Specification

	CP-AX2505	CP-AX3005	CP-AX3505	CP-AW2505	CP-AW3005	CP-TW2505	CP-TW3005
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)
Light Output (Brightness)	2700 Lumens (Normal) / 2214 Lumens (Eco1) / 1809 Lumens (Eco2)	3300 Lumens (Normal) / 2706 Lumens (Eco1) / 2244 Lumens (Eco2)	3600 Lumens (Normal) / 2952 Lumens (Eco1) / 2448 Lumens (Eco2)	2700 Lumens (Normal) / 2214 Lumens (Eco1) / 1809 Lumens (Eco2)	3300 Lumens (Normal) / 2706 Lumens (Eco1) / 2244 Lumens (Eco2)	2700 Lumens (Normal) / 2214 Lumens (Eco1) / 1809 Lumens (Eco2)	3300 Lumens (Normal) / 2706 Lumens (Eco1) / 2244 Lumens (Eco2)
Liquid Crystal Panel Structure	0.63" aspect ratio 4:3	0.63" (1.6cm) P-Si TFTx3	0.63" (1.6cm) P-Si TFTx3	0.59" (1.5cm) P-Si TFTx3	0.59" (1.5cm) P-Si TFTx3	0.59" aspect ratio 16:10	0.59" aspect ratio 16:10
Contrast Ratio	10,000:1	10,000:1	10,000:1	10,000:1	10,000:1	10,000:1	10,000:1
Noise	34dB (Normal) / 32dB (Eco1) / 28dB (Eco2)	36dB (Normal) / 32dB (Eco1) / 29dB (Eco2)	36dB (Normal) / 32dB (Eco1) / 29dB (Eco2)	34dB (Normal) / 32dB (Eco1) / 28dB (Eco2)	36dB (Normal) / 32dB (Eco1) / 29dB (Eco2)	34dB (Normal) / 32dB (Eco1) / 28dB (Eco2)	36dB (Normal) / 32dB (Eco1) / 29dB (Eco2)
Lamp Life (Hours)*	5000 hours (Normal) / 8000 hours (Eco1) / 10000 (Eco2)	4000 hours (Normal) / 5000 hours (Eco1) / 6000 (Eco2)	4000 hours (Normal) / 5000 hours (Eco1) / 6000 (Eco2)	5000 hours (Normal) / 8000 hours (Eco1) / 10000 (Eco2)	4000 hours (Normal Mode) / 5000 hours (Eco1) / 6000 (Eco2)	5000 hours (Normal) / 8000 hours (Eco1) / 10000 hours (Eco2)	4000 hours (Normal) / 5000 hours (Eco1) / 6000 hours (Eco2)
Display Size	60~100" (152~254cm)	60~100" (152~254cm)	60~100" (152~254cm)	60~100" (152~254cm)	60~100" (152~254cm)	60~100" (152~254cm)	60~100" (152~254cm)
Throw Distance	0.103m - 0.463m	0.103m - 0.463m	0.103m - 0.463m	0.126m - 0.41m	0.126m - 0.41m	0.126m - 0.41m	0.126m - 0.41m
Lens	Powered focus, digital zoom x1.35	Powered focus, digital zoom x1.35	Powered focus, digital zoom x1.35	Powered focus, digital zoom x1.35	Powered focus, digital zoom x1.35	Powered focus, digital zoom x1.35	Powered focus, digital zoom x1.35
Keystone Correction	Fixed 7.7:-1 upward shift	Fixed 7.7:-1 upward shift	Fixed 7.7:-1 upward shift	Fixed 4.6:-1 upward shift	Fixed 4.6:-1 upward shift	Fixed 4.6:-1 upward shift	Fixed 4.6:-1 upward shift
Distance to Width Ratio (:1)	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Interactive Features	No	No	No	No	No	Up to 6pen / touch finger write (option), PC less interactive, Windows 8 multi touch operation with up to 6pen / touch (option)	Up to 6pen / touch finger write (option), PC less interactive, Windows 8 multi touch operation with up to 6pen / touch (option)
PHYSICAL							
Weight	4.3kg	4.3kg	4.3kg	4.3kg	4.3kg	<4.5kg	<4.5kg
Dimensions (W x H x D)	377 x 136 x 360mm (excluding feet and extrusions)	377 x 136 x 360mm (excluding feet and extrusions)	377 x 136 x 360mm (excluding feet and extrusions)	377 x 136 x 360mm (excluding feet and extrusions)	377 x 136 x 360mm (excluding feet and extrusions)	377 x 136 x 360mm (excluding feet and extrusions)	377 x 136 x 360mm (excluding feet and extrusions)
Power Consumption / Standby	310W / <0.35W (AC 220-240V)	350W / <0.35W (AC 220-240V)	350W / <0.35W (AC 220-240V)	310W / <0.35W (AC 220-240V)	350W / <0.35W (AC 220-240V)	330W / <0.35W (AC 220-240V)	360W / <0.35W (AC 220-240V)
Speakers	1 x 16W (mono)	1 x 16W (mono)	1 x 16W (mono)	1 x 16W (mono)	1 x 16W (mono)	1 x 16W (mono)	1 x 16W (mono)
Filter*	Hybrid (up to 4000 hours)	Hybrid (up to 4000 hours)	Hybrid (up to 4000 hours)	Hybrid (up to 4000 hours)	Hybrid (up to 4000 hours)	Hybrid (up to 4000 hours)	Hybrid (up to 4000 hours)
CONNECTIONS							
Digital Input	2 x HDMI	2 x HDMI	2 x HDMI	2 x HDMI	2 x HDMI	2 x HDMI	2 x HDMI
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	2 x 15-pin Mini D-sub	2 x 15-pin Mini D-sub	2 x 15-pin Mini D-sub
Computer 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	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 composite	1 x RCA composite	1 x RCA composite	1 x RCA composite	1 x RCA composite	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	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	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	1 x stereo mini jack / 1 x pair RCA (L/R) / 1 x microphone
Audio Output	1 x 3.5mm stereo mini connector	1 x 3.5mm stereo mini connector	1 x 3.5mm stereo mini connector	1 x 3.5mm stereo mini connector	1 x 3.5mm stereo mini connector	1 x stereo mini jack	1 x 3.5mm stereo mini connector
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	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
Wireless LAN / Wired LAN	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes
PC-Less Presentation USB-A	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mouse Control USB-B	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wired Remote Control	No	No	No	No	No	No	No
COMPATIBILITY							
Video	525i(480i), 525p(480p),626i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60)	525i(480i), 525p(480p), 626i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60)	525i(480i), 525p(480p), 626i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60)	525i(480i), 525p(480p), 626i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60)	525i(480i), 525p(480p), 626i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60)	525i(480i), 525p(480p), 626i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60)	525i(480i), 525p(480p), 626i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60)
ACCESSORIES INCLUDED							
Remote Control (with batteries)	HL03033	HL03033	HL03033	HL03033	HL03033	HL03033	HL03033
Optional Accessories	USB wireless adapter USB-WL-11N, Wall mount unit HAS-WM03, TT-03 Table Top Kit, Wall mount adaptor (XGA) HAS-WB01	USB wireless adapter USB-WL-11N, Wall mount unit HAS-WM03, TT-03 Table Top Kit, Wall mount adaptor (XGA) HAS-WB01	USB wireless adapter USB-WL-11N, Wall mount unit HAS-WM03, TT-03 Table Top Kit, Wall mount adaptor (XGA) HAS-WB01	USB wireless adapter USB-WL-11N, Wall mount unit HAS-WM05, TT-03 Table Top Kit, Wall mount adaptor (WXGA) HAS-WB02	USB wireless adapter USB-WL-11N, Wall mount unit HAS-WM05, TT-03 Table Top Kit, Wall mount adaptor (WXGA) HAS-WB02	Finger Touch Unit FT-01, USB wireless adapter USB-WL-11N, Table top mount TT-03, Wall mount unit HAS-WM05, Wall mount adaptor (WXGA) HAS-WB02, Interactive pen I-PEN4	USB wireless adapter USB-WL-11N, Wall mount unit HAS-WM05, TT-03 Table Top Kit, Wall mount adaptor (WXGA) HAS-WB02
Replacement Lamp / Lamp Wattage	DT01511 / 225W	DT01411 / 250W	DT01411 / 250W	DT01511 / 225W	DT01411 / 250W	DT01511 / 225W	DT01411
Projector / Lamp Warranty	3 Years / 3 Years** (for education and extended warranties please contact your local dealer.)	3 Years / 6 Months** (for education and extended warranties please contact your local dealer.)	3 Years / 6 Months** (for education and extended warranties please contact your local dealer.)	3 Years / 6 Months** (for education and extended warranties please contact your local dealer.)	3 Years / 6 Months** (for education and extended warranties please contact your local dealer.)	3 Years / 3 Years** (for education and extended warranties please contact your local dealer.)	3 Years / 6 Months** (for education and extended warranties please contact your local dealer.)

Our Ultra-Short Throw range features many unique Hitachi innovations, technologies and optional interactive features, giving consistently bright, sharp and powerful images in a wide range of lighting conditions, even in the tightest of spaces.

ULTRA-SHORT THROW
LCD PROJECTORS

*1: A free replacement lamp will be issued if the original lamp is less than 6 months old and it has only been used for less than the hours stated (in Eco Mode) on the lamp warranty from the date of first use. *2: 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 (in Eco Mode) on the 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 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, filters and lamps should achieve these figures. The specification and photography listed is for reference only and may be subject to change.

Hitachi Ultra-Short Throw Projectors
Make a big impact in the smallest spaces

IMAGE OPTIMIZER

KEEPING IMAGE QUALITY CONSISTENTLY HIGH
Over time normal lamps can lose brightness and clarity. Hitachi have created a unique Image Optimizer that automatically adjusts the HDCR and Accentualizer to keep images sharp, clear and as bright.

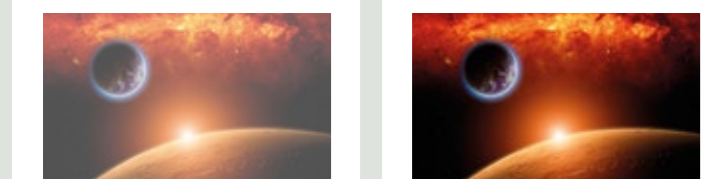First day performance Without Image Optimizer

After several years

With Hitachi Image Optimizer

After several years

HDCR

HIGH DYNAMIC CONTRAST RANGE

Bright Room HDCR Off

Bright Room HDCR On

Hitachi's High Dynamic Contrast Range technology (HDCR) automatically corrects blurred or poor quality images caused by bright environments. Resulting in, clear high contrast images even in the lightest rooms.

ACCENTUALIZER

ACCENTUALIZER
Hitachi's original Accentualizer technology makes pictures look more real by enhancing sharpness, gloss and shade. This can be adjusted by three levels according to your surroundings, by simply using one button on the remote control.
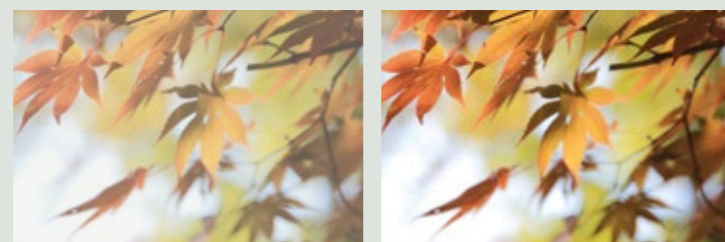
Accentualizer OFF

Accentualizer ON

IMPROVED CONTRAST RATIO

BRING IMAGES TO LIFE
Our Ultra-Short Throw range now features an improved 10,000:1 contrast ratio for more vivid and realistic image quality.

TABLE TOP PROJECTION

TABLE TOP FLEXIBILITY
The flexibility of being able to project from a table top, using our optional table top stand, is Ideal for a small group environment or in a room with limited space.

IMPROVED LAMP LIFE

IMAGECARE™
ImageCare™ Technology is a lamp power control function that combines optimal picture performance with maximum energy savings by decreasing energy usage, improving contrast ratio and lengthening lamp life up to 10,000 hours. The result is lower total cost of ownership and decreased maintenance costs.

DRIVER LESS HID DRIVER

The Hitachi Ultra-Short Throw Interactive does not require a dedicated driver to access the interactive functions, all you need to do is connect via a USB cable and begin your lesson or meeting.

MHL SUPPORT

MOBILE HIGH DEFINITION LINK
Mobile High Definition Link allows you to project the screen from your tablet or mobile phone. It is compatible with any and all Apps and the Ultra-Short Throw Interactive can be used via a remote control device and simultaneously acts as a charger.

CP-AW2505 / 3005, CP-AX2505 / 3005 / 3505

Phone / Tablet
MHL Cable
MHL Adapter

CP-TW2505 / 3005
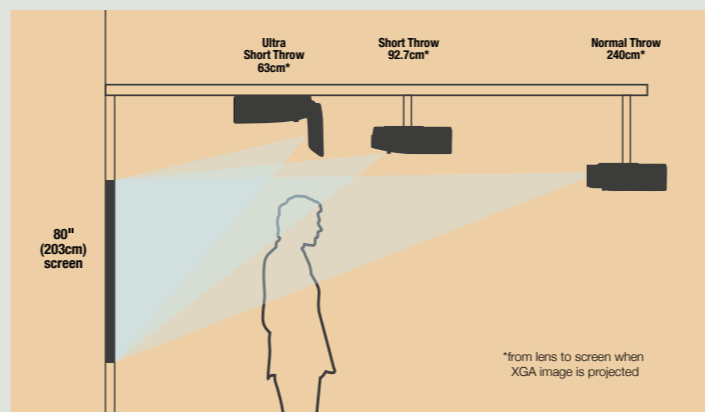
Phone / Tablet
MHL Cable
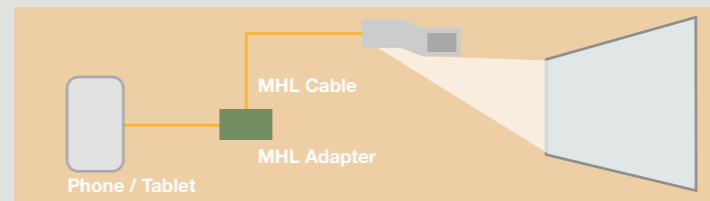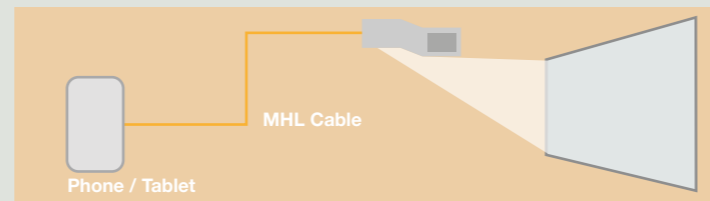
NEW MOUNT UNITS

THREE CHOICES OF MOUNTS
In order to give you complete flexibility and the control to place your projector in its optimum position, you have a choice of three mount units to enable you to fix your projector to a wall or table.

THROW DISTANCE

Ultra Short Throw 63cm*

Short Throw 92.7cm*

Normal Throw 240cm*

80" (203cm) screen

*from lens to screen when XGA image is projected

Ultra-Short Throw technology is the perfect solution to projecting in tight spaces and preventing shadows and glare. It allows the presenter to stand in front of the projector without light shining into their eyes.

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 adaptor enables the projector to communicate both directly or via a wireless network infrastructure, with support for all IEEE 802.11 b/g/n networks and simple plug and play compatibility.
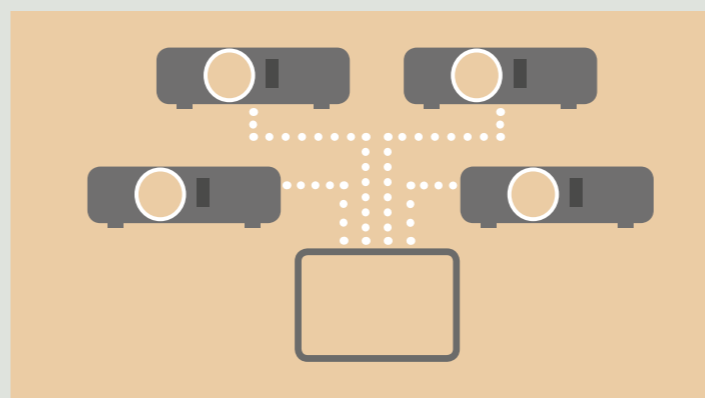

INTERACTIVE FEATURES

PERFECT FIT MEMORY

PERFECT FIT / CALIBRATION 3 SET MEMORY
The Hitachi Ultra-Short Throw Interactive is equipped with a memory feature that has the ability to remember up to three different settings for Perfect Fit and Calibration adjustment. It automatically adjusts the four corners and four sides of the projected image to adapt to the projection area.

Memory 1

Memory 2

Memory 3
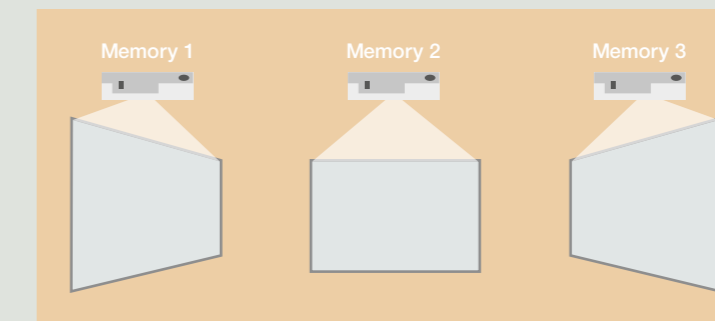
MULTI-TOUCH

With up to 6 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 like never before.

STARBOARD SOFTWARE

INTERACTIVE CONTENT
Ergonomically designed for you to get the most out of every presentation. Capable of importing Powerpoint, Word, PDF and JPEG, with an integrated search engine that allows you to search Google and Wikipedia. Starboards educational resources include more than 5,000 images, backgrounds and flash animations, a community forum as well as an online resource centre. It even has a toolbar that can be customised for different teacher or pupil preferences.
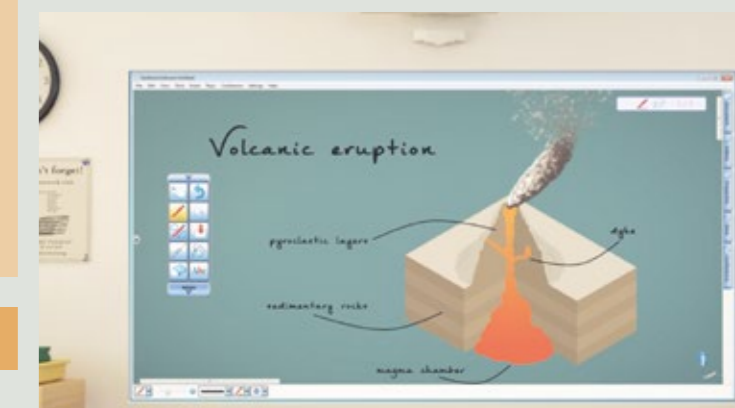
FAST AUTO CALIBRATION

QUICK, EASY CALIBRATION
Although manual calibration will only take a few seconds, Hitachi's Auto Calibration function on the Ultra-Short Throw Interactive makes your set-up time even quicker and easier by calibrating automatically with a touch of a button from your remote control.

INTERACTIVE MULTI SCREEN

CONTINUOUS DRAWING ON TWO SCREENS
The ability to interact with two screens is a very impressive feature that can bring a new dimension to larger applications, the classroom or presentations. With the addition of a driver, the user can draw across both screens.

Interactive features only available on CP-TW2505 and CP-TW3005.