Specifications

Model name	MC-TW3506	MC-TW3006	MC-AW3506	MC-AW3006	MC-AX3506	MC-AX3006
Display system	3LCD					
Display device — Size of effective display area	0.59"aspect ratio 16 : 10				0.63"aspect ratio 4 : 3	
Display device — Number of pixels	1,024,000 pixels (1,280 horizontal × 800 vertical)				786,432 pixels (1,024 horizontal × 768 vertical)	
Lens — Zoom	Digital zoom (1.35×)					
Lens — Focus	Powered					
Light source	250 W (high pressure mercury lamp)					
Screen size	60 ~ 100 inch					
Light output (Brightness)*1	3,700 lm	3,300 lm	3,700 lm	3,300 lm	3,800 lm	3,300 lm
Contrast ratio (full white / full black)*2	20,000 : 1					
Speaker	16 W × 1 mono					
Displayable scanning frequency — Horizontal	15 ~ 106 kHz					
Displayable scanning frequency — Vertical	50 ~ 120 Hz					
Display Resolution — Computer	Full HD (max.) *Native resolution is WXGA.				Full HD (max.) *Native resolution is XGA.	
Display Resolution — Video	1080P (max.) *Native resolution is WXGA.				1080P (max.) *Native resolution is XGA.	

Terminals	
HDMI IN	HDMI connector × 2 (HDCP compliant) *HDMI IN 1 supports MHL input	HDMI connector × 2 (HDCP compliant)
COMPUTER IN 1	Mini D-sub 15-pin connector × 1
COMPUTER IN 2 / MONITOR OUT	Mini D-sub 15-pin connector × 1
VIDEO	RCA connector × 1
AUDIO IN	3.5mm stereo mini connector × 1, RCA connector L,R × 1
AUDIO OUT	3.5mm stereo mini connector × 1
Microphone Input	3.5mm stereo mini connector × 1
CONTROL IN (RS-232C)	D-sub 9-pin connector × 1
LAN	RJ-45 connector × 1
USB-A	USB type A × 2 (PC-LESS Presentation or Wireless adapter (option))
USB-B	USB type B × 1 (Interactive Function, USB mouse control and USB Display)	USB type B × 1 (USB Display and USB mouse control)

Network — Wired	100BASE-TX / 10BASE-T
Network — Wireless (Option*3)	IEEE802.11b/g/n
Operating temperature	0 ~ 40 ℃*4 (When the ambient temperature exceeds 35 ℃, the brightness of the lamp is reduced automatically.)
Operating humidity	20-80%RH (non-condensing)
Power requirements	AC 100 V - 120 V (50/60 Hz), 3.8 A, AC 220 V - 240 V (50/60 Hz), 1.9 A
Power consumption	AC 100 V - 120 V : 380 W, AC 220 V - 240 V : 360 W
Standby mode power consumption	Less than 0.35 W at saving mode*5
Standard outside dimensions (W x H x D)	382 mm × 141 mm × 362 mm (15.0" × 5.6" × 14.3") (Including protruding parts) 377 mm × 136 mm × 360 mm (14.8" × 5.4" × 14.2") (Excluding protruding parts)
Weight	Approx. 4.5 kg (9.9 lbs.)	Approx. 4.3 kg (9.5 lbs.)

Accessories	Remote control with two AA batteries, Power cord, Computer cable, Cable cover, Adapter cover, Lens cover, User's manual, Security label, USB cable, Interactive Pen, AAA batteries, Pen tips, Application DVD	Remote control with two AA batteries, Power cord, Computer cable, Cable cover, Adapter cover, Lens cover, User's manual, Security label

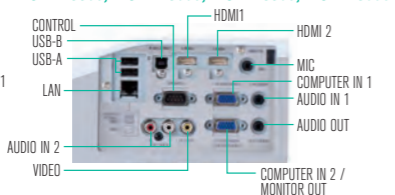| Optional parts		
Lamp	DT01411	
Air filter	UX37191	
Mounting accessories	HAS-AW100 (Bracket for ceiling mount), HAS-203L (Fixing adapter for low ceilings), HAS-P100 (Fixing adapter for high ceilings), HAS-WM03 (Wall mount unit), HAS-WM05 (Wall mount unit)	
Tabletop use kit	TT-03	
USB wireless adapter	USB-WL-5G*6	
Interactive Pen	I-PEN4	-
Finger Touch Unit	FT-01B	-

*1 When PICTURE MODE is set to NOMAL, ACTIVE IRIS is set to OFF, and ZOOM position is WIDE (max.). *2 When PICTURE MODE is set to NOMAL, ACTIVE IRIS is set to ON, and ZOOM position is WIDE (max.). *3 Optional wireless adapter is needed. *4 When the projector is used at high altitudes, the service life of the optical components may be reduced by peripheral temperatures of over about 40°C. It is recommended to reduce the temperature as far as possible. *5 SAVING mode disables the functions of MONITOR OUT, AUDIO OUT, speaker sound, network communication, RS-232C control except POWER ON command, etc. in standby. *6 The availability of the USB wireless adapter varies depending on the country and the region.
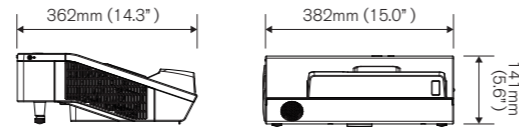
Dimensions

362mm (14.3")   382mm (15.0")   141mm (5.6")

Projection Distance

Placed on the horizontal surface   **Suspended from the ceiling**

*This figures above are not drawn to scale.

MC-TW3506 / MC-TW3006 / MC-AW3506 / MC-AW3006   16 : 10 screen (1,280 × 800)(±8%)

Screen size (diagonal)		Projection distance				Screen height			
	a	b1		b2		c1		c2	
type (inch)	m	m	inch	m	inch	m	inch	m	inch
60	1.5	0.128	5.0	0.409	16.1	0.313	12.3	1.121	44.1
65	1.7	0.163	6.4	0.444	17.5	0.332	13.1	1.207	47.5
70	1.8	0.198	7.8	0.479	18.9	0.351	13.8	1.293	50.9
75	1.9	0.233	9.2	0.514	20.2	0.369	14.5	1.379	54.3
80	2.0	0.268	10.5	0.549	21.6	0.388	15.3	1.465	57.7
85	2.2	0.303	11.9	0.584	23.0	0.407	16.0	1.551	61.1
90	2.3	0.338	13.3	0.619	24.4	0.426	16.8	1.638	64.5
95	2.4	0.373	14.7	0.654	25.7	0.445	17.5	1.724	67.9
100	2.5	0.408	16.1	0.689	27.1	0.464	18.3	1.810	71.3

MC-AX3506 / MC-AX3006   4 : 3 screen (1,024 × 768)(±8%)

Screen size (diagonal)		Projection distance				Screen height			
	a	b1		b2		c1		c2	
type (inch)	m	m	inch	m	inch	m	inch	m	inch
60	1.5	0.104	4.1	0.385	15.2	0.224	8.8	1.138	44.8
65	1.7	0.137	5.4	0.418	16.5	0.235	9.3	1.226	48.3
70	1.8	0.170	6.7	0.451	17.8	0.247	9.7	1.314	51.7
75	1.9	0.203	8.0	0.484	19.1	0.258	10.2	1.401	55.2
80	2.0	0.236	9.3	0.517	20.4	0.270	10.6	1.489	58.6
85	2.2	0.269	10.6	0.550	21.7	0.281	11.1	1.576	62.1
90	2.3	0.302	11.9	0.583	23.0	0.293	11.5	1.664	65.5
95	2.4	0.335	13.2	0.616	24.3	0.304	12.0	1.752	69.0
100	2.5	0.368	14.5	0.649	25.6	0.315	12.4	1.839	72.4

Terminals

MC-TW3506, MC-TW3006

CONTROL, USB-B, USB-A, LAN, AUDIO IN 2, VIDEO, HDMI1/MHL, HDMI 2, MIC, COMPUTER IN 1, AUDIO IN 1, AUDIO OUT, COMPUTER IN 2 / MONITOR OUT

MC-AW3506, MC-AW3006, MC-AX3506, MC-AX3006

CONTROL, USB-B, USB-A, LAN, AUDIO IN 2, VIDEO, HDMI1, HDMI 2, MIC, COMPUTER IN 1, AUDIO IN 1, AUDIO OUT, COMPUTER IN 2 / MONITOR OUT

Environment

▶ Compliance with EU Directive RoHS*1
▶ Reduction of resin usage in production
Use of hot runners in molds for making upper housing in order to reduce mill ends.

*1 RoHS is the acronym of "Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment".

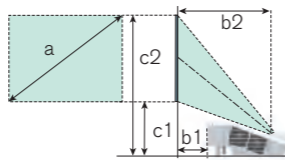—Design and specifications are subject to change without notice.
• The projected images and comparison photos in this catalog are simulations.
• LCD panels, polarizers and other optical components and cooling fans may need replacement after prolonged usage. For more details, please consult a sales representative.
• Do not use in places where there is a lot of water, dampness, steam, dust, soot or tobacco smoke. This may result in fire or malfunction.
• Optical components (lamp, LCD panel, polarizing plate, PBS [polarizer beam splitter]) have limited service lives. They must be repaired or replaced if they are used for a long period of time.
• These projectors use a mercury lamp with high internal pressure. Because of its properties, this lamp may burst with a loud noise or burn out if struck or after it has been used for a period of time. The time until it bursts or burns out varies greatly according to differences between lamps and usage conditions. Turning the lamp`s power on and off frequently shortens its service life.
• Optical components other than the lamp: If the projector is used for six hours or more per day, they may need to be replaced in less than a year.
• LCD panel: If the projector is used continuously for six hours or more, its replacement cycle may be shortened.
• Do not turn projector on again for ten minutes after shutdown. Neglect can shorten the lifetime or the lamp. During use and immediately after use, do not touch anywhere near the lamp and the vents as these parts are extremely hot.
• Each product may have differences of color, brightness and focus due to manufacture variation.
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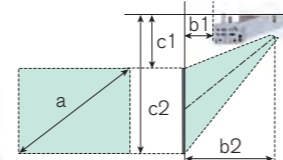
maxell

Maxell, Ltd.   5030 Totsuka-cho, Totsuka-ku Yokohama, 244-0003, Japan   **http://proj.maxell.co.jp/en/**

July 2019   **MHP-E006P** 072019

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maxell
Within the Future

Ultra Short Throw LCD Projector

DIGITAL CINEMA
AVAILABLE AT DIGITAL CINEMA

Ultra short throw projectors that provide vivid images in bright classrooms and meeting rooms

*Projected images are simulations

3LCD   **AMX DEVICE DISCOVERY**   **CRESTRON connected**

Ultra short throw interactive projector
MC-TW3506
MC-TW3006

Ultra short throw projector
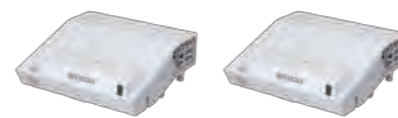MC-AW3506 / MC-AW3006
MC-AX3506 / MC-AX3006

Project visual beauty in real time.
Technology that delivers details in bright environments.

The video processing technology enhances high-definition video in real time. Using this technology, you can enjoy high-definition images without losing the color information of the original image, and project high-definition video in classrooms, lecture halls, large meeting rooms, and other bright spaces.
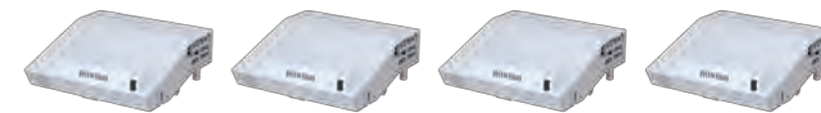
LINE UP * Local availability may be limited.

T series
Ultra Short Throw

MC-TW3506 — WXGA 3,700lm
MC-TW3006 — WXGA 3,300lm

A series
Ultra Short Throw

MC-AW3506 — WXGA 3,700lm
MC-AW3006 — WXGA 3,300lm
MC-AX3506 — XGA 3,800lm
MC-AX3006 — XGA 3,300lm

ACCENTUALIZER

This function makes pictures look more real by enhancing (1) Shade, (2) Sharpness and (3) Gloss to make pictures clear. You can also adjust the effects by three levels according to your surroundings, video contents, etc.

ACCENTUALIZER OFF — Original image
ACCENTUALIZER ON — Increased Shade, Sharpness, and Gloss
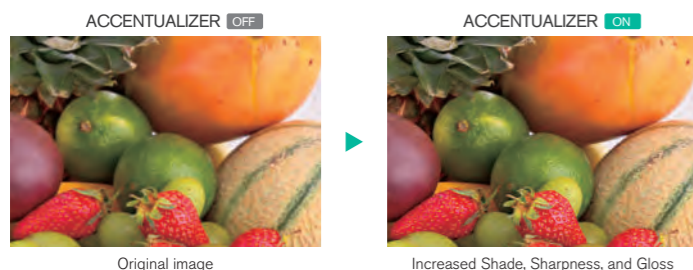
IMAGE OPTIMIZER

Equipped with IMAGE OPTIMIZER that maintains visibility of an image through automatic image correction in accordance with lamp consumption.

• This function may not work properly when HDCR/ACCENTUALIZER is ON.

After long-hour use — IMAGE OPTIMIZER OFF — The entire image becomes dark.
IMAGE OPTIMIZER ON — Dark parts of the image becomes clear.
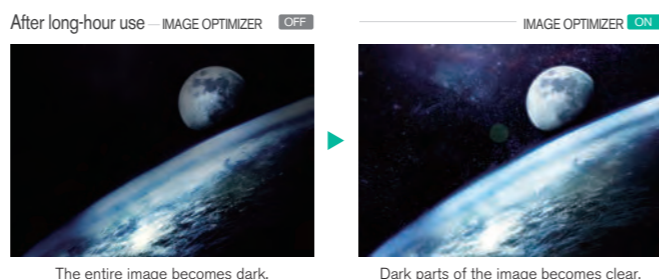
HDCR (High Dynamic Contrast Range)

When average projectors are used in bright rooms, the darker colors of an image deteriorate and images become unclear. Using this function, blurred images caused by room lighting or outside light sources are corrected, and an effect similar to increasing contrast occurs. This results in clear images even in bright rooms.

Dark room — HDCR OFF

Bright room — HDCR OFF — Dark parts are obscure.
HDCR ON — Dark parts are clear. (Distinct)
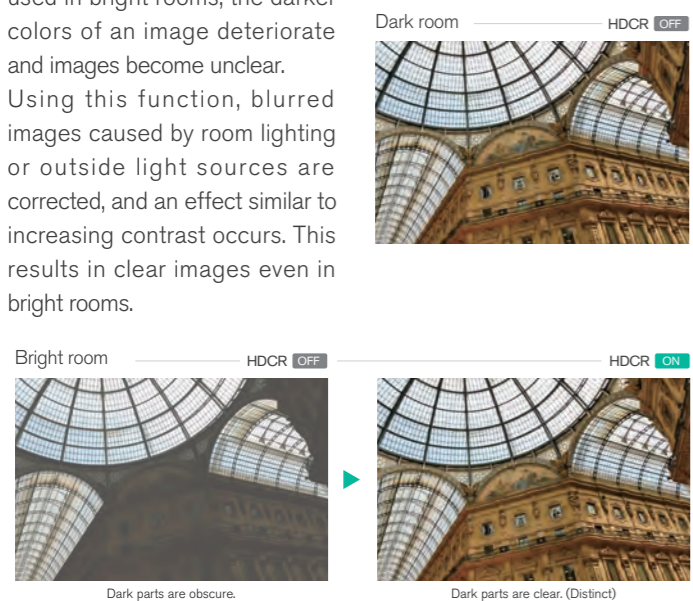
DICOM® Simulation Mode

The DICOM® (Digital Imaging and Communications in Medicine) Simulation Mode projects grayscale images which approximate DICOM® Part 14 specifications. This mode is ideal for viewing grayscale medical images, such as X-rays, for training and educational purposes.

The projectors have a DICOM® (Digital Imaging and Communications in Medicine) Simulation Mode. This mode simulates the DICOM® standard, which is a standard applicable to digital communications in medicine, and is useful for displaying medical images such as X-rays. These projectors are not medical devices and are not compliant with the DICOM® standard, and neither the projector nor the DICOM® Simulation Mode should be used for medical diagnosis.
* Comparison photos are simulations.

Normal Mode
DICOM® Simulation Mode
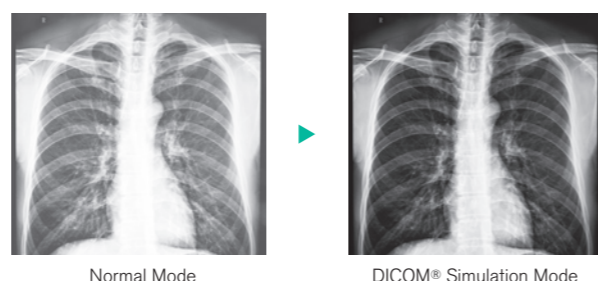
* The above images are representations of the effects and differ from actual images.

MC-TW3506
MC-TW3006
MC-AW3506
MC-AW3006
54.9cm *1

MC-WX5501
2.4m

2.0m (80")
screen
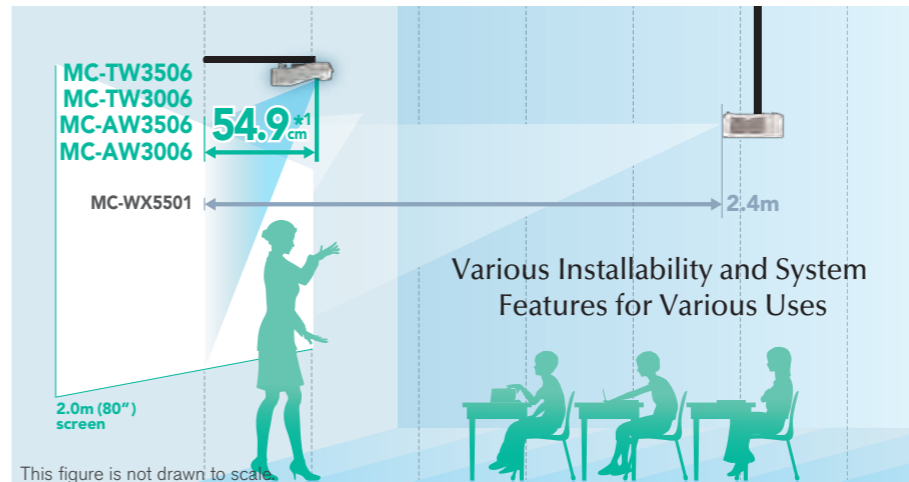
This figure is not drawn to scale.
* MC-AX3506 and MC-AX3006 : 51.7cm (20.4inches)

Various Installability and System Features for Various Uses

Reduced Glare and Shadows

These projectors feature Ultra Short Throw, for projecting a 2m (80inches) image from only 54.9cm (21.6inches)*1 onto a wall or screen. Ultra Short Throw greatly reduces glare from the projector's light source, making it easier for the teacher or presenter to see the audience. The audience also has a clearer view because the shadows of the teacher's or presenter's hands and body are little cast on the projection image. The result is a better classroom or meeting room experience for everyone.
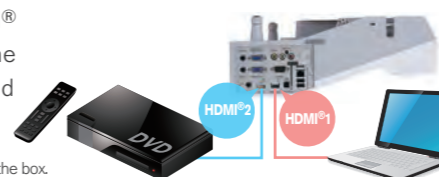
Powered Focus and Perfect Fit

Equipped with powered focus and Perfect Fit with which the position of four corners and four sides of a projected image can be adjusted. With the remote controller at hand, you can adjust focus and the position of an image.

① Projector installation
② Focus adjustment
③ Size and Position adjustments (Perfect Fit)
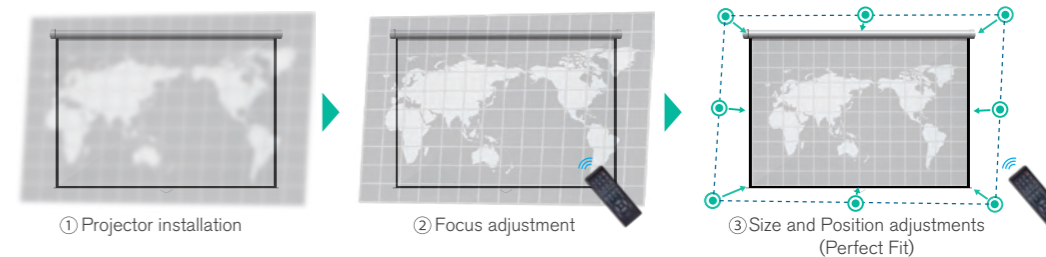
2 - HDMI® & MHL®*2 inputs

Equipped with 2 HDMI® input terminals for the current widely-used interface.

* HDMI® cable is not included in the box.

Project images by connecting a smartphone or tablet that supports MHL® to the projector using an MHL® cable.

*2 For T series projector only. MHL® cable is not included in the box.

MHL® cable

Tabletop Use (Option)

The optional tabletop use kit TT-03 allows to stand the projector vertically and a 1.5m (60") diagonal image down onto a table.

16W Internal Speaker

Equipped with a 16W speaker and microphone terminal that allow you to comfortably make presentations using content with sound or using a microphone.

Various Network Features

Wireless Capability (Option)

Connect a projector to a computer using the optional USB wireless adapter. The adapter supports IEEE 802.11b/g/n.

SIMPLE ACCESS POINT mode

Without an access point

**INFRASTRUCTURE mode**

Access Point

With an access point

Easy WLAN Connection

Searches available wireless networks and displays the list of SSIDs when used in Infrastructure mode. You can select an SSID to connect to from the list.

Access Point Scan List
Access Point 1
Access Point 2
Access Point 3

Access Point 1
Access Point 2
Access Point 3
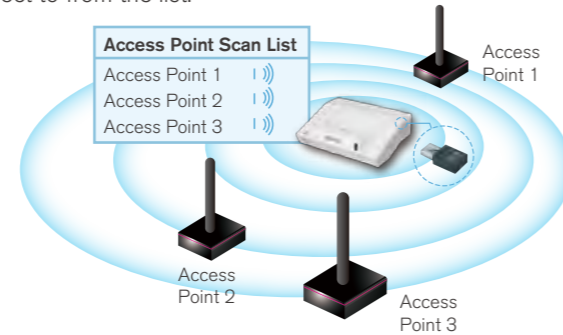
Convenient Networking

Manage and control multiple projectors over your LAN with Centralized Reporting, Scheduling, E-mail Alerts, and My Image (Image Transfer).

LAN

Administration Room
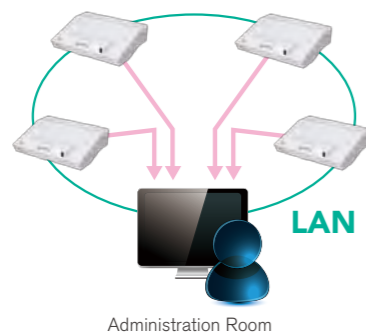
Multi Projector

You can project the same image to up to 12 projectors simultaneously. This is useful for meetings and lectures in large venues where a single screen would not be sufficient.

projector1
projector2
projector3
projector12
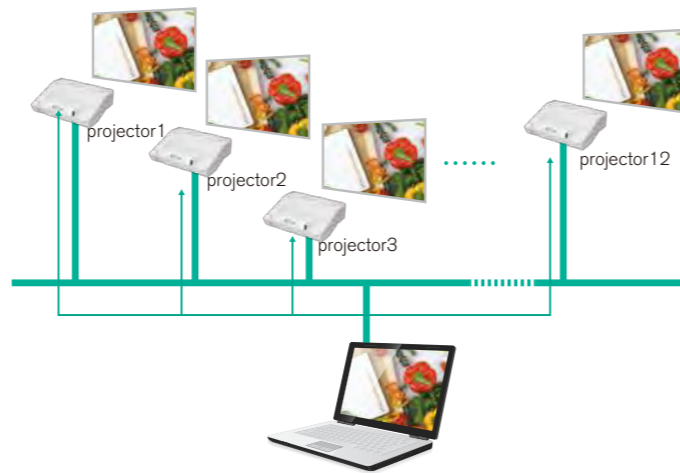
Easy Schedule Setting

You can schedule routine and special projector events, including power on, power off, input selection and other settings.

EVENT SCHEDULE
MONDAY to FRIDAY
08:00   POWER   ON
        INPUTSOURCE   COMPUTER IN 1
12:30   INPUTSOURCE   HDMI 1
17:00   POWER   OFF

Moderator Control Mode

Setting one computer from the multiple computers (up to 50) that are connected to the projector as the moderator (host) makes it possible for the moderator to project from the other computers (Clients).

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

Computer1 (Client)
Computer2 (Client)
Computer3 (Client)
Computer49 (Client)
Moderator (Host)
Projector

Smart Device Control

Plugging the optional USB wireless adapter to the projector and using the dedicated free online application developed by Maxell, projectors can be controlled from a tablet or smartphone.

* See the Maxell website for details http://biz.maxell.com/en/

Go Green

Saver Mode

*Image*Care
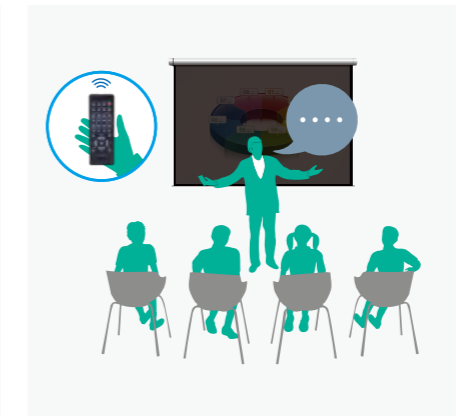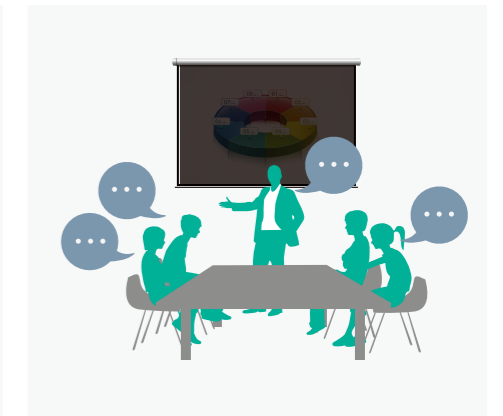
This feature developed by Maxell reduces the projector lamp brightness and consumption power, resulting in considerable energy savings. Set the Saver mode time from 1 to 30 minutes, and if the projected image does not change in that time, Saver mode activates. Saver mode can also be activated manually.

During a presentation using the screen.

Darken the screen with the remote control while the presenter speaks.

The screen automatically turns dark when not in use during group discussions.

Intelligent Eco Mode

*Image*Care

This feature developed by Maxell automatically changes the brightness of the lamp according to the level of the input signal. Lamp brightness is reduced when a darker image is projected, and returns to normal when a brighter image is projected, eliminating unnecessary energy consumption from the lamp.

High Reliability and Stability

Easy Maintenance

The lamp door and the filter cover are located on the top and the side, facilitating maintenance and replacement even when the projector is installed on the ceiling.

Hybrid Filter

The hybrid filter is composed of an unwoven cloth and a static electrode filter, protecting the optics from dust, dirt, and chalk particles. The filter can last up to 4,000 hours[1] without cleaning.

This is an estimate of the acceleration test performed under the condition of 50mg/m³ suspension dust concentration using JIS (Japanese Industrial Standards) standard powder. Cleaning intervals vary depending on the use environment.
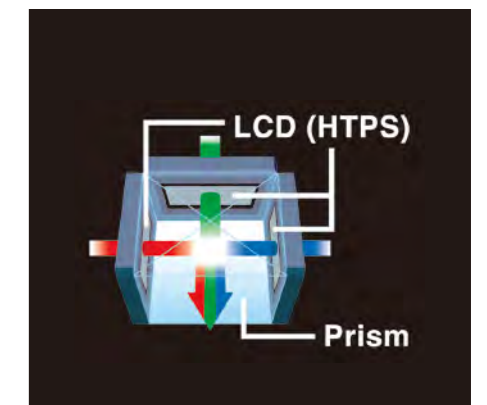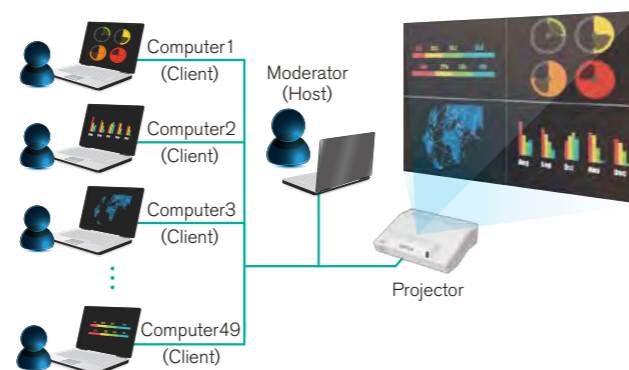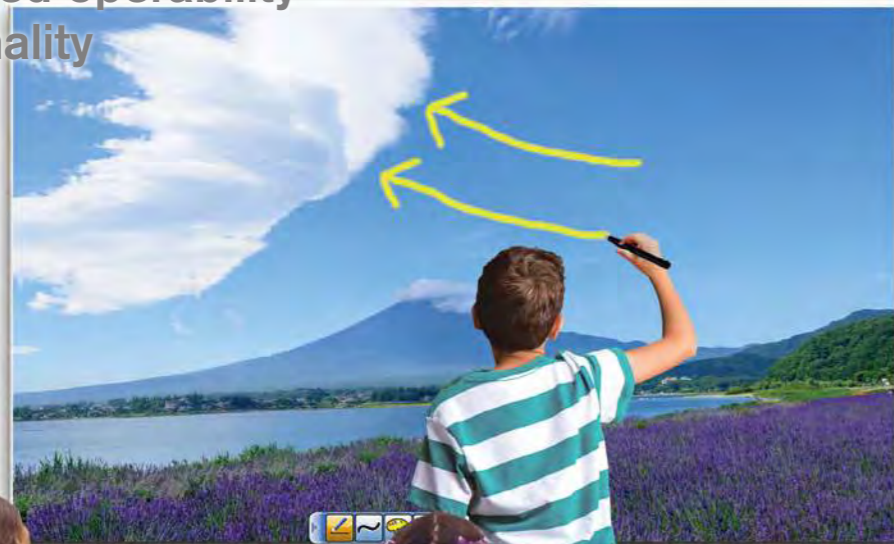
3LCD chips with Inorganic Alignment Layers

These Maxell 3LCD projectors incorporate three LCD panels with inorganic alignment layers that are light resistant, increasing brightness and contrast ratio. They provide smooth images and high reliability.

LCD (HTPS)
Prism

# An interactive function with enhanced operability and functionality

Advanced Writing/Drawing Capabilities

PC less Drawing

T Series projector comes with a built-in drawing function allowing you to directly draw and write on the projected screen without a PC.

Directly Draw on the Projected Screen

You can write and draw on images projected from connected devices such as Document camera.

Direct connection

Flask

Beaker
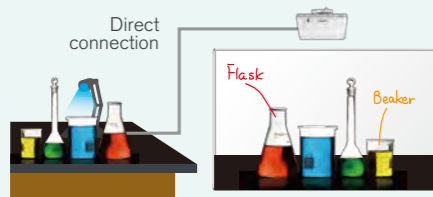
Save and Open Drawn Screens

You can save the image drawn on the projector screen. This enables you to easily manage what you've taught in the past.

Convenient Painter Tool

Equipped with the Pen, Eraser, Undo, Redo functions. You can also change the pen color and thickness. With the easy-to-use Painter tool bar, you can teach classes smoothly.

Variety Rich Templates

You can conveniently use the interactive function with over 100 pre-installed templates including graphs, Graphic Organizers, Plain Color, and many more.

Finger Touch (Option)

The T Series projector incorporates the optional finger touch unit that enables the projector to detect finger touch activity on the screen area. 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 for hands-on interactivity that brings learning to life.

* When using the finger touch unit at bright environment, auto calibration may not be used.
* Please use the finger touch unit on a flat screen.
* The finger touch unit may not be used in locations where there is sunlight or light from an incandescent light source.

core
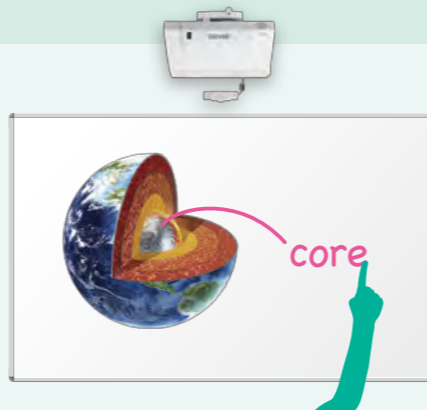
Multiple interactive pens

With up to 6 interactive pens pupils can do more than just watch - they can interact with the onscreen content. Let them enjoy providing answers, showing their understanding and becoming involved in lessons as never before.

earth

Windows® multi touch

Windows® 8.1 / 10 multi touch allows users with touch enabled Windows® 8.1 / 10 systems to operate the PC directly from the interactive screen with up to 6 of pens or touches* including Windows® 8.1 / 10 gesture.
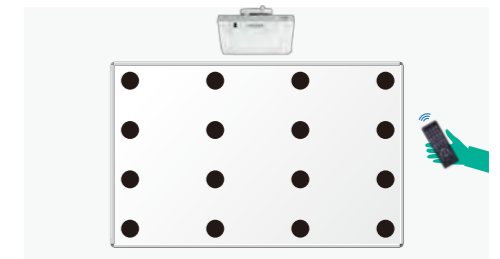
* Optional finger touch unit is required.
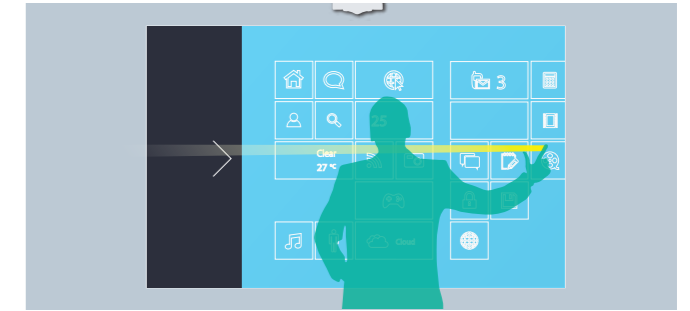
Auto Calibration

Auto calibration is completed easily and quickly with the remote control. Calibration can be performed and the interactive function can be used on both the 16 : 10 and 4 : 3 screen type.

* The image for aligning the position is displayed automatically.

Interactive Software

**This product includes a drawing application that offers more sophisticated drawing functions.**

Neatly Convert Letters or Figures

You can automatically convert freehand shapes into geometric objects and handwriting into text on the projected image. These operations are easily accomplished with the interactive pen.

AB CD
↓
ABCD

Select a Variety of Useful Tools

The interactive pen lets you operate a compass, ruler, protractor, stopwatch and other useful tools on the projected image, making lessons even easier to understand.

Compass Ruler Protractor Stopwatch
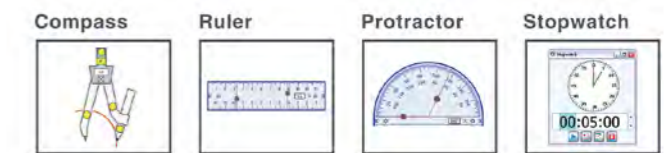
System requirements for drawing application
■ **Windows®**
· **CPU:** Intel® Core™ (1.8GHz or higher) · **HDD:** 2GB free space · **Memory:** 2GB or more · **Display:** 32bit · **OS:** Windows® 7 (32/64bit), Windows® 8.1 (32/64bit), Windows® 10 (32/64bit) (The drawing application has been verified with the latest service pack at the time of release. The drawing application does not support Windows® Tablet PC Edition and Server Edition.) · **Network:** Internet-connected environment · **Application:** Internet Explorer® 11, Microsoft® Word 2013/2016, Microsoft® Excel® 2013/2016, Microsoft® PowerPoint® 2013/2016, Adobe® Reader® X/XI, Adobe® Acrobat® Reader® DC, Adobe® Flash® Player 18 · **Others:** DVD-ROM drive, Video cards supporting hardware overlay (when using the video function) [When using the Webcam function] DV (digital video devices, DV camera, D-VHS etc.), Capture Devices that supports DirectShow with WDM driver [For hosting a remote conference] · **CPU:** Intel® Core™ i3 or higher · **HDD:** 2GB or more · **Memory:** 2GB or more · **Others:** TCP/IP Network of 54Mbps or greater [When i-learn: maths toolbox is used] · **Display:** 1024x768 or more · **Application:** Adobe® Reader® · **Others:** 32bit color 3D video card
■ **Macintosh**
· **CPU:** Intel® Core™ Duo (1.8 GHz or higher) · **HDD:** 2 GB free space · **Memory:** 2GB or more · **Display:** High Color (16bit) or more · **OS:** Mac OS X 10.10 / 10.11 / 10.12 / 10.13 · **Network:** Internet-connected environment · **Application:** Apple QuickTime® 7.6 or later, Adobe® Flash® Player 18 · **Others:** DVD-ROM drive [When hosting a remote conference] · **CPU:** Intel® Core™ i3 or higher · **HDD:** 2GB or more · **Memory:** 2GB or more · **Others:** TCP/IP Network of 54Mbps or greater [When Hearn: maths toolbox is used] · **Display:** 1024 x 768 or more · **Application:** Adobe® Reader® · **Others:** 32bit color 3D video card