Specifications

Model name	MP-WU5603	MP-WU5503	MP-WX5603	MP-WX5503
Display system	3LCD			
Display device — Size of effective display area	0.64″ × 3, aspect ratio 16 : 10			
Display device — Number of pixels	2,304,000 pixels (1,920 horizontal × 1,200 vertical)		1,024,000 pixels (1,280 horizontal × 800 vertical)	
Lens — Zoom	Manual (1.7×)		Manual (1.6×)	
Lens — Focus	Manual			
Lens — 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	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			
Displayable scanning frequency — Vertical	24 ~ 120 Hz			
Display Resolution — Computer	WUXGA*3 (max.) *Native resolution is WUXGA.		Full HD (max.) *Native resolution is WXGA.	
Display Resolution — Video	4096 × 2160*4 (max.) *Native resolution is WUXGA.		4096 × 2160*4 (max.) *Native resolution is WXGA.	
Terminals — HDMI IN	HDMI connector × 2 (HDCP 1.4 compliant)			
Terminals — COMPUTER IN 1	Mini D-sub 15-pin connector × 1			
Terminals — COMPUTER IN 2 / MONITOR OUT	Mini D-sub 15-pin connector × 1			
Terminals — VIDEO IN	RCA connector × 1			
Terminals — HDBaseT	RJ-45 connector × 1			
Terminals — AUDIO IN	3.5mm (stereo) mini connector × 2, RCA connector (L, R) × 1			
Terminals — AUDIO OUT	3.5mm stereo mini connector × 1			
Terminals — CONTROL IN (RS-232C)	D-sub 9-pin connector × 1			
Terminals — LAN	RJ-45 connector × 1			
Terminals — WIRELESS	USB type A × 1 (The separately sold USB wireless adapter is necessary for this function)			
Network — Wired	100BASE-TX / 10BASE-T			
Network — Wireless (Option*5)	IEEE 802.11a/b/g/n/ac			
Operating temperature	0 ~ 40 °C (32 ~ 104 °F) at altitudes from 0 to 3,048 m (0 to 10,000 ft). The brightness of light source may be reduced automatically over 35 °C (95 °F).			
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	AC 100 V - 120 V (50/60 Hz), 4.1 A / AC 220 V - 240 V (50/60 Hz), 2.1 A	AC 100 V - 120V (50/60 Hz), 3.6 A / AC 220 V - 240V (50/60 Hz), 1.8 A
Power consumption	AC 100 V-120 V : 420 W / AC 220 V-240 V : 400 W	AC 100 V - 120 V : 370 W / AC 220 V - 240 V : 360 W	AC 100 V - 120 V : 400 W / AC 220 V - 240 V : 390 W	AC 100 V - 120 V : 350 W / AC 220 V - 240 V : 340 W
Standby mode power consumption	Less than 0.5W at saving mode*6			
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.)		Approx 7.9 kg (17.4 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*7			
Optional parts — Air filter	UX43581			
Optional parts — 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 Laser Mode is set to Normal 100 %, zoom position is WIDE (max.), and the lens shift position is center. *2 : When PICTURE MODE is set to DYNAMIC, DYNAMIC BLACK is ON and Laser Mode is set to Normal 100 %, zoom position is WIDE (max.), and the lens shift position is center. *3: WUXGA (60 Hz) Reduced Blanking only. *4: 4096 × 2160(24/25/30) is supported on the HDMI IN1 and HDBaseT terminals.
*5: Optional wireless adapter is needed. *6: SAVING mode disables the functions of MONITOR OUT, AUDIO OUT, speaker sound, network communication, RS-232C control except POWER ON command, etc. in standby. *7: The availability of the USB-WL-5G varies depending on the country and the region.

Dimensions

[Front view]

512 mm (20.2″)

[Side view]

154 mm (6.1″)

424 mm (16.7″)

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

MP-WX5603, MP-WX5503 16 : 10 screen (1,280 × 800) (±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	1.5	60	2.6	101	40	16	40	16	86	34	-5	-2
80	1.7	68	1.1	42	2.1	83	3.5	137	54	21	54	21	115	45	-7	-3
100	2.2	85	1.3	53	2.7	105	4.4	173	67	26	67	26	143	56	-9	-3
120	2.6	102	1.6	64	3.2	127	5.3	209	81	32	81	32	172	68	-11	-4
150	3.2	127	2.0	79	4.1	161	6.7	263	101	40	101	40	215	85	-13	-5
200	4.3	170	2.7	106	5.5	217	9.0	354	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 / MONITOR OUT
(10) CONTROL (RS-232C)
(11) AUDIO IN 2
(12) LAN
(13)VIDEO

Environment

▶ **Compliance with EU Directive RoHS*1**   ▶ **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.

—**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 color, 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 LES 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

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

LASER APERTURE
OUVERTURE LASER
LASERÖFFNUNG
雷射窗口

RG2

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

QL58221

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maxell
Within the Future

Laser Projector

High resolution and low noise laser projector, suitable for use in lecture rooms and mid-sized conference rooms
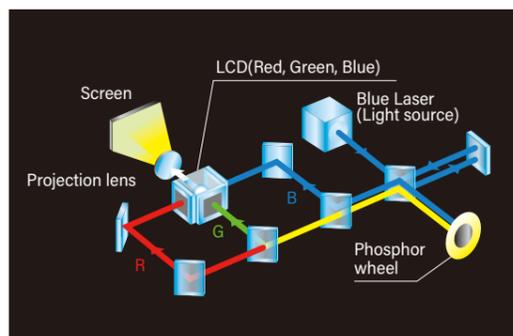
MP-WU5603
MP-WU5503

MP-WX5603
MP-WX5503

AMX DEVICE DISCOVERY   CRESTRON connected   Extron XTP CERTIFIED   3LCD   LASER Light Source

*Projected images are simulations

MP-WU5603
WUXGA | 6,000 lm

MP-WU5503
WUXGA | 5,000 lm

MP-WX5603
WXGA | 6,000 lm

MP-WX5503
WXGA | 5,000 lm

Installability

Lens shift and zoom lens

MP-WU5603 and MP-WU5503 projectors feature a powerful 1.7× manual zoom lens*6, 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.

*6 MP-WX5603 and MP-WX5503 projectors have a 1.6x manual zoom lens.   *The figures are not drawn to scale.

100" Screen

1.7× Zoom
2.9 m(116") - 5.1 m(202")
for MP-WU5603 / MP-WU5503*7

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

*7 1.6x Zoom, 2.7m(105") - 4.4m(173") for MP-WX5603/MP-WX5503.

Lens shift area (at ceiling mount position)

Left 0.046 screens

Right 0.046 screens

1.565 screens

Down 0.565 screens

1.092 screens

360° Projection

The 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™ HDMI®1 HDMI®2

Document Camera

PC

PbyP and PinP *8

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

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

Quick Start *9

When STAND BY MODE is set to QUICK START, projection starts within 1 second*10 of turning on. You can use to start presentation and class quickly.

*9 The standby power consumption of the mode is higher than the other modes.
*10 It may take approx. 8 seconds depending on duration time of standby and an input signal.

Brightness 100%

Only 1 second !

50%

Laser Projector Lamp Projector

Power ON Time

This is for illustrative purposes only.

Auto Power ON *11

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

Standby ON

Signal input

*11 Supported input terminals are COMPUTER IN 1, HDMI® 2 and VIDEO. This function is unavailable when STANDBY MODE is set to NETWORK (WOL) or SAVING. This function may work unintentionally by connected external device.

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.
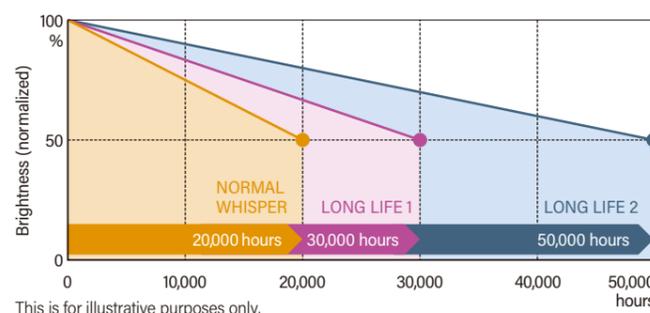
*1 For laser light source. The value is an estimate and may vary depending on the use environment or use condition.

Screen

LCD(Red, Green, Blue)

Blue Laser (Light source)

Projection lens

B

G

R

Phosphor wheel

LIGHT OUTPUT	Brightness*2		Light source life*3	Noise*4	
	MP-WU5603 MP-WX5603	MP-WU5503 MP-WX5503		MP-WU5603 MP-WX5603	MP-WU5503 MP-WX5503
NOMAL	6,000 lm	5,000 lm	20,000 hours		
LONG LIFE 1	4,500 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

100 %

Brightness (normalized)

50

0

NORMAL WHISPER LONG LIFE 1 LONG LIFE 2

20,000 hours 30,000 hours 50,000 hours

0 10,000 20,000 30,000 40,000 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.
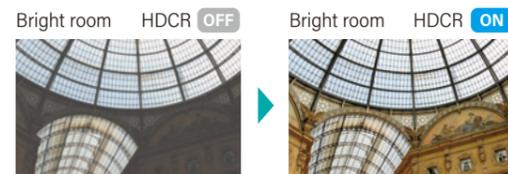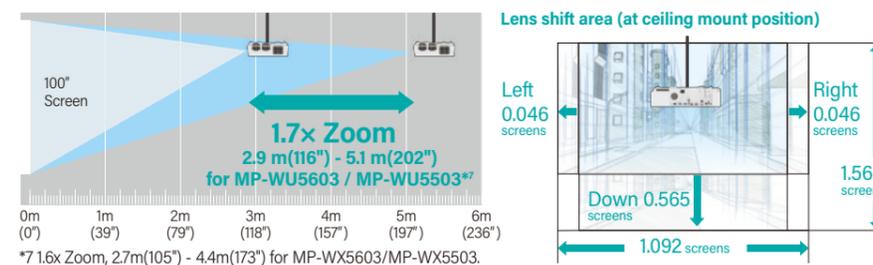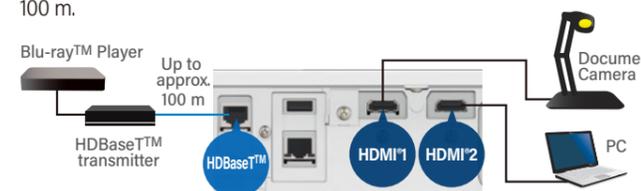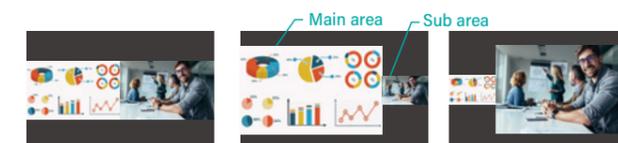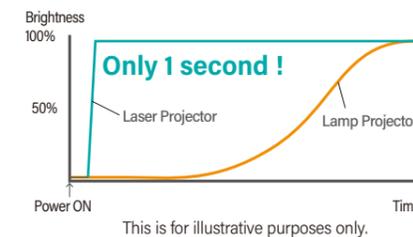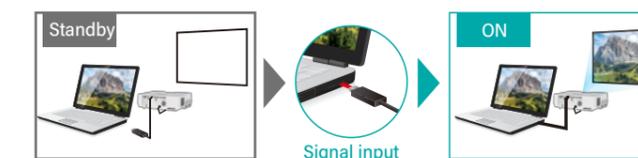
High Image Quality

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

Other Functions

• Easy Schedule Setting • DICOM® Simulation Mode*12 • 16W Internal Speaker • Smart Device Control & Monitoring*13 • Moderator Control Mode*14 • PIN lock • Key lock • Projector cloning setup application*15

*12 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. *13 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 *14 To use Smart Device Control, an exclusive application, "LiveViewer" is required. Visit to the maxell projector web site. http://biz.maxell.com/en This function is for Windows users only. *15 To use ,an exclusive application, "Projector Data Cloning Application" is required. Visit to the maxell projector web site. http://biz.maxell.com/en