Laser Projector

maxell
Within the Future

High resolution and low noise laser projector, suitable for use in lecture rooms and mid-sized conference rooms

3LCD

AMX DEVICE DISCOVERY

CRESTRON connected

Extron XTP CERTIFIED

MP-WU5603
MP-WU5503

*Projected images are simulations
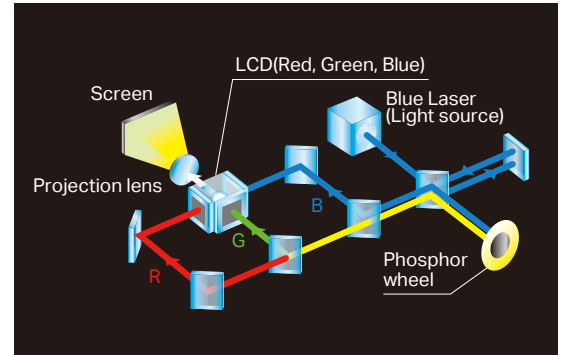
High Reliability and Stability

Long Life 20,000 hour Laser Light Source

Maxell's laser light source projectors have 20,000 hours[1] of light source life. Use for 50,000 hours[1] can be achieved in LONG LIFE 2 mode. Also, users may select their desired operation mode.

Furthermore, in addition to the light source, the phosphor wheel is also dust resistant, suppressing brightness level reduction by preventing dust from coming into contact with the optical parts.

Users can enjoy using the projector for long periods of time while maintaining its brightness. Additionally, though the device is a 5,000 lm projector, it has achieved a low noise of 32 dB. This is an optimal feature for presentations and seminars.
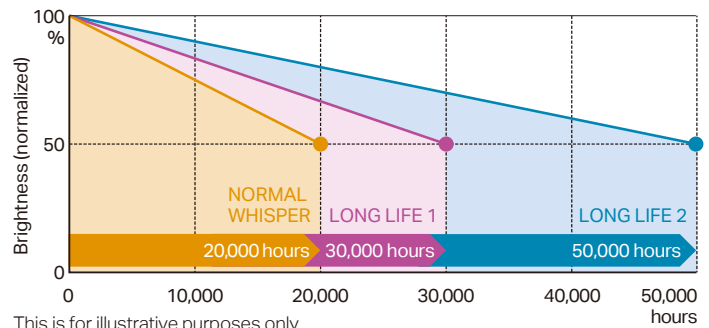
[1] For laser light source. The value is an estimate and may vary depending on the use environment or use condition.

Screen — Projection lens — LCD(Red, Green, Blue) — Blue Laser (Light source) — Phosphor wheel — R — G — B

LIGHT OUTPUT	Brightness[2]		Light source life[3]	Noise[4]	
	MP-WU5603	MP-WU5503		MP-WU5603	MC-WU5503
NOMAL	6,000 lm	5,000 lm	20,000 hours		
LONG LIFE 1	4,200 lm	3,750 lm	30,000 hours	36 dB	32 dB
LONG LIFE 2	3,000 lm	2,500 lm	50,000 hours		
WHISPER	3,000 lm	2,500 lm	20,000 hours	27 dB	

[2] These are reference values and may vary depending on products. [3] The values are an estimate and may vary depending on the usage environment or use condition. [4] Reference values when used in an ambient temperature of 23 °C. The noise level varies by the projector model, installation environment, and use condition.

Brightness Deterioration Comparison between Light Output Modes

Brightness (normalized) %. NORMAL WHISPER 20,000 hours — LONG LIFE 1 30,000 hours — LONG LIFE 2 50,000 hours

This is for illustrative purposes only.

Hybrid Filter

Hybrid Filter requires less frequent maintenance and cleaning , making 20,000 hours of operation possible[5].

[5] 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.
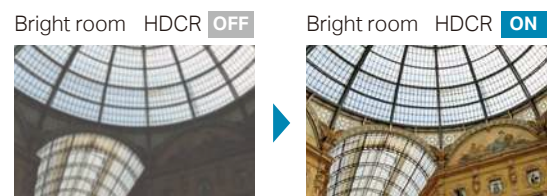
High Image Quality

ACCENTUALIZER and HDCR

ACCENTUALIZER makes pictures look more real by enhancing shade, sharpness, and gloss to make pictures clearer. The HDCR function corrects blurred images caused by room lighting or outside light sources, and creates an effect similar to increasing contrast resulting in clear images even in bright rooms.

* Comparison photos are simulations.

Bright room HDCR OFF → Bright room HDCR ON

MP-WU5603

| WUXGA | 6,000 lm |

3LCD | LASER Light Source

MP-WU5503

| WUXGA | 5,000 lm |

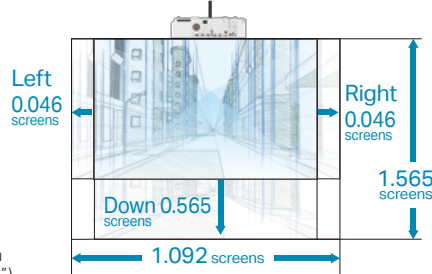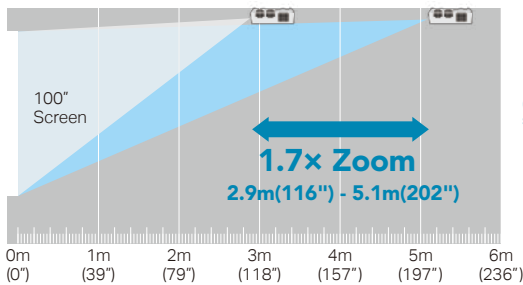3LCD | LASER Light Source

Local availability may be limited.

Installability

Lens shift and zoom lens

Featuring a powerful 1.7× manual zoom lens, the projectors allow for a greater range of installation possibilities. Manually shift the lens horizontally and vertically to position the image on the screen without causing keystone distortion.

*The figure are not drawn to scale.

100" Screen

1.7× Zoom
2.9m(116") - 5.1m(202")

| 0m (0") | 1m (39") | 2m (79") | 3m (118") | 4m (157") | 5m (197") | 6m (236") |

Lens shift area (at ceiling mount position)

Left 0.046 screens
Right 0.046 screens
Down 0.565 screens
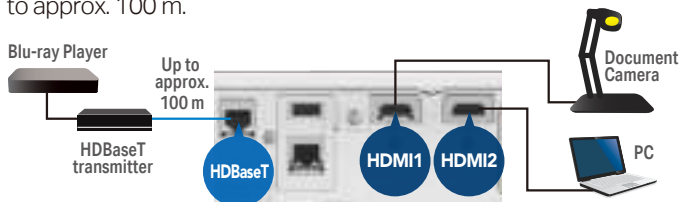1.565 screens
1.092 screens

360° Projection

This projector provides great installation flexibility as it can be installed at various angle. By rotating the projector 90 degrees, you can project vertically long images (Portrait Projection).

360°

Convenient Functions

Digital Connectivity

Equipped the HDBaseT™ and 2 HDMI input terminals. HDBaseT input, capable of transmitting signals switch no image degradation using a standard LAN cable (Cat5e or higher, shielded type) of up to approx. 100 m.

Blu-ray Player

Up to approx. 100 m

HDBaseT transmitter

HDBaseT | HDMI1 | HDMI2

Document Camera

PC

PbyP and PinP *6

You can simultaneously display 2 different picture signals in both the main area and sub area. In PbyP, displayed in the display size ratio. In PinP, the sub area position can be changed. This can be used when comparing documents and for discussions.
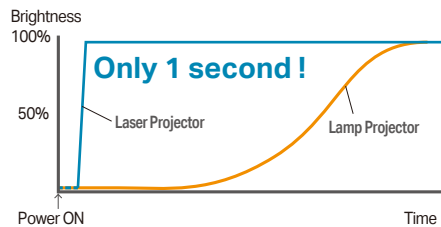
Main area | Sub area

*6 The function is not available depending on combination of input signals.

Quick Start *7

When STAND BY MODE is set to QUICK START, projection starts within 1 second*8 of turning on. You can use to start presentation and class quickly.

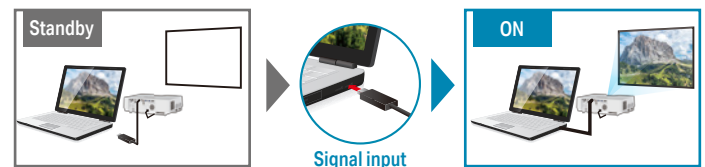*7 The standby power consumption of the mode is higher than the other modes.
*8 QUICK START is disabled in 30 minutes and the mode operating to same as NORMAL.

Brightness
100%

Only 1 second !

50%

Laser Projector

Lamp Projector

Power ON   Time

This is for illustrative purposes only.

Auto Power ON *9

The projector can turn the power on to display the input image automatically when the input signal comes from connected devices.

Standby

Signal input

ON

*9 Supported terminal are COMPUTER IN 1, HDMI 2 and VIDEO. This function is unavailable when STANDBY MODE is set to WOL or SAVING. This function may work unintentionally by connected external device.

Other Functions

• Easy Schedule Setting • DICOM® Simulation Mode*10 • 16W Internal Speaker • Smart Device Control & Monitoring*11 • Moderator Control Mode*12 • PIN lock • Key lock • Projector cloning setup application*13

*10 This projector is not a medical device and is not compliant to the DICOM standard, and neither the projector nor this function should be used for medical diagnosis. *11 To use Smart Device Control, an exclusive application, "PJ Quick Connection" is required. Visit to the maxell projector web site. **http://biz.maxell.com/en/display_equipment/** *12 To use Smart Device Control, an exclusive application, "LiveViewer" is required. Visit to the maxell projector web site. **http://biz.maxell.com/en/display_equipment/** This function is for Windows users only. *13 To use ,an exclusive application, "Projector Data Cloning Application" is required. Visit to the maxell projector web site. **http://biz.maxell.com/en/display_equipment/**

Specifications

		MP-WU5603	MP-WU5503
Model name		MP-WU5603	MP-WU5503
Display system		3LCD	
Display device	Size of effective display area	0.64", aspect ratio 16 : 10	
	Number of pixels	2,304,000 pixels (1,920 horizontal × 1,200 vertical)	
Lens	Zoom	Manual (1.7×)	
	Focus	Manual	
	Lens shift	Manual (V : 0 ~ +56.5 %, H : ±4.6 %)	
Light source		Laser diode	
Screen size		30 ~ 300 inch	
Light output (Brightness)*1		6,000 lm	5,000 lm
Contrast ratio (full white / full black)*2		1,500,000 : 1	
Speaker		16 W × 1 mono	
Displayable scanning frequency	Horizontal	15 ~ 106 kHz	
	Vertical	24 ~ 120 Hz	
Display Resolution	Computer	VGA, SVGA, XGA, WXGA, WXGA+, SXGA, WSXGA+, UXGA, Full HD, Mac 16", WUXGA*3	
	Video	NTSC, NTSC4.43, PAL, SECAM, PAL-M, PAL-N, PAL(60 Hz), 480i@60, 480p@60, 576i@50, 576p@50, 720p@50/60, 1080i@50/60, 1080p@50/60, 4K × 2K(3840 × 2160)@24/25/30*4, 4K × 2K(4096 × 2160)@24/25/30*4	
Terminals	HDMI IN	HDMI connector × 2	
	COMPUTER IN 1	Mini D-sub 15-pin connector × 1	
	COMPUTER IN 2 / MONITOR OUT	Mini D-sub 15-pin connector × 1	
	VIDEO IN	RCA connector × 1	
	HDBaseT	RJ-45 connector × 1	
	AUDIO IN	3.5mm stereo mini connector × 2, RCA connector (L, R) × 1	
	AUDIO OUT	3.5mm stereo mini connector × 1	
	CONTROL IN (RS-232C)	D-sub 9-pin connector × 1	
	LAN	RJ-45 connector × 1	
	WIRELESS	USB type A × 1 (wireless adapter (option))	
Network	Wired	100BASE-TX / 10BASE-T	
	Wireless (Option*5)	IEEE 802.11a/b/g/n/ac	
Operating temperature		0 ~ 40 ℃*6 (The brightness of light source may be reduced automatically over 35 ℃.)	
Operating humidity		10 - 80%RH (non-condensing)	
Power requirements		AC 100 V - 120 V (50 / 60 Hz) : 4.3 A AC 220 V - 240 V (50 / 60 Hz) : 2.1 A	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 (50 / 60 Hz) : 420 W AC 220 V - 240 V (50 / 60 Hz) : 400 W	AC 100 V - 120 V (50 / 60 Hz) : 370 W AC 220 V - 240 V (50 / 60 Hz) : 360 W
Standby mode power consumption		Less than 0.5 W at saving mode*7	
Standard outside dimensions (W × H × D)		512 mm × 154 mm × 424 mm (20.2" × 6.1" × 16.7") (Including protruding parts), 506 mm × 136 mm × 424 mm (19.9" × 5.4" × 16.7") (Excluding protruding parts)	
Weight		Approx. 8.5 kg (18.7 lbs.)	Approx. 8.2 kg (18.1 lbs.)
Accessories		Remote control with two AA batteries, Power cord, Computer cable, User's manual, Security label, Lens cover, Hook metal, Screw, HDMI cable holder, Cable tie	
Optional parts	USB wireless adapter	USB-WL-5G*8	
	Air filter	UX43581	
	Mounting accessories	HAS-9110 (Bracket for fixing mount), HAS-104S (Slim adapter for fixing mount), HAS-204L (Standard adapter for fixing mount), HAS-304H (Long adapter for fixing mount)	

*1: When PICTURE MODE is set to DYNAMIC, DYNAMIC BLACK is OFF and LIGHT OUTPUT is set to Normal 100 %.
*2: When PICTURE MODE is set to DYNAMIC, DYNAMIC BLACK is ON and LIGHT OUTPUT is set to Normal 100 %.
*3: WUXGA (60 Hz) Reduced Blanking only.
*4: Only for HDMI1 and HDBaseT.
*5: Optional wireless adapter is needed.
*6: 0 - 40 ℃ at altitude from 0 m to 1,600 m. 0 - 35 ℃ at altitude from 1,600 m to 3,048 m.
*7: SAVING mode disables the functions of MONITOR OUT, AUDIO OUT, speaker sound, network communication, RS-232C control except POWER ON command, etc. in standby.
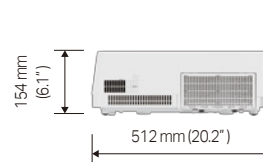*8: The availability of the USB-WL-5G varies depending on the country and the region.

Environment

▶ **Compliance with EU Directive RoHS*1**
▶ **Power saving mode engaged during standby**
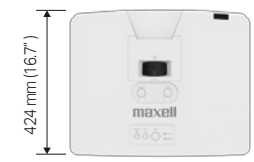▶ **Long Life mode**
▶ **No use of mercury lamp**

*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.
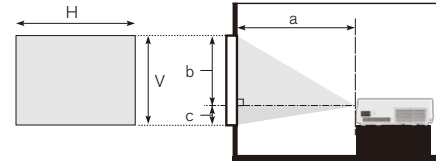
Dimensions

[Side view]

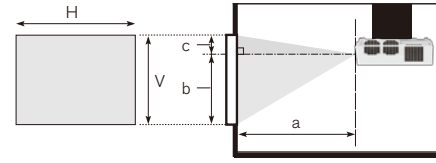154 mm (6.1")
512 mm (20.2")

[Top view]

424 mm (16.7")
maxell

Projection Distance

Placed on the horizontal surface

Suspended from the ceiling

H x V : Screen size
a : Projection distance (from the projector's front panel to screen. Tolerance ±10%)
b : Screen height from lens center to top (when installed on a horizontal surface)
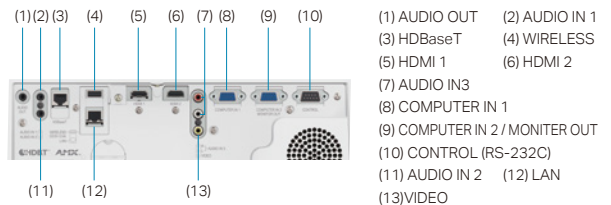c : Screen height from lens center to bottom (when installed on a horizontal surface)

*The figures above are not drawn to scale.

MP-WU5603, MP-WU5503 16 : 10 screen (1,920 × 1,200) (±10%)

Screen type	Screen size				Projection distance				Lens shift bottom side max.				Lens shift top side max.			
	H		V		a (min.)		a (max.)		b		c		b		c	
(inch)	m	inch	m	inch	m	inch	m	inch	cm	inch	cm	inch	cm	inch	cm	inch
60	1.3	51	0.8	32	1.7	67	3.0	119	40	16	40	16	86	34	-5	-2
80	1.7	68	1.1	42	2.3	92	4.1	161	54	21	54	21	115	45	-7	-3
100	2.2	85	1.3	53	2.9	116	5.1	202	67	26	67	26	143	56	-9	-3
120	2.6	102	1.6	64	3.6	140	6.2	244	81	32	81	32	172	68	-11	-4
150	3.2	127	2.0	79	4.5	177	7.8	307	101	40	101	40	215	85	-13	-5
200	4.3	170	2.7	106	6.0	238	10.4	411	135	53	135	53	287	113	-18	-7

Terminals

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)
(11) (12) (13)

(1) AUDIO OUT
(2) AUDIO IN 1
(3) HDBaseT
(4) WIRELESS
(5) HDMI 1
(6) HDMI 2
(7) AUDIO IN3
(8) COMPUTER IN 1
(9) COMPUTER IN 2 / MONITER OUT
(10) CONTROL (RS-232C)
(11) AUDIO IN 2
(12) LAN
(13) VIDEO

―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 (light source, 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. • During use and immediately after use, do not touch anywhere near the vents as these parts are extremely hot. • Optical components other than the light source: 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. • Each product may have differences of colors brightness and focus due to manufacture variation. • Blu-ray Disc™ and Blu-ray™ are trademarks of Blu-ray Disc Association. • Crestron® and Crestron RoomView® are registered trademarks of Crestron Electronics, Inc. in the United States and other countries. • DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information. • HDBaseT™ and the HDBaseT Alliance logo are trademarks of the HDBaseT Alliance. • HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries. • Extron® is registered trademark of RGB Systems, Incorporated. • All other trademarks are the properties of their respective owners.
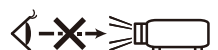
LASER RADIATION
AVOID DIRECT EYE EXPOSURE
CLASS 3R LASER PRODUCT
Wavelength : 449-461 nm
Max. Output : 168 mW
IEC 60825-1:2007

RAYONNEMENT LASER
ÉVITER D'EXPOSER
DIRECTEMENT LENS YEUX
PRODUIT LASER DE CLASSE 3R
Longueur D'onde : 449-461 nm
Sortie max. : 168 mW
IEC 60825-1:2007

雷射輻射
避免眼睛受到直接照射
3R類雷射產品
波長 : 449-461 nm
最大輸出 : 168 mW
IEC 60825-1:2007

⚠ **CAUTION**

RG2

CLASS 1 LASER PRODUCT
PRODUIT LASER DE CLASSE 1
LASERPRODUKT DER KLASSE 1
1類鐳射產品
IEC/EN 60825-1:2014

LASER APERTURE
OUVERTURE LASER
LASERÖFFNUNG
雷射窗口

LASER ENERGY – EXPOSURE NEAR APERTURE MAY CAUSE BURNS
ÉNERGIE LASER – L'EXPOSITION PRÈS DE L'OUVERTURE PEUT PROVOQUER DES BRÛLURES
LASERENERGIE – AUSSETZUNG IM BEREICH DER ÖFFNUNG KANN VERBRENNUNGEN VERURSACHEN
雷射能量–暴露於光圈附近可能會導致燙傷

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