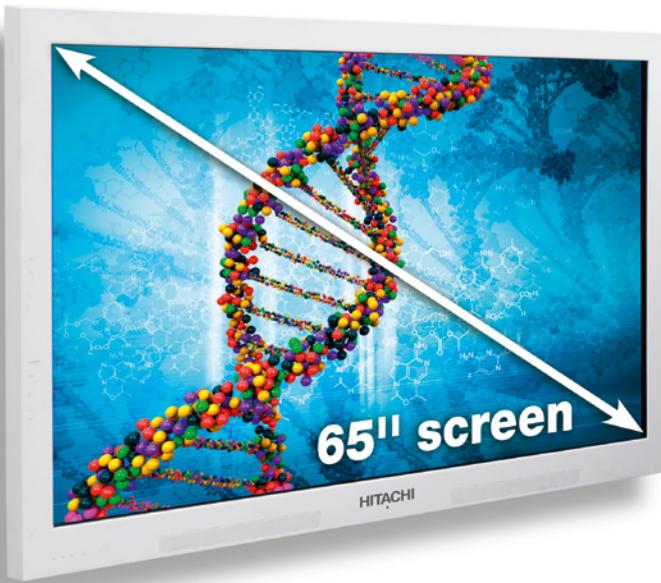
With the bundled wall mount and optional table top kit you can transform any existing whiteboard, wall or table top into an interactive surface.

*Available on the CP-AW2519NM and CP-A222WNM only.



Hitachi Interactive Flat Panels

HIT-FHD6500PC Touch/HIT-FHD6500 Touch. With these multi-touch displays pupils can do more than just watch – they can interact with the on-screen content. Let them enjoy providing answers, showing their understanding and becoming involved in lessons as never before.



Four point multi-touch display for collaborative learning

LCD component	65" TFT LCD (64.5" (163.8cm) diagonal)
Backlight	Edge LED backlight
Max. resolution	1920 x 1080
Max. colours	16.7 million colours
Brightness/Contrast ratio	360 cd/m ² /4000:1
Viewing angle (H/V)	178°/178°
Video colour system	480i, 480p, 576p, 720p, 1080i/30, 1080i/50, 1080p/24
Signal (analogue)	VGA, SVGA, XGA, WXGA, Full HD
Panel life time	30,000 hours
Frequency	60Hz
Input terminals	Digital HDMI x 1 supporting HDCP decoding
	Analogue VGA x 1 D-Sub 15-pin
	PLUG & PLAY DDC2B (VESA) for computer HDMI-1, VGA
	Video No
	Component No
	Audio Microphone mini 3.5mm jack x 1, Line out 3.5mm x 1 Main board : Microphone x 1, Headphone x 1
	Serial (RS-232C) D-Sub 9-pin x 1 for device control
	USB USB x 1 (for external usage of touch screen) Main board : 2.0 USB x 2
	Wireless slot Half mini PCI-E connector for Wi-Fi card x1
Output terminals	Audio Line out (3.5mm mini jack) x 1
	Serial (RS-232C) D-Sub 9-pin x 1
	Digital No
	For external speaker Total 20W speaker support
Network	RJ-45 10/100/1000 Mbps Ethernet with PC option only
	Wireless 802.11 b/g/n with PC option only
OSD	Independent from languages, the OSD is iconic
Storage	2.5" SATA HDD with PC option only
Speaker	10W + 10W
Touch panel	Detection method Infrared blocking detection method, 4 simultaneous touches
	Detection area 1428.48mm (H) x 803.52mm (V)
	Touch accuracy ±2mm (over 90% Area)
	PC connector USB 2.0
	Driver Win7/8 32/64 bits OS inbox driver and driver for touch screen calibration
	Touch pen Passive stylus, finger or any IR opaque object
Power requirement	220V~50Hz 1500mA, supporting 100/110Volts
Operating/storage humidity	Operating humidity: 90% relative humidity non-condensing
Power consumption	220W/1W/1W
Power consumption operating/standby	300W/1W/1W
Dimensions (mm)	1,562 x 110 x 960
Weight	70Kg
Main accessories	Power cable (1450mm), IB, remote controller and battery (CR2025 3V), HDMI cable (1500mm), Dipole Wi-Fi antenna, stylus pen, driver DVD
Certification	RoHS, CB, S-Mark



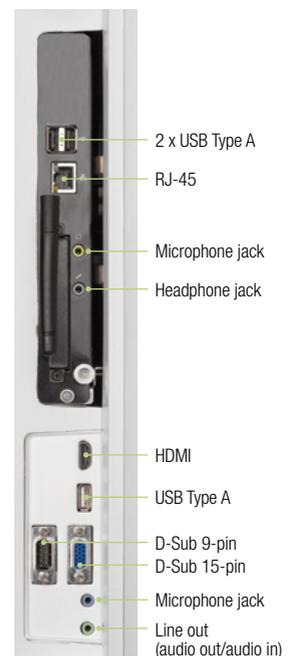
- Long life with minimal maintenance

- Can be wall or trolley mounted*1
- Versatile connectivity

- Compatible with most software packages*2

- For use in a variety of applications

The versatility of the Interactive panel lends itself to a variety of uses from university libraries to foyers and lecture theatres to classrooms.

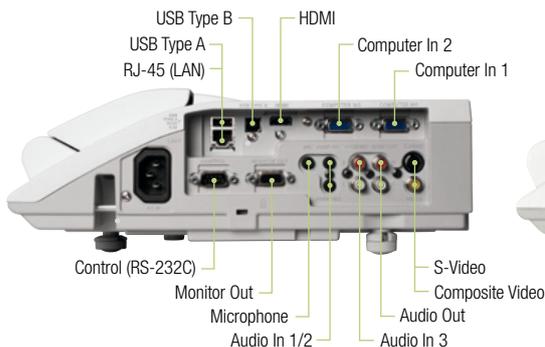


*1 Trolley not included. *2 Check with their software providers for further details.

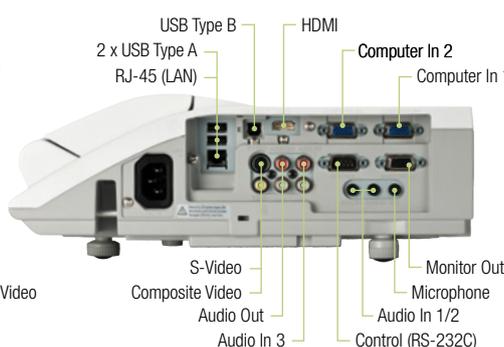


MODEL	CP-AW2519NM	CP-A222WNM	CP-EX250	CP-EX300
	ULTIMATE INTERACTIVE	ULTIMATE SHORT THROW		
OPTICAL				
Resolution	WXGA (1280 x 800)	XGA (1024 x 768)	XGA (1024 x 768)	XGA (1024 x 768)
Light output (brightness) (Lumens)	2500 (Bright Mode)/1700 (Normal Mode)	2200 (Bright Mode)/1500 (Normal Mode)	2700 (Bright Mode)/1800 (Normal Mode)	3200 (Bright Mode)/2100 (Normal Mode)
Contrast ratio	2000:1	4000:1	2000:1	2000:1
Lens	Free shaped lens and motorised free shaped mirror	Free shaped lens and motorised free shaped mirror	Manual focus, manual zoom x 1.2	Manual focus, manual zoom x 1.2
Lamp life (Hours)	3000 (Bright Mode)/5000 (Normal Mode)*	3000 (Bright Mode)/5000 (Normal Mode)*	5000 (Bright Mode)/6000 (Normal Mode)*	5000 (Bright Mode)/6000 (Normal Mode)*
Diagonal display size	60-100" (152-254cm)	60-100" (152-254cm)	30-300" (76-762cm)	30-300" (76-762cm)
Keystone correction	Fixed, 5.2:-1 upward shift	Fixed, 6.1:-1 Upward shift	Fixed, 6:1 upward shift	Fixed, 6:1 upward shift
Distance to width ratio (:1)	0.3:1 (fixed)	0.3:1 (fixed)	1.5 (Wide), 1.8 (Tele)	1.5 (Wide), 1.8 (Tele)
FEATURES				
Speaker	10W Mono	10W Mono	1W Mono	1W Mono
Basic functions	Freeze, Magnifying, Blank, Auto adjustment, Mirror reverse image, Up-side down image, Auto signal search	Freeze, Magnifying, Blank, Auto adjustment, Mirror reverse image, Up-side down image, Auto signal search	Freeze, Magnifying, Blank, Auto signal search, Auto eco mode	Freeze, Magnifying, Blank, Auto signal search, Auto eco mode
Picture adjustments	Digital Zoom x 1.35, Equalising digital gamma correction, 2-3 pull down for NTSC, Progressive Scan, Noise reduction, Aspect selection 4:3/16:9/16:10/14:9/Native, Equalising colour temperature adjustment, Perfect Fit	Digital Zoom x 1.35, Equalising digital gamma correction, 2-3 pull down for NTSC, Progressive Scan, Noise reduction, Aspect selection 4:3/16:9/16:10/14:9/Native, Equalising colour temperature adjustment, Perfect Fit	Aspect selection (video, data, HDMI), Equalising digital gamma correction, Equalising colour temperature adjustment, 2-3 pull down for NTSC, Mirror reverse image, Up-side down image, Progressive Scan, Noise reduction, Overscan	Aspect selection (video, data, HDMI), Equalising digital gamma correction, Equalising colour temperature adjustment, 2-3 pull down for NTSC, Mirror reverse image, Up-side down image, Progressive Scan, Noise reduction, Overscan
Digital keystone	Horizontal ±5°, Vertical ±5°	Horizontal ±5°, Vertical ±5°	Vertical ±30° (XGA@60Hz)	Vertical ±30° (XGA@60Hz)
Advanced features	Drawing function (optional wireless pen table needed), MyScreen, My Memory, My Button by remote control, Picture Mode (Normal, Cinema, Dynamic, Blackboard, Whiteboard, Greenboard), Input source naming (English), Resolution setting, Template, Saving mode, Audio pass through, Audio sound mixing, Audio out (standby) and monitor out/selectable source with menu, Filter timer/selectable interval time, Stand-by Audio, My Text	Drawing function (optional wireless tablet TB-1 required), MyScreen, My Memory, My Button by remote control, My Source, My Text, 8 picture modes, Source naming (English), Resolution setting, Template, Saving mode, Audio pass through, Cloning, Audio sound mixing, Audio out (standby) and monitor out/selectable source with menu, Eco Mode (Normal, Eco, Intelligent Eco, Saver), Filter timer/selectable interval time, PC-less Presentation (JPEG, PNG, BMP, GIF, AVI, MOV), Stand-by Audio, On screen installation guide, iOS Connectivity	MyScreen, My Memory, My Button, My Text, My Source, picture modes (normal, cinema, dynamic, blackboard, whiteboard greenboard, photo, daytime), Input source naming (English), Resolution setting, Filter timer, Template, Closed Caption (for NTSC & component 480i only), Framelock, Eco Mode (normal, eco, intelligent eco, saver), ImageCare™	MyScreen, My Memory, My Button, My Text, My Source, picture modes (normal, cinema, dynamic, blackboard, whiteboard greenboard, photo, daytime), Input source naming (English), Resolution setting, Filter timer, Template, Closed Caption (for NTSC & component 480i only), Framelock, Eco Mode (normal, eco, intelligent eco, saver), ImageCare™
Outward Power on & off	Easy lamp replace from top, Rear intake air filter Direct On, Direct Off, Auto eco mode	Easy lamp replace from top, Rear intake air filter Direct on, Auto off, Auto eco mode	Easy lamp replace from top, Easy access air filter Direct on, Auto off	Easy lamp replace from top, Easy access air filter Direct on, Auto off
Security systems	PIN security lock, MyScreen password lock, Transition detector, My Text password lock, Key lock (key pad, remote control), Kensington slot, Security bar, Lens door lock	PIN security lock, MyScreen password lock, Transition detector, My Text password lock, Key lock (key pad, remote control), Kensington slot, Security bar, Lens door lock	PIN security lock, MyScreen password lock, My Text password, Key lock (key pad and remote control), Kensington slot, Security bar	PIN security lock, MyScreen password lock, My Text password, Key lock (key pad and remote control), Kensington slot, Security bar
Network	Configure and control projector via web browser, failure and warning alerts via e-mail, scheduling, My Image, displaying text data transferred via the network, command control via network, AMX Device Discovery, projector management via SNMP, PJ Link™, Network Bridge, content via LAN, MAC address displayed on the side	Configure and control projector via web browser, failure and warning alerts via e-mail, scheduling, My Image (still image transfer display), displaying text data transferred via the network, command control via network, Crestron RoomView® (not accessible through wireless adapter), AMX Device Discovery, projector management via SNMP, PJ Link™, Network Bridge, Network Presentation (PC still picture transfer), MAC address on side, USB Display	-	-
CONNECTIONS				
Digital input	1 x HDMI	1 x HDMI (HDCP Compliant)	1 x HDMI (HDCP Compliant)	1 x HDMI (HDCP Compliant)
Computer input	2 x 15-pin Mini D-sub	2 x 15-pin Mini D-sub	2 x 15-pin Mini D-sub	2 x 15-pin Mini D-sub
Monitor output	1 x 15-pin Mini D-sub	1 x 15-pin Mini D-sub	1 x 15-pin Mini D-sub	1 x 15-pin Mini D-sub
Video input	2 x Component D-sub (shared with analogue RGB) 1 x RCA for composite 1 x Mini-DIN for S-Video	2 x Component D-sub (shared with analogue computer in 1/2) 1 x RCA for composite 1 x Mini-DIN for S-Video	1 x 15-pin Mini D-sub 1 x 15-pin Mini D-sub 1 x RCA for composite	1 x 15-pin Mini D-sub 1 x 15-pin Mini D-sub 1 x RCA for composite
Audio input	2 x Stereo Mini Jack 1 x pair RCA (L/R), 1 x Microphone Jack	2 x Stereo Mini Jack 1 x pair RCA (L/R), 1 x Microphone Jack	1 x pair RCA (L/R)	1 x pair RCA (L/R)
Audio output	1 x pair RCA (L/R)	1 x pair RCA (L/R)	1 x pair RCA (L/R)	1 x pair RCA (L/R)
USB Type A/Type B	Yes/Yes	Yes/Yes	No/No	No/No
Wired network	1 x RJ-45	1 x RJ-45	-	-
Wireless network	-	Option, IEEE802.11b/g/n ready (optional wireless adapter required)	-	-
Control	1 x 9-pin D-sub for RS-232C control	1 x 9-pin D-sub for RS-232C control	1 x 9-pin D-sub for RS-232C control	1 x 9-pin D-sub for RS-232C control
POWER				
Power supply	100-120V/220-240V, auto switching	100-120V/220-240V, auto switching	100-120V/220-240V, auto switching	100-120V/220-240V, auto switching
Power consumption/Standby	300W/<0.3W	300W/<0.35W	300W/<0.5W (AC 220-240V)	300W/<0.5W (AC 220-240V)
Replacement lamp/lamp Wattage	DT01181/210W UHB	DT01381/215W UHB	DT01433/215W UHB	DT01433/215W UHB
PHYSICAL				
Dimensions (W x H x D)	345 x 102 x 303mm (excluding feet and extrusions when mirror is closed)	345 x 85 x 303mm (excluding feet and extrusions when mirror is closed)	320 x 85 x 245mm (excluding feet and extrusions)	320 x 85 x 245mm (excluding feet and extrusions)
Weight	4.1Kg	3.8Kg	2.9Kg	2.9Kg
Noise level	34dB (Bright Mode)/28dB (Normal Mode)	34dB (Bright Mode)/28dB (Normal Mode)	37dB (Bright Mode)/29dB (Normal Mode)	37dB (Bright Mode)/29dB (Normal Mode)
Air filter	Hybrid (Up to 5000 Hours)	Hybrid (Up to 5000 Hours)	Urethane (Up to 2000 hours)	Urethane (Up to 2000 hours)
WARRANTY				
Projector warranty/lamp warranty	3 years/3 years (5000 Hours)** (Normal Mode)	3 Years/3 Years (5000 Hours)** (Normal Mode)	3 Years/3 Years (2000 Hours)** (Normal Mode)	3 Years/3 Years (2000 Hours)** (Normal Mode)

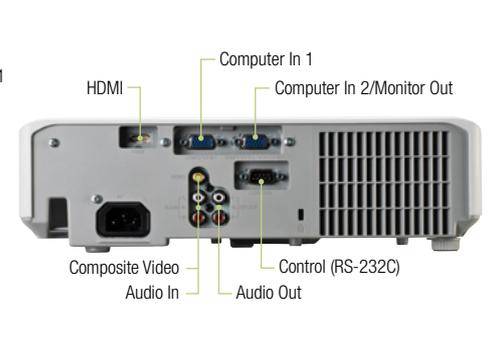
CP-AW2519NM



CP-A222WNM



CP-EX250/CP-EX300



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*The stated lamp and filter life refers to the average life expected in ideal operating conditions with usage in accordance with the manual. The majority of, but not all lamps and filters should achieve this figure. **A free replacement lamp will be issued if the original lamp is less than 3 years old and it has only been used for less than the hours stated on lamp warranty from the date of first use. Where a lamp fails and a replacement lamp is taken under warranty, the duration of the warranty for the replacement lamp shall be the remainder of the original warranty period only. The warranty is based on the projectors being used continuously in 'Normal Mode' and in an education environment. The warranty is only valid for 6 months if the projector isn't being used in an education environment. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. AMX and the AMX logo, and Device Discovery are all registered trademarks of AMX. Crestron® and RoomView® are registered trademarks or trademark of Crestron Electronics, Inc. The specification above and photography is for reference only and may be subject to change.