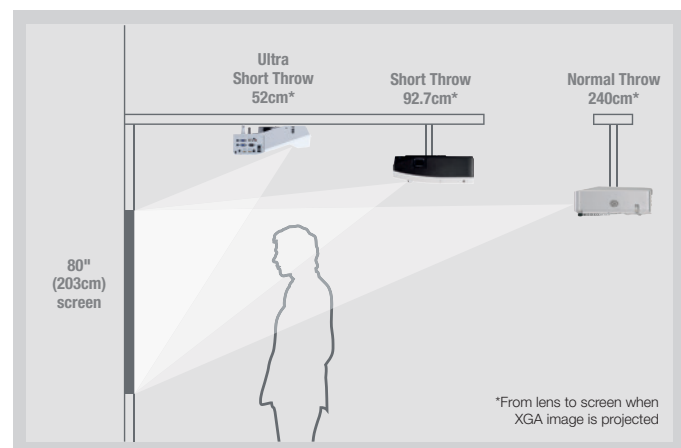


What is Ultra Short Throw?

An Ultra 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 Ultra Short Throw. Hitachi's Ultra Short Throw projector achieves the optimum balance between throw distance and image quality.

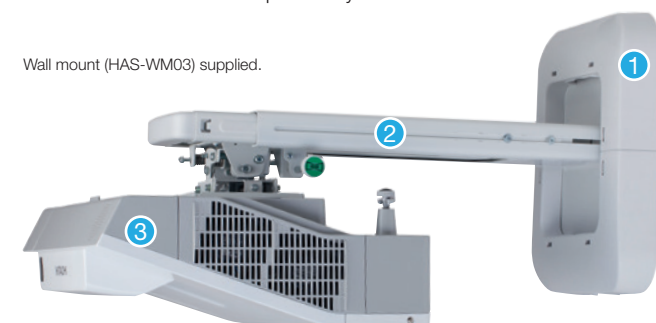
- Ultra in picture quality
- Ultra in installation
- Ultra in connectivity
- Ultra in flexibility
- Ultra in performance features



Easy installation and adjustment

The 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.

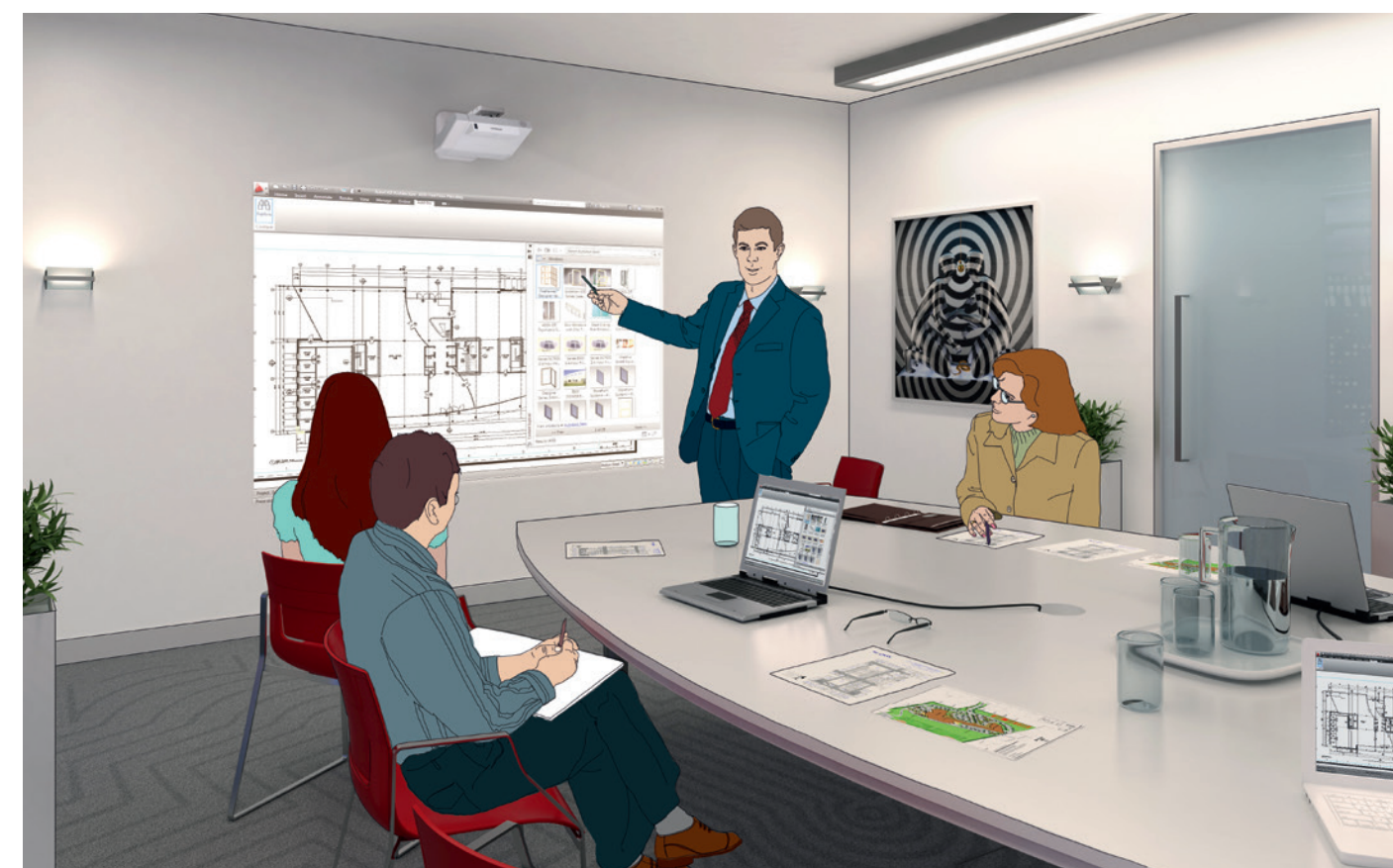
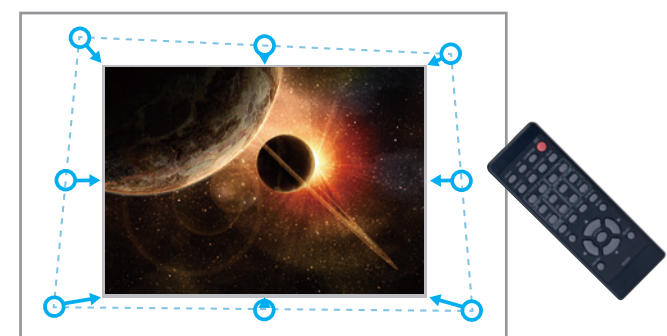
Wall mount (HAS-WM03) supplied.



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

Easy remote control installation and adjustment

Hitachi innovations extend to installation and operation features that ensure quick, easy and flexible setup. The powered focus and zoom and the eight point Perfect Fit function, all of which can be operated via the remote control, to enable rapid installation but also easy post-installation adjustment of settings.

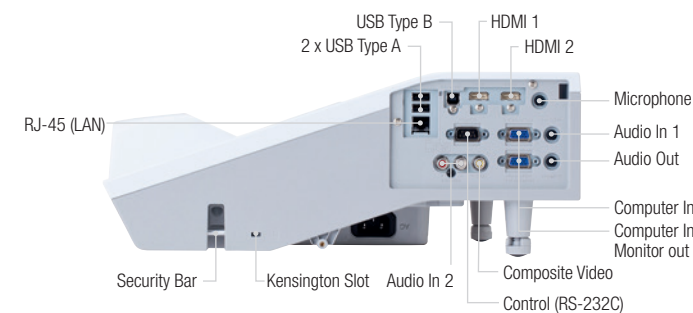


Versatile connectivity

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.



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



Technical specifications

MODEL	CP-AX2503	CP-AX3003	CP-AX3503	CP-AW2503	CP-AW3003	CP-TW2503	CP-TW3003
OPTICAL							
Resolution	XGA (1024 x 768)	XGA (1024 x 768)	XGA (1024 x 768)	WXGA (1280 x 800)	WXGA (1280 x 800)	WXGA (1280 x 800)	WXGA (1280 x 800)
Brightness (lumens)	2700 (Normal)/1800 (Eco)	3300 (Normal)/2200 (Eco)	3600 (Normal)/2400 (Eco)	2700 (Normal)/1800 (Eco)	3300 (Normal)/2200 (Eco)	2700 (Normal)/1800 (Eco)	3300 (Normal)/2200 (Eco)
Contrast ratio	5000:1			5000:1			
Lens	Powered focus, Digital zoom x 1.35			Powered focus, Digital zoom x 1.35			
Lamp life (hours)	3000 (Normal)/5000 (Eco)	2500 (Normal)/4000 (Eco)	2500 (Normal)/4000 (Eco)	2500 (Normal)/4000 (Eco)	2500 (Normal)/4000 (Eco)	2500 (Normal)/4000 (Eco)	2500 (Normal)/4000 (Eco)
Focus distance (from front of projector)	0.103m-0.369m			0.126m-0.410m			
Distance to width ratio (t1)	0.3 (fixed)			0.3 (fixed)			
Diagonal display size	60"-100" (152cm-254cm)			60"-100" (152cm-254cm)			
Keystone	Fixed 7.7:-1 Upward Shift			Fixed 4.6:-1 Upward Shift			
COMPATIBILITY							
Computer	XGA			WXGA			
Composite S-Video	NTSC, PAL, SECAM, PAL-M/N, PAL (60Hz), NTSC4.43			NTSC, PAL, SECAM, PAL-M/N, PAL (60Hz), NTSC4.43			
Component Video/HDMI	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz			480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz			
FEATURES							
Speaker	16W			16W			
Image	Picture modes (DICOM simulation, photo), HDR (High Dynamic Contrast Range), Accentualizer technology			Picture modes (DICOM simulation, photo), HDR (High Dynamic Contrast Range), Accentualizer technology			
Audio	Standby Audio, Audio pass through			Standby Audio, Audio pass through			
Network	Projector Control, Screen Transfer, New Network Setting (OSI, Infrastructure Mode (Wireless LAN), Ad-hoc Mode (Wireless LAN), P-Link™, email (SMTP), Schedule (SNTP), SNMP Management (SNMP), My Image, Messenger, Campus notification system, Network bridge, AMX Device Discovery, Crestron™ RoomView®, Projector web control			Projector Control, Screen Transfer, New Network Setting (OSI, Infrastructure Mode (Wireless LAN), Ad-hoc Mode (Wireless LAN), P-Link™, email (SMTP), Schedule (SNTP), SNMP Management (SNMP), My Image, Messenger, Campus notification system, Network bridge, AMX Device Discovery, Crestron™ RoomView®, Projector web control			
Security systems	Password/My Screen Password, PIN lock, Key lock			Password/My Screen Password, PIN lock, Key lock			
Installation	Keystone vertical/horizontal, Perfect Fit (corner fit), Perfect Fit memory			Keystone vertical/horizontal, Perfect Fit (corner fit), Perfect Fit memory			
Eco	Saver mode, Intelligent eco mode, ImageCare™, Filter cleaning cycle			Saver mode, Intelligent eco mode, ImageCare™, Filter cleaning cycle			
Optional accessories support	TB-1 tablet, Hong he tablet, Hong he IWB connection, MS-1/MS-1WL control			TB-1 tablet, Hong he tablet, Hong he IWB connection, MS-1/MS-1WL control			
Other	Auto altitude mode, Altitude (up to 10,000ft), Cloning function			Auto altitude mode, Altitude (up to 10,000ft), Cloning function			
INTERACTIVE FEATURES							
Interactive system	-			Sensor type: IR camera, Pen type: IR pen			
Calibration	-			Auto calibration, Storage location of calibration information on projector, Up to 4 pens, Multi display IWB, PC less interactive, Windows 8 multi touch operation with up to 4 pens			
SOFTWARE							
PC software	-			LiveViewer for Win (ver.6.21), LiveViewer for Mac (ver. 1.02.1024), Projector Management Application (ver.7.18), Projector Control Application (ver.4.13), Projector Image Tool (ver.3.2), Projector Messenger Tool (ver.1.5)			
Interactive software	-			I-Pro interactive software, Hitachi StarBoard™ software			
Smart device apps	-			Projector Quick Connection (for iOS & Android)			
CONNECTIONS							
Digital input	2 x HDMI			2 x HDMI			
Computer input	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			
Video input	1 x RCA composite			1 x RCA composite			
Audio input	1 x stereo mini jack, 1 x pair RCA (L/R), 1 x microphone			1 x stereo mini jack, 1 x pair RCA (L/R), 1 x microphone			
Audio output	1 x stereo mini jack			1 x stereo mini jack			
USB	2 x type A (PC-less presentation or wireless adapter), 1 x type B (USB display or USB mouse control)			2 x type A (PC-less presentation or wireless adapter), 1 x type B (USB display or USB mouse control)			
Control	1 x 9-pin D-sub for RS-232C control			1 x 9-pin D-sub for RS-232C control			
Wired network	1 x RJ-45			1 x RJ-45			
Wireless network	Optional wireless adapter required			Optional wireless adapter required			
POWER							
Power supply	100-120V/220-240V, auto switching			100-120V/220-240V, auto switching			
Power consumption/standby (AC 220-240V)	330W/310W<-0.3W			360W/350W<-0.35W			
PHYSICAL							
Dimensions (W x H x D)	377 x 136 x 360mm (excluding lens and feet)			377 x 136 x 360mm (excluding lens and feet)			
Weight	4.3kg			<4.5kg			
Noise level	29dB (Eco)/35dB (Normal)			30dB (Eco)/37dB (Normal)			
Operating temperature	0°C-40°C			0°C-40°C			
Air filter	Hybrid (up to 4000 hours)			Hybrid (up to 4000 hours)			
ACCESSORIES SUPPLIED							
	Remote control with batteries (HL03033), RGB cable, Power cord, Cable cover, Interactive pen x 2 (CP-TW2503 & CP-TW3003 only), USB wireless adapter cover, Manual CD, Application CD, Hitachi StarBoard™ software DVD (CP-TW2503 & CP-TW3003 only), User manual (concise), Wall mount (HAS-WM03)						
OPTIONAL ACCESSORIES							
Remote control	R020F			R020F			
Replacement lamp/lamp Wattage	DT01511/225W UHP			DT01511/250W UHP			
Filter	UX37191			UX37191			
USB wireless adapter	USB-WL-11N			USB-WL-11N			
Table top mount	TT-03			TT-03			
Ceiling mount	HAS-203L, HAS-WA100			HAS-203L, HAS-WA100			
Wall mount	HAS-WM03			HAS-WM03			
Interactive pen	-			HL03061			
WARRANTY							
Projector/Lamp	3 Years/3 Years**		3 Years/6 Months**		3 Years/3 Years**		3 Years/6 Months**

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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 falls 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). ***Where a lamp falls 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). 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 trademarks of Crestron Electronics, Inc. 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-AX2503
CP-AW3003

CP-AX3003
CP-TW2503

CP-AX3503
CP-TW3003

CP-AW2503



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Ultra Short Throw LCD Projectors



The ideal solution for any education or corporate environment



3LCD
HYBRID FILTER



Compatible with
Projector Quick Connection App
Available on the
App Store

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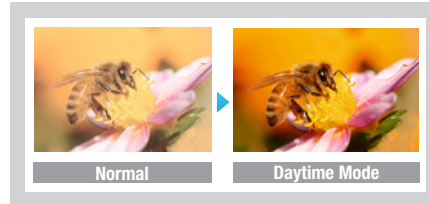
Hitachi Ultra Short Throw projectors help you get the most out of your lessons or presentations.

Ultra Short LCD projectors that combine exceptional image quality and advanced features in a class-leading light, compact design that incorporates a fixed mirror. This range of Ultra Short Throw projectors offer exceptional usability and easy access to powerful features.

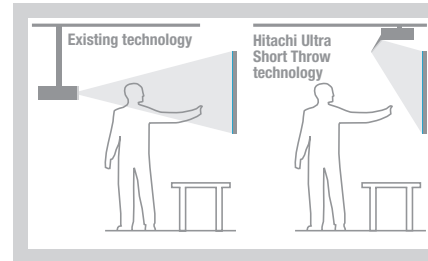
Ultra picture quality with 5000:1 high contrast ratio



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.

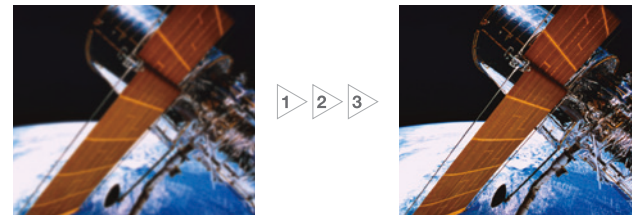


No glare or shadows
Traditional projectors dazzle people, Hitachi's unique Ultra Short Throw Technology means if you stand in front of the projector the light beam won't shine in your eyes.

Accentualizer

Hitachi's original technology makes pictures look more real by enhancing (1) Sharpness, (2) Gloss and (3) Shade to make pictures as clear as pictures on a flat-panel device. You can also adjust the effects by three

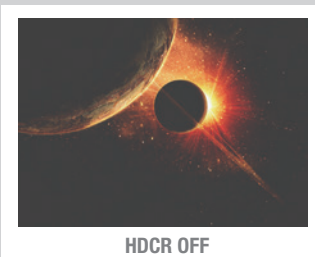
levels according to your surroundings, so that the colours of projected images are true to life, by simply using one button on the remote control.



HDCR (High Dynamic Contrast Range)

When average projectors are used in bright rooms, the darker colours of an image deteriorate and the image becomes less clear. Using HDCR, blurred images caused by room lighting or outside light sources are

corrected and an effect similar to increasing contrast occurs. This result is a clear image even in bright rooms. This is done by simply using one button on the remote control.



HDCR + Eco Mode
Turning HDCR ON and activating Eco Mode achieves a brightness with a look and feel close to Normal Mode while suppressing lamp brightness to the Eco Mode level and cutting electricity consumption up to approx. 30%. This results in clear images even at Normal mode.



Ultra performance features

Compatible with Hitachi Solution products
All new Ultra 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 Multifunctional Switcher/Scaler MS-1WL and SB-1 Switcher. For further information and specifications please refer to our website www.hitachidigitalsmedia.com.

Interactive features (CP-TW2503 and CP-TW3003 only)

Multiple interactive pens
With up to 4 interactive pens 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.



Multi screen
For larger applications, two projectors can be combined via a single PC for continuous drawing over extended screens.



Windows 8 multi touch
Windows 8 multi touch allow users with touch-enabled Windows 8 systems to operate the PC directly from the interactive screen with up to 4 Pens.



Hands on learning
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.

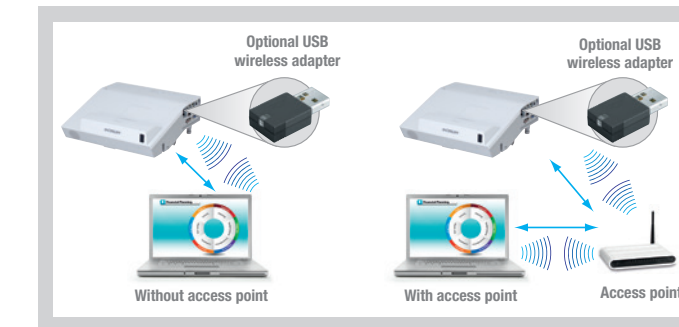


Auto calibration
Auto calibration is completed in 6 seconds with one button press on the remote control.

PC less drawing
PC less IWB mode, allows users to draw directly onto a picture from a document camera and other devices. There are many photographs and templates stored within the projector, allowing users to draw directly onto pictures and templates without connecting a PC. There are 3 ways to use the interactive projectors. Either PC less or using the included I-Pro Interactive software or with the included Hitachi StarBoard™ Software.



Ultra wireless connectivity



Wireless capability and network functionality
Hitachi's range of Ultra 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.



Smart Device Control
Plugging the USB wireless adapter into the projector and using our 'Projector Quick Connection' application*, projectors can be controlled from a tablet or smartphone.

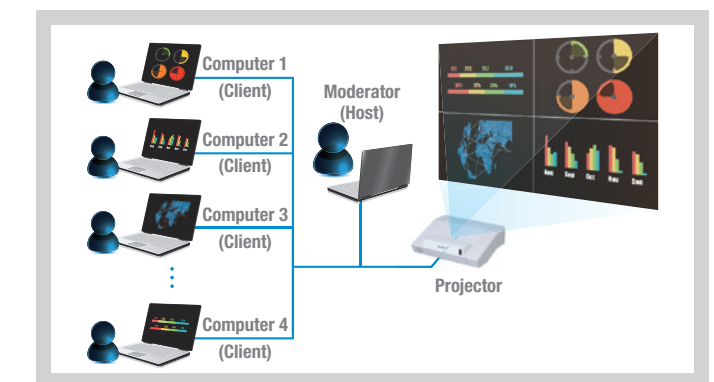
*Our 'Projector Quick Connection' application can be downloaded from the App Store™. Available using the following file formats: jpg, bmp, png, gif, PDF, Excel®, Word®, PowerPoint®, Keynote®, Numbers®, Pages® and Web pages. A USB wireless adapter must be used.

Ultra network functions

The Ultra 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.



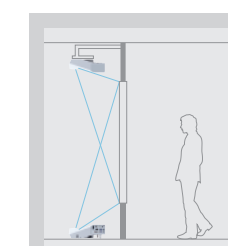
Moderator Control Mode
The moderator controls up to 50 computers (Clients) and can select which computer is projected, up to 4.

* Moderator Control Mode supports LiveViewer 6 (Windows application) only.

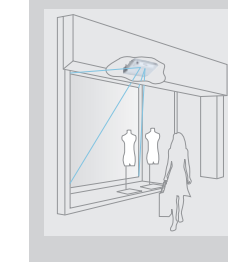
Ultra flexibility



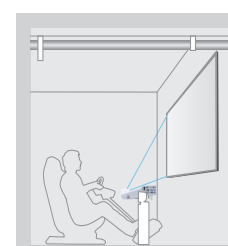
The Ultra Short Throw projectors are easy to install and flexible to use. With the wall mount and optional table top mount you can transform any existing whiteboard, wall or table top into a projected surface.



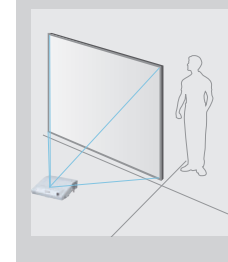
False/high ceilings
Rooms with awkward ceilings – the Ultra Short Throw projectors can be wall mounted, therefore problems relating to large voids above suspended ceilings are a thing of the past.



Shop window
Ultra 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.