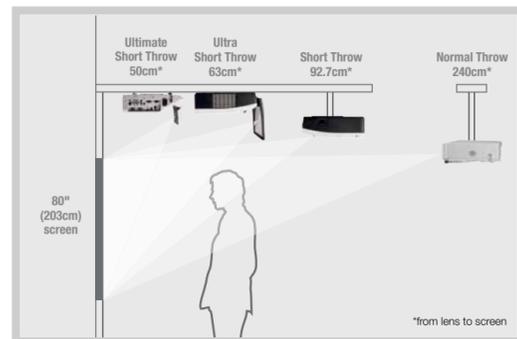


What is Ultimate Short Throw?

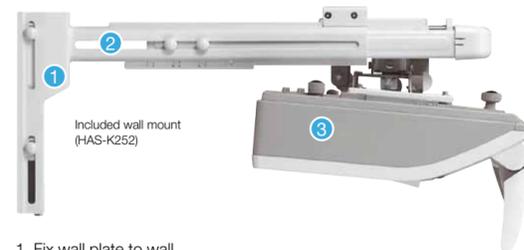
An Ultimate Short Throw projector isn't only about throw distance; it's a combination of features that make it stand out from ordinary short throw projectors. Extremely short throw distances often result in distorted and poor image quality, but not the Ultimate Short Throw. Hitachi's Ultimate Short Throw projector achieves the optimum balance between throw distance and image quality.

- Ultimate in picture quality
- Ultimate in installation
- Ultimate in connectivity
- Ultimate in flexibility
- Ultimate in performance features

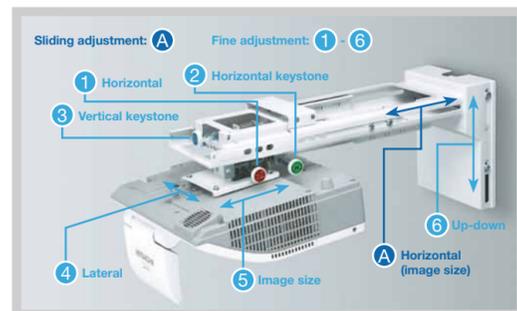


Easy installation and adjustment

The included wall mount ensures that the projector can be installed in exactly the right position. The entire unit slides horizontally and fine adjustments can be made to each axis independently.



1. Fix wall plate to wall.
2. Fit boom to wall plate.
3. Slide projector (with bracket attached) on to boom arm.



For fine adjustment all 6 axis can be individually corrected using the large dials located on the exceptionally versatile Hitachi mount. The diagram above shows how each dial can correct an image. In addition there is a fine vertical adjustment which can move the entire image up or down.



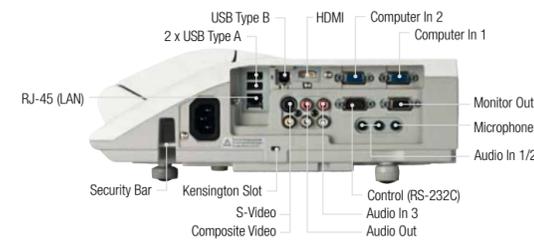
Versatile connectivity

These projectors provide a wealth of connectivity options. You can connect a variety of devices, to support all your projection needs. From DVD players and PCs to a wireless network, a Local Area Network or a simple mouse connection, Hitachi has done everything possible to ensure easy versatile connections that make your projector do more for you.



HDMI input

HDMI provides completely digital connections, ensuring that lessons and presentations can be delivered with the highest image quality.



MODEL	CP-A222WNM	CP-A302WNM	CP-A352WNM	CP-AW252WNM	CP-AW312WNM
OPTICAL					
Resolution	XGA (1024 x 768)	XGA (1024 x 768)	XGA (1024 x 768)	WXGA (1280 x 800)	WXGA (1280 x 800)
Light output (brightness) (Lumens)	2200 (Bright Mode)/1500 (Normal Mode)	3000 (Normal Mode)/2000 (Eco Mode)	3500 (Normal Mode)/2400 (Eco Mode)	2500 (Normal Mode)/1600 (Eco Mode)	3000 (Normal Mode)/2000 (Eco Mode)
Colour light output (colour brightness) (Lumens)	2200 (Bright Mode)/1500 (Normal Mode)	3000 (Normal Mode)/2000 (Eco Mode)	3500 (Normal Mode)/2400 (Eco Mode)	2500 (Normal Mode)/1600 (Eco Mode)	3000 (Normal Mode)/2000 (Eco Mode)
Contrast ratio			4000:1		
Lens			Free shaped lens and motorised free shaped mirror		
Lamp life (hours)	3000 (Bright Mode)/5000 (Normal Mode)	3000 (Normal Mode)/5000 (Eco Mode)	2500 (Normal Mode)/4000 (Eco Mode)	3000 (Normal Mode)/5000 (Eco Mode)	2500 (Normal Mode)/4000 (Eco Mode)
Focus distance			0.4m-0.7m (from mirror top to screen plane)		
Distance to width ratio (1)			0.3:1 (fixed)		
Diagonal display size			60"-100" (152cm-254cm)		
Keystone		Fixed, 6.1:-1 upward shift, normal at 71.1° projection angle		Fixed, 5.2:-1 upward shift, normal at +68.3° projection angle	
COMPATIBILITY					
Computer compatibility	IBM Compatible VGA, SVGA, XGA, WXGA, SXGA, WSXGA+ (CP-AW252WNM & CP-AW312WNM only), SXGA+, UXGA (compressed), MAC 16"				
Composite/S-video	NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43				
Component video	525i(480p), 525p(480p), 625i(576i), 1125i(1080i@50/60), 1125p(1080p@50/60), 750p(720p@50/60)				
HDMI	1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60)				
FEATURES					
Speaker	10W x 1 Mono		16W x 1 Mono		
Basic functions	Freeze, Magnifying, Blank, Auto adjustment, Mirror reverse image, Up-side down image, Auto signal search				
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 - dependant on source, Equalising colour temperature adjustment, Perfect Fit				
Digital keystone	Horizontal ±5°, Vertical ±5°				
Advanced features	Drawing function (optional wireless tablet TB-1 required), My Screen, My Memory, My Button by remote control, My Source, My Text, Picture mode (8 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, Image Care™, iOS Connectivity				
Outward	Easy Lamp replace from Top, Rear intake air filter				
Power on & off	Direct on, Auto off, Auto eco mode				
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				
Network	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				
OSD language options	English, French, German, Spanish, Italian, Norwegian, Dutch, Japanese, Simplified Chinese, Traditional Chinese, Korean, Swedish, Russian, Finnish, Polish, Turkey, Arabic, Persian, Czech, Danish, Hungarian, Romanian, Slovenian, Croatian, Greek, Lithuanian, Estonian, Latvian, Thai, Portuguese (Brazil), Indonesian, Vietnamese				
CONNECTIONS					
Digital input	1 x HDMI (HDCP compatible)				
Computer input	2 x 15-pin Mini D-sub				
Monitor output	1 x 15-pin Mini D-sub				
Video input	1 x RCA Jack (for composite), 1 x S-Video Jack, 2 x Component D-sub (shared with analogue computer in 1/2)				
Audio input	2 x Stereo Mini Jack, 1 x pair RCA (L/R), 1 x Microphone Jack				
Audio output	1 x pair RCA (L/R)				
USB	2 x USB Type A, 1 x USB Type B				
Control	1 x 9-pin D-sub for RS-232C control				
Wired network	1 x RJ-45				
Wireless network	Option, IEEE801.11b/g/n ready (optional wireless adapter required)				
POWER					
Power supply	300W/<0.35W (AC 220-240V)				
Power consumption/standby	300W/<0.35W (AC 220-240V)	310W/<0.35W (AC 220-240V)	100-120W/220-240V, auto switching 350W/<0.35W (AC 220-240V)	310W/<0.35W (AC 220-240V)	350W/<0.35W (AC 220-240V)
PHYSICAL					
Dimensions (W x H x D)	345 x 85 x 303mm (excluding feet and extrusions when mirror closed)				
Weight	3.8kg				
Noise level	34dB (Bright Mode)/28dB (Normal Mode)	34dB (Normal Mode)/28dB (Eco Mode)	37dB (Normal Mode)/30dB (Eco Mode)	34dB (Normal Mode)/28dB (Eco Mode)	37dB (Normal Mode)/30dB (Eco Mode)
Ambient temperature	Operating 0°C-40°C, Storage -20°C-60°C				
Air filter	Hybrid (up to 4000 hours)				
MISCELLANEOUS	Lamp indicator light, power light, ceiling mount image, rear projection image, serial number label on side, Tabletop use (optional kit TT-251 is required)				
ACCESSORIES SUPPLIED	Remote control with batteries, RGB cable, power cord, cable cover, security label, user manual (detail & concise), Application CD, Wall mount (HAS-K252), Adapter cover				
OPTIONAL ACCESSORIES					
Replacement lamp/lamp Wattage	DT01381/215W UHP	DT01381/215W UHP	DT01411/250W UHP	DT01381/215W UHP	DT01411/250W UHP
Table top kit	TT-251				
USB wireless adapter	USB-WL-11N				
Solutions products	TB-1 wireless interactive tablet, IM-1 interactive camera unit, CS-1 WL wireless document camera, MS-1 WL wireless multifunctional switcher/scaler				
WARRANTY					
Projector/Lamp	3 Years/3 Years**		3 Years/6 Months*** (for education and extended warranties, please contact your local dealer)		

HITACHI DIGITAL MEDIA, Hitachi Europe Ltd, Whitebrook Park, Lower Cookham Road, Maidenhead, Berkshire SL6 8YA UNITED KINGDOM
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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. **Where a lamp fails within warranty and a replacement lamp is taken, the warranty for the replacement lamp will be a maximum of 3 years (dependent on warranty hours stated). ***Where a lamp fails within warranty and a replacement lamp is taken, the warranty for the replacement lamp will be a maximum of 6 months (dependent on warranty hours stated). 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. iPad, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. The specification above and photography is for reference only and may be subject to change.

CP-A222WNM
CP-AW252WNM

CP-A302WNM
CP-AW312WNM

CP-A352WNM



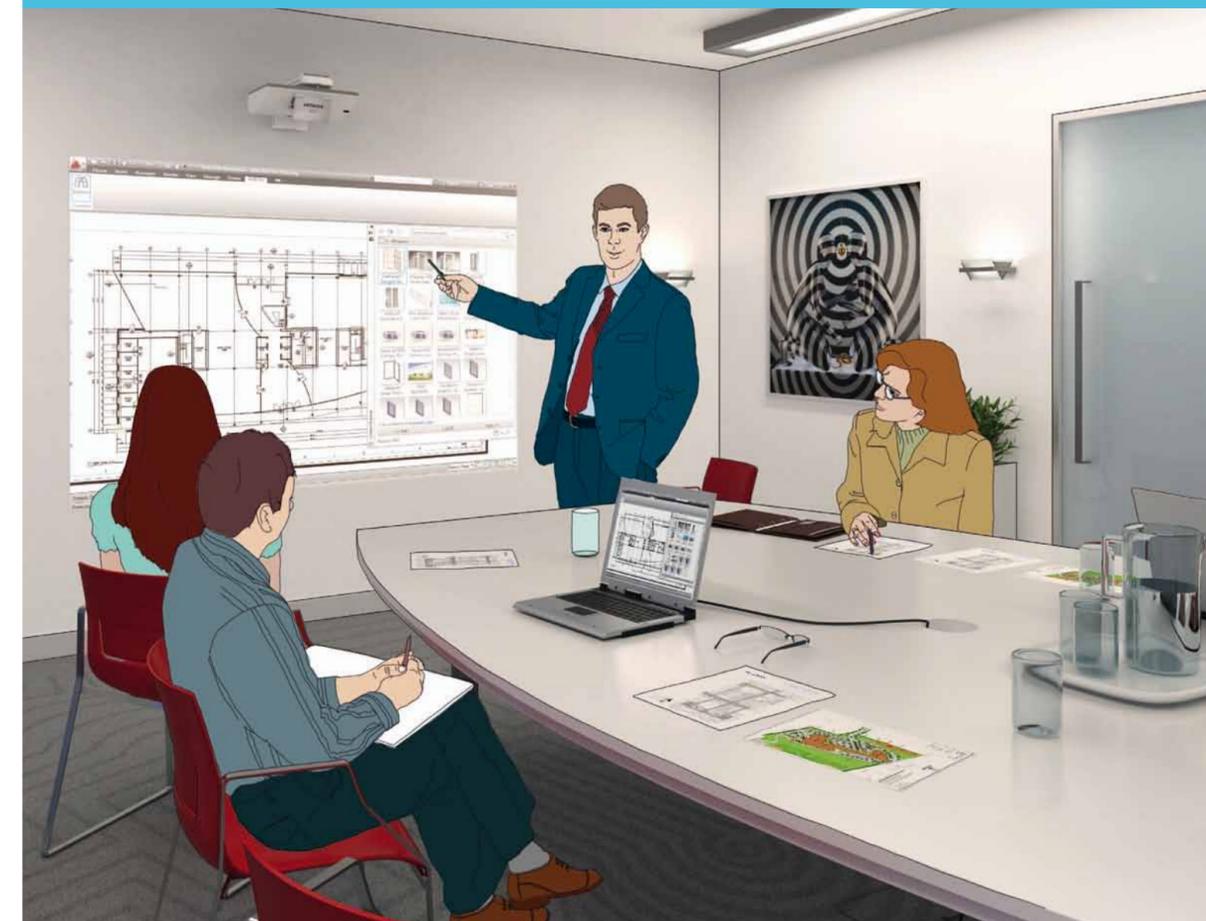
ULTIMATE
究極 SHORT THROW

Ultimate Short Throw LCD Projectors

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Hitachi Ultimate Short Throw projectors help you get the most out of your lessons or presentations.

The light weight and compact Ultimate Short Throw projectors offer the highest quality images with a compelling design and low cost of ownership. With the bundled wall mount and optional table top kit you can project onto any existing whiteboard, wall or table top. They are also easy to install and flexible to use with optional wireless networking.

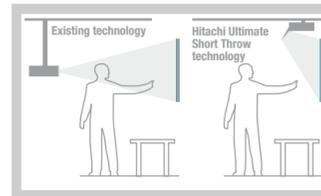
Ultimate picture quality with 4000:1 high contrast ratio



Perfect Fit
The enhanced Hitachi Perfect Fit now incorporates eight point adjustment which includes all four corners and sides. This intuitive feature helps make correcting complicated or geometric distortions caused by imperfections in screen flatness as quick as possible.



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.

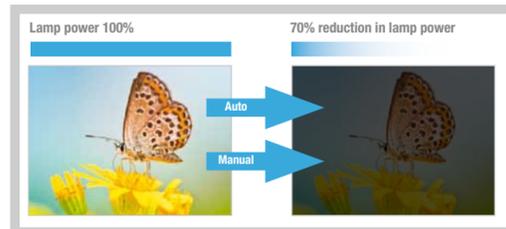


No glare or shadows
Traditional projectors dazzle people, Hitachi's unique Ultra Short Throw Technology means if you stand in front of the projector the light beam won't shine in your eyes.

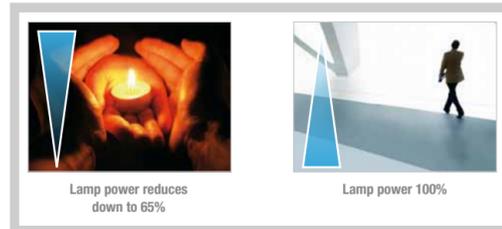
Low total cost of ownership

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 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.

Ultimate reliability

Eco-friendly and highly reliable with fewer components

To ensure our new Ultimate Short Throw models are highly reliable and light weight we have consolidated their components and used fewer screws to manufacture them.

This means that not only will they require less maintenance but they also require less packaging. We are also working hard to curb greenhouse gas emissions in every phase of our production process by implementing the following:

Paint-free casing
Paint can release harmful emissions into the air and environment, so we choose alternatives for our projectors.

Recyclable carton boxes
Our carton boxes are now made of 100% recyclable material, so they shouldn't contribute to landfill waste.

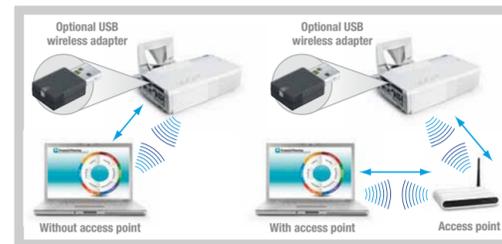


Easy Maintenance
Now you can benefit from extended maintenance intervals with Hitachi's Hybrid filter (4000 hours) and long life lamp (5000 hours). Both can be replaced easily using the covers located on the top and back of the projector.



Versatile Security Functions
Projectors are equipped with a security bar allowing a chain to be attached.

Ultimate wireless connectivity



Wireless capability and network functionality

Hitachi's range of Ultimate Short Throw projectors allow you to connect to your wireless network, letting you run lessons or presentations wirelessly from your laptop. The USB wireless adapter enables the projector and computer to communicate both directly or via a wireless network infrastructure. The optional USB wireless adapter supports all IEEE802.11b/g/n networks, and simply slots into place.



iOS Connectivity*

Using our 'Projector Quick Connection' application, users will be able to wirelessly display documents, images and web pages from their iPad®, iPod touch® and iPhone® on all of our Ultimate Short Throw projectors. The application will also allow users to control the projector via their iOS devices. *Our 'Projector Quick Connection' application can be downloaded from the App Store™. iPad® application launch date planned for August 2012 and iPhone/iPod touch® application launch planned for October 2012. Available using the following file formats: jpg, bmp, png, gif, PDF, Excel®, Word®, PowerPoint®, Keynote®, Numbers®, Pages® and Web pages.

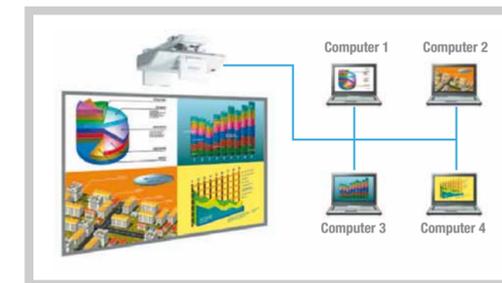
Ultimate network functions

The Ultimate Short Throw range offers flexible networking capabilities. Administrators can conveniently schedule a variety of actions for multiple projectors on the network, including automatic Power On/Off and Centralised Reporting. The clever messenger function also allows messages to be sent to multiple projectors instantly or at a specified time.



Crestron RoomView™ Software

RoomView™ software provides a custom configurable interface to monitor, manage and control every device in every room remotely from any computer. RoomView Connected™ Projector Support Projectors with Crestron inside already connect directly to RoomView Express software. Built-in network connectivity provides instant status and remote technical support so your class or meeting is never interrupted. Broadcast messaging ensures a safe environment. Instructors can schedule all the projectors throughout the facility to turn off at the end of the day, saving energy and preserving lamps.



Network presentations

You can project still or moving images from one or more networked computers. The single PC mode lets you select one computer on the network, while the multi PC mode lets you use up to four computers.

Ultimate performance features

Compatible with Hitachi Solution products

All new Ultimate Short Throw models are fully compatible with our innovative Hitachi Solution products*, which enhance interactivity, simplify installation and easily accommodate multiple devices with complex connections. With 2 USB type A inputs both the optional wireless adapter and one of our Solution products can be used simultaneously.



*Compatible Solution products include: Wireless Pen Tablet TB-1, Interactive Camera Unit IM-1, Wireless Document Camera CS-1WL, Wireless Multifunctional Switcher/Scaler MS-1WL, WHDI Transmitter/Receiver bundle WT-R1. For further information and specifications please refer to our website www.hitachidigitalmedia.com.

Ultimate flexibility



The Ultimate Short Throw projectors are easy to install and flexible to use. With the bundled wall mount and optional table top kit you can transform any existing whiteboard, wall or table top into a projected surface.



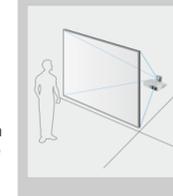
False/high ceilings
Rooms with awkward ceilings – the Ultimate Short Throw projectors can be wall mounted, therefore problems relating to large voids above suspended ceilings are a thing of the past.



Shop window
Ultimate Short Throw Technology opens up a world of new possibilities in retail and digital signage applications. From shop window installations to maps in airport lounges, images can be projected on to surfaces that were never thought possible.



Entertainment
Get closer to the action than ever. Create an immersive experience by projecting large screens for gaming and videos with no shadowing effects.



Rear projection
Ideal for rear projection due to the short throw distance, resulting in a clean and compact space-saving installation.

