Specifications

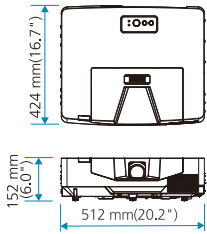| Model name		MP-F5002
Display system		3LCD
Display device	Size of effective display area	0.64″, aspect ratio 16:10
	Number of pixels	2,304,000 pixels H : 1,920 × V : 1,200 (WUXGA)
Lens	Zoom	Manual (1.6×)
	Focus	Manual
Light source		Laser diode
Screen size		30 ~ 300 inch
Light output (Brightness)		5,000 lm *1
Contrast ratio (full white / full black)		1,500,000 : 1 *1
Speaker		16 W × 1 mono
Displayable scanning frequency	Horizontal	15 ~ 106 kHz
	Vertical	50 ~ 120 Hz
Display resolution	Computer	VGA, SVGA, XGA, WXGA, SXGA, WXGA+, WXGA++, WSXGA+, UXGA, Full HD, WUXGA*2, Mac 16″
	Video	NTSC, NTSC4.43, PAL, SECAM, PAL-M, PAL-N, PAL(60Hz), 480i@60, 480p@60, 576i@50, 576p@50, 720p@50/60, 1080i@50/60, 1080p@50/60
Terminals	HDMI IN	HDMI connector × 3 (HDMI IN 2 supports MHL input)
	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
	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
	USB-A	USB type A × 2 (PC-LESS Presentation or Wireless LAN (option))
	USB-B	USB type B × 1 (USB mouse control)
Network	Wired	100BASE-TX / 10BASE-T
	Wireless (option*3)	IEEE 802.11a/b/g/n/ac
Operating temperature		0 - 40 °C *4 (The brightness of light source may be reduced automatically over 35 °C.)
Operating humidity		10 - 80%RH (non-condensing)
Power requirements		AC 100 - 120 V (50/60Hz), 3.8 A AC 220 - 240 V (50/60Hz), 1.9 A
Power consumption		AC 100 - 120 V : 370 W AC 220 - 240 V : 360 W
Standby mode power consumption		Less than 0.5 W *5
Standard outside dimensions (W × H × D)		512 mm × 152 mm × 424 mm (20.2″ × 6.0″ × 16.7″) (Including protrusions) 506 mm × 136 mm × 424 mm (19.9″ × 5.4″ × 16.7″) (Excluding protrusions)
Weight		Approx. 7.5 kg (16.5 lbs.)
Accessories		Remote control with two AA batteries, Power cord, Computer cable, User's manual, Security label, Lens cover, Adapter cover, HDMI cable holder, Cable tie, Hook metal, Screw, Ferrite core
Optional parts	Air filter	UX43251
	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)
	USB wireless adapter	USB-WL-5G *6

*1: When PICTURE MODE is set to DYNAMIC, and LIGHT OUTPUT is set to NORMAL 100 %. *2: For MP-F5002 only. WUXGA (60 Hz) Reduced Blanking.
*3: Optional wireless adapter is needed. *4: 0 - 40 °C at altitude from 0 m to 1,600 m. 0-35 °C at altitude from 1,600 m to 3,048 m. *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-WL-5G varies depending on the country and the region.

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-F5002   16 : 10 screen

Screen type	Screen size				Projection distance				Screen height			
	H		V		a(min.)		a(max.)		b		c	
(inch)	m	inch	m	inch	m	inch	m	inch	cm	inch	cm	inch
60	1.3	51	0.8	32	1.5	60	2.6	101	70	28	10	4
80	1.7	68	1.1	42	2.1	82	3.5	137	94	37	14	5
100	2.2	85	1.3	53	2.6	104	4.4	173	117	46	17	7
120	2.6	102	1.6	64	3.2	127	5.3	209	141	55	21	8
150	3.2	127	2.0	79	4.1	160	6.7	263	176	69	26	10
200	4.3	170	2.7	106	5.5	216	9.0	353	234	92	35	14

Terminals

(8) (3) (12)   (1)   (2) (10) (4)   (5)   (6)
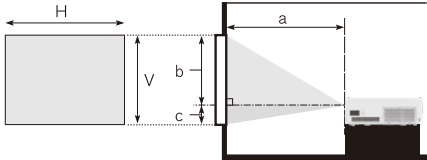
(11)(9)   (14)(13)   (7)

(1)HDMI IN 1 (2)HDMI IN 2 / MHL (3)HDMI IN 3 (4)COMPUTER IN 1
(5)COMPUTER IN 2 / MONITOR OUT (6)CONTROL (7)VIDEO IN (8)AUDIO IN 1 (9)AUDIO IN 2
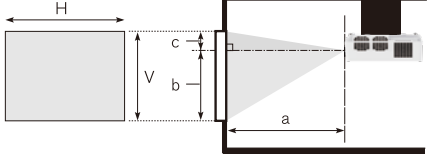(10)AUDIO IN 3 (11)AUDIO OUT (12)USB-A (13)USB-B (14)LAN

Dimensions

424 mm(16.7″)
152 mm
512 mm(20.2″)

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.

—**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
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Association for its standards publications relating to digital communications of medical information. • MHL, the MHL logo, and Mobile
High-Definition Link are trademarks or registered trademarks of MHL, LLC in the United States and other countries. • 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. • All other trademarks are the properties of their respective owners.

Laser Projector

Multifunctional projectors suitable for use in large classrooms including university
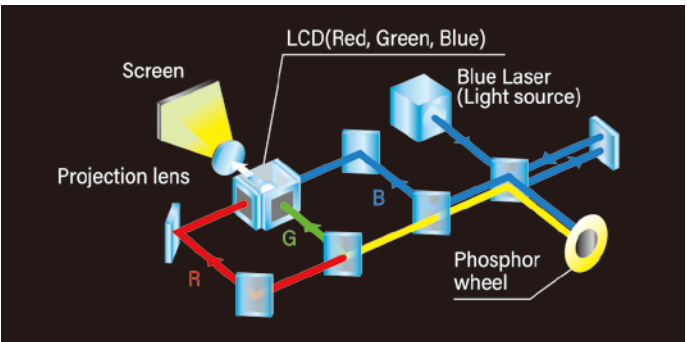
MP-F5002

3LCD

*Projected images are simulations.

HITACHI 프로젝터를 개발, 생산, 판매하였던 HITACHI Maxell이 **maxell**로 바뀌면서 브랜드도 **maxell**로 변경되었습니다.
기존 제품 서비스도 변함없이 휴스템에서 처리됩니다.

구입문의처

*Projected images are simulations.

MP-F5002 | WUXGA | 5,000 lm

LASER Light Source
3LCD

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.

*[1] For laser light source. The value is an estimate and may vary depending on the use environment or use condition.
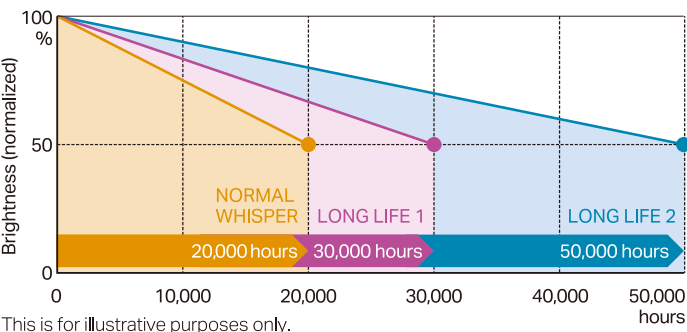
LCD(Red, Green, Blue)
Screen
Blue Laser (Light source)
Projection lens
B
G
R
Phosphor wheel

LIGHT OUTPUT	Brightness*[2] MP-F5002	Light source life*[3]	Noise*[4]
NORMAL	5,000 lm	20,000 hours	34 dB
LONG LIFE 1	3,750 lm	30,000 hours	
LONG LIFE 2	2,500 lm	50,000 hours	
WHISPER	2,500 lm	20,000 hours	28 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)
100 %
50
0
0   10,000   20,000   30,000   40,000   50,000 hours

NORMAL WHISPER | LONG LIFE 1 | LONG LIFE 2
20,000 hours | 30,000 hours | 50,000 hours

This is for illustrative purposes only.

High Image Quality

Wide Range of Color Reproduction

The color reproduction range is wide compared to lamp light projectors*[5] and projects brilliantly colored images.
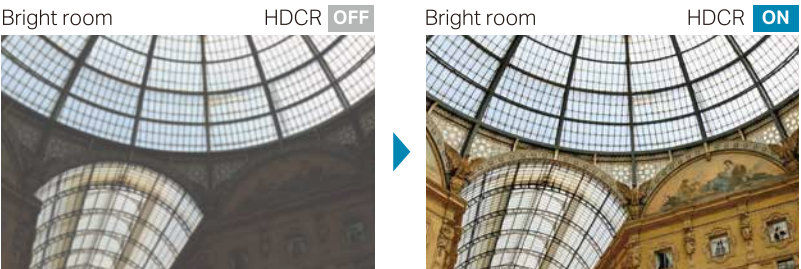
*[5] Comparison with Maxell 5,000-lumen lamp light source LCD projectors.

* The projected image is simulations.

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.

Bright room   HDCR OFF
Bright room   HDCR ON

* The projected images and comparison photos are simulations.
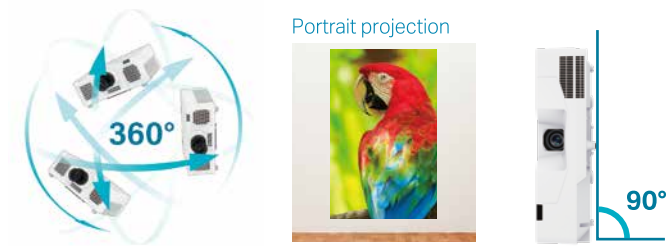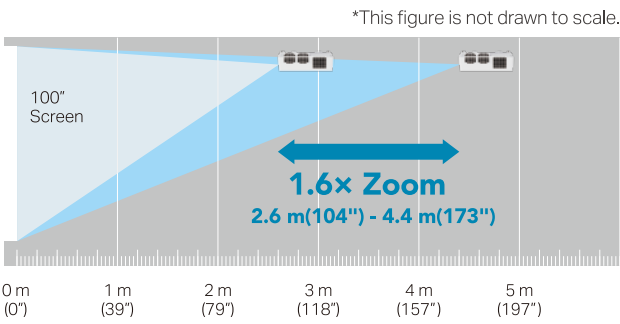
Installability

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).
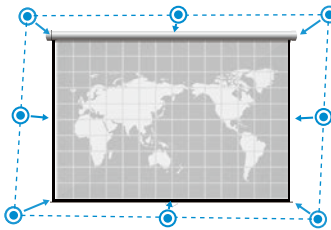
360°
Portrait projection
90°

1.6× Zoom Lens

Featuring a powerful 1.6× manual zoom lens, the projectors allow for a greater range of installation possibilities.

*This figure is not drawn to scale.

100" Screen
1.6× Zoom
2.6 m(104") - 4.4 m(173")

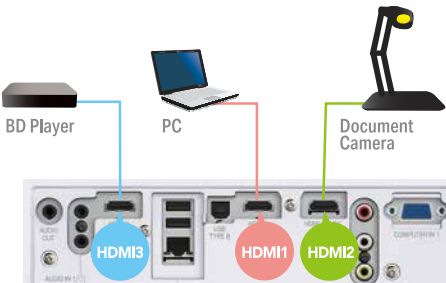0 m (0") 1 m (39") 2 m (79") 3 m (118") 4 m (157") 5 m (197")

Perfect Fit

Equipped with 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 quickly correct the distorted image such as pincushion or barrel.
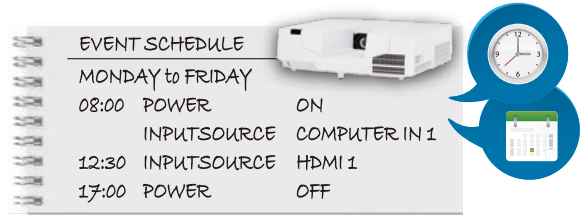
3 HDMI® inputs

Equipped with 3 HDMI input terminals for the current widely-used interface.

BD Player   PC   Document Camera
HDMI3   HDMI1   HDMI2

Convenient Functions

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

* This function requires a coin battery for the internal clock or connecting to an SNTP server on network.
* When STANDBY MODE is set to NETWORK(WOL) or SAVING, this function (ex. POWER ON) at standby mode will not be operated.

Wireless Dual Band Support (Option)

Provides a stable wireless network environment by supporting wireless dual band (2.4 GHz / 5 GHz).

* Dual Band may be restricted in some countries and regions.

2.4 GHz
5 GHz

Other Functions	• Quick Start • DICOM® Simulation Mode*[7] • 16W Internal Speaker • MHL connectivity • Smart Device Control & Monitoring • Moderator Control Mode • PIN lock · Key lock

*[7] 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.