



# PL1520i/ PL1320W/ PL1220

Product Brief\_v1.0





# **LIGHT UP THE SPACE WITH LASER**

# Contents



- Product segment
- Value proposition
- Key selling points
- Product views
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### Superior laser lighting, true maintenance-free

#### Superior Laser Lighting

- High efficiency
- Rich and accurate color
- Long-lasting brightness consistency
- Up to 30,000 hours lifetime
- Mercury-free

#### Lifelike Image

- 4,000 ANSI lumens
- FHD/ WXGA/ XGA resolution\*
- 2,000,000:1 contrast ratio
- 4K HDR support
- HDMI 3D/ DLP® 3D

#### Installation Flexibility

- 360-degree projection
- Portrait mode
- 1.6X zoom
- Vertical lens shift\*
- Auto, H/V keystone
- 4 corner correction

#### User-friendly design

- IP6X
- 24/7 operation
- Wireless Projection\*
- 10W x 1 speakers
- Instant On-Off



# Key Selling Points

## Superior Laser Lighting

- High efficiency
- Rich and accurate color
- Long-lasting brightness consistency
- Up to 30,000 hours lifetime
- Mercury-free

## Lifelike Image

- 4,000 ANSI lumens
- FHD/ WXGA/ XGA resolution\*
- 2,000,000:1 contrast ratio
- 4K support
- DLP® 3D; HDMI/Blu-ray 1080p 3D

## Installation Flexibility

- 360-degree projection
- Portrait mode
- 1.3X zoom
- Lens shift\*
- Auto, Horizontal and vertical keystone
- 4 corner correction
- AC Power On
- Auto Shutdown
- I/O power on

## User-friendly design

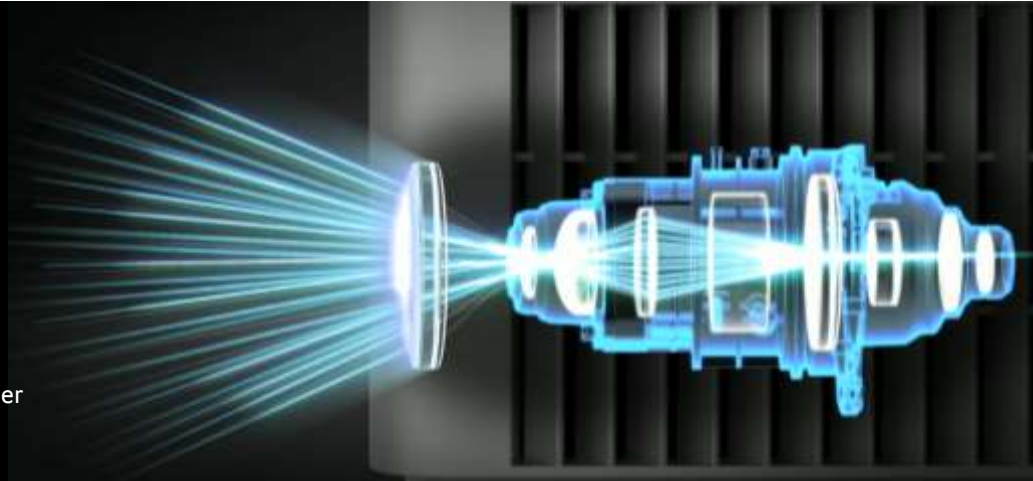
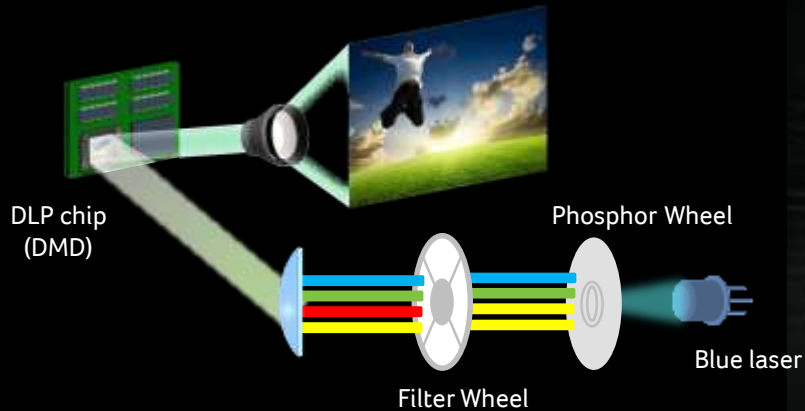
- IP6X
- 24/7 operation
- Wireless Projection\*
- 10W x 1 speakers
- Instant on/off
- DICOM Simulation

# WHY LASER?

# High efficiency

## Superior Energy-Efficient

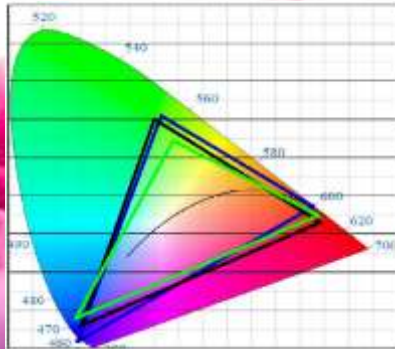
Laser phosphor illumination uses only a blue laser diode, combining phosphor and filter wheel, to generate primary colors (RGB). These colors are then directed to DLP chip, go through lens and create images on screen. Unlike lamp-based projector that blocks most of the light and leave only RGB, laser creates only the exact color needed, thus using less power and is much brighter. 30% of power are saved compared to lamp-based projector to generate same level of brightness.



# Rich and accurate color

## Exactly the Right Color

Laser illumination achieves not only high brightness, but also high image quality. Lasers is able to create any wavelength of light, so a wider color gamut and better color accuracy is possible without sacrificing brightness. Enjoy rich and high-accurate color brought by laser light source.



Laser

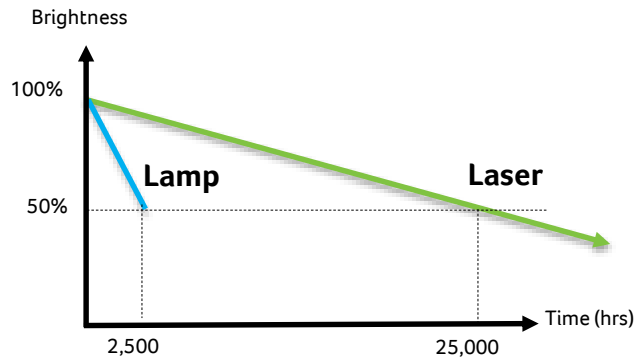
Lamp



# Long-lasting brightness consistency

## Reliable for Years of Use

The efficiency of laser provides 8X less brightness decay than a lamp-based projector. It means if a Laser projector is used for 2,500 hours, lamp-based projector brightness might drop by 50% while laser brightness decrease less than 7%. Laser lighting provides the reliability for years of use.



# Up to 30,000 hours lifetime

## Low Maintenance Cost

Use this projector as often as you like and for as long as you like; with a 30,000-hour lifetime, you won't be needing a replacement any time soon. 30,000-hour means no lamp replacement for about 10 years if the projector is used 8 hours every day. The maintenance-free feature makes laser projector ideal for high-use settings like classroom or boardroom.



# Environmentally mercury-free

## Let Your Ideas and The Planet Both Blossom

Laser is mercury-free light source. The absence of hazardous mercury or halogen gases means safer use and more green. By eliminating the potential of mercury lamp disposal, we create less waste and less burden to earth.



# LIFELIKE IMAGE

# 4,000 lumens brightness

## Intense Level of Brightness for Medium Venues

Powered by laser illumination system that produces ultra-high brightness, PL series delivers crystal-clear projection in medium meeting rooms, events, exhibition or trade shows, or any medium venues. The image can be crisp and vivid even in bright environments.



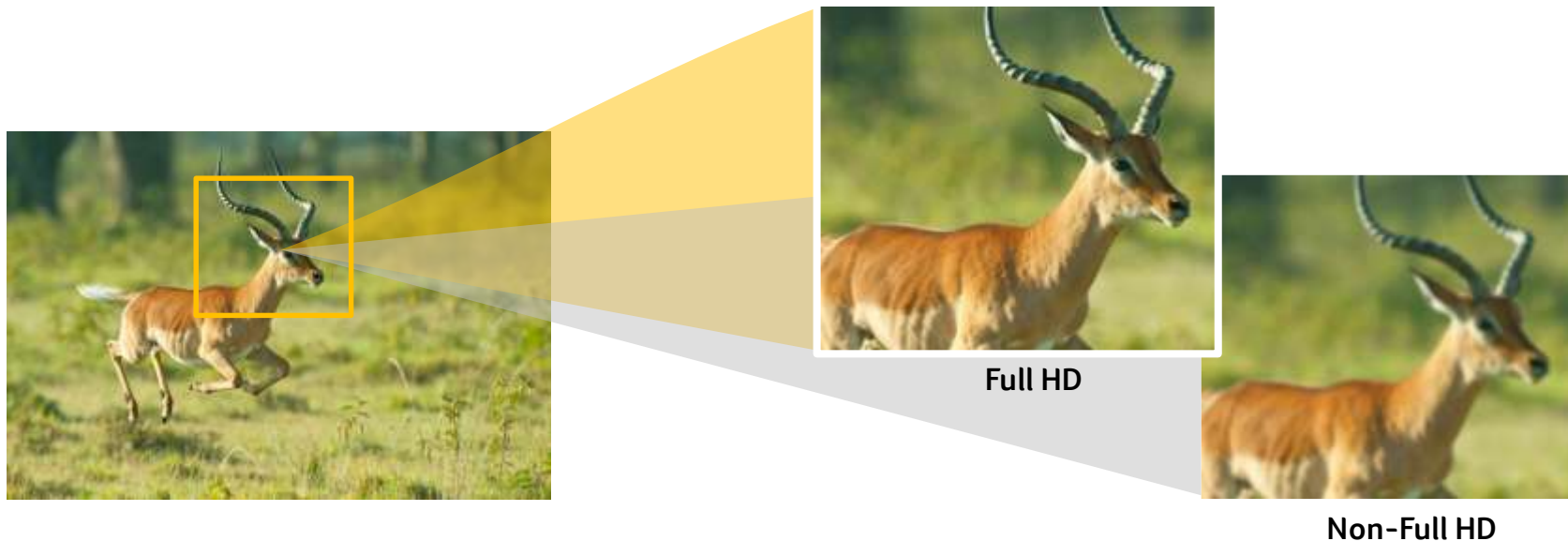
# Full HD1080p resolution\*

## Bright, Clear Images

1080p (1920x1080) is a set of HDTV high-definition video modes. With the superb clarity of available 1080p Full HD, you'll enjoy exceptional details no matter on Blu-ray movies, video games or business presentation.



Resolution





## 2,000,000:1 contrast ratio

### Expressive Levels of Contrast

The contrast ratio is up to a whopping 2,000,000:1. It delivers the vivid image that the black is extremely black and white is brilliant white. Enjoy all amazing details even the dark scene.



Low contrast ratio



2,000,000:1 contrast ratio

## 4K HDR support\*

The PL1 series support displaying 4K HDR content at 1080p with HDR-like interpretation. With 4K content increasingly available through the rise of streaming services this means customers never miss out on new content.





# HDMI 3D with 144Hz 24p

## More Real As Never Experienced



Pair with 3D glasses & device that supports 120Hz output, movies will gain depth and feeling that deliver stereoscopic visuals!



3D Blu-ray™ movie ... and much more !



HDMI connection



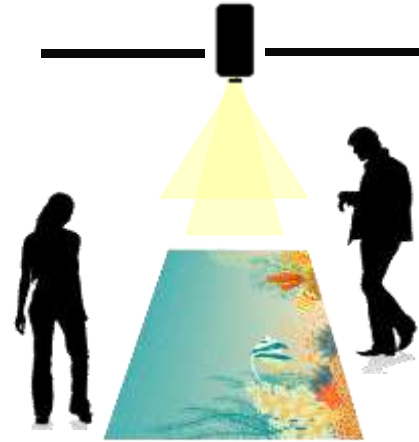
# INSTALLATION FLEXIBILITY

# 360-degree projection

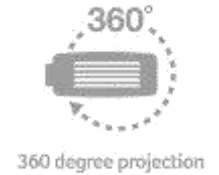
## 360-Degrees of Possibility

PL1 projector can be rotated 360 degrees at any up-and-down angle for flexible installation. It enables special projection applied in exhibition, showroom or public spaces that requires projector not only supporting one projection angle.

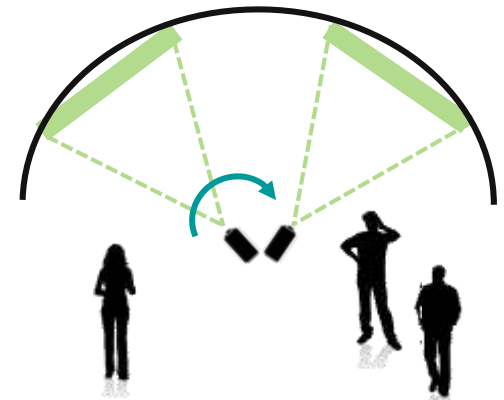
- Project to the ceiling
- Project to the floor for interactive activity



Use vertical projection to create an interactive floor.



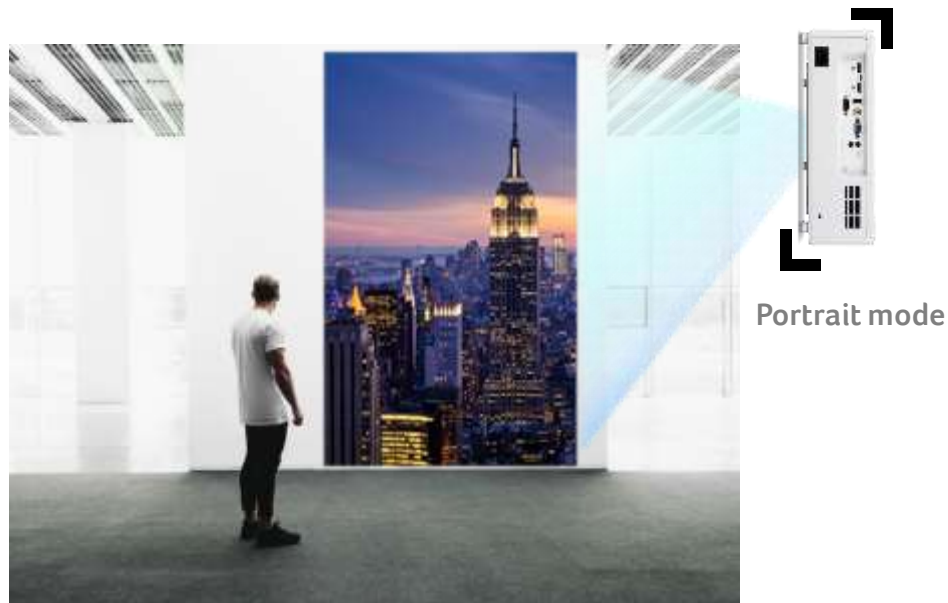
Utilize the flexibility of projection in any angle to create surround projection.



# Portrait mode

## Flexible Installation

Portrait mode allows projector to be installed with one side of projector facing down. This is especially useful when landscape is not suitable in some museum exhibition, showroom, shopping mall or events.



# Installation Flexibility



Zoom Ratio

## 1.3X Zoom

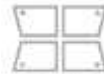
1.3X zoom ratio benefits user on positioning projector in available space without redecorating meeting room or living room.



KEYSTONE CORRECTION

## Auto Keystone Correction & 4 Corner Correction

Auto keystone Correction automatically corrects vertical distortions, so the audience sees a rectangular image rather than one with a wider top/bottom, even if the projector is placed above or below the screen. With the 4-Corner keystone correction feature, PL is capable of correcting horizontal and vertical distortions easily by simply adjusting the positions of the 4 corners of the projected image.



4 CORNER CORRECTION



Vertical Lens Shift

## Vertical Lens Shift\*

Vertical lens shift enables vertical lens adjustment by using control wheels on the housing. By turning the control wheels, the image can be shifted in its original format and size without any distortion.



# Installation Flexibility



AC power on

## AC Power On

With the AC Power On function, the projector can automatically be turned on and AC power is delivered to the projector.



## Auto Shutdown

The projector automatically performs a safety shutdown if it does not receive input for a certain time. The shutdown interval can be changed via the OSD(On Screen Display).



I/O Power On

## I/O Power On

With the I/O Power On function, the projector can automatically be turned on as soon as the VGA/HDMI cable is plugged into the projector.



Not receiving input for a certain time



VGA/HDMI cable is plugged in



# USER FRIENDLY DESIGN

# IP6X Rated



## Highest degree of Protection

IP6X is one kind of **Ingress Protection Rating** published by the IEC (International Electrotechnical Commission). It is the highest degree of protection against solid foreign objects. PL series is equipped with **sealed optical engine** and has been tested and passed IP6X criteria. This exceptional dust-resistance ability ensures PL deliver reliable performance even in challenging environment, for example, high ceiling that is difficult to obtain regular cleaning.

IP Level	Effective against	Example
0	—	No protection against solid foreign objects
1	>50 mm	Any large surface of the body
2	>12.5 mm	Fingers or similar objects
3	>2.5 mm	Tools/ thick wires
4	>1 mm	Wires/ insects
5	Dust protected	Dust is not entirely prevented, but the quantity should not interfere with operation
6	Dust tight	No ingress of dust. Complete protection against solid foreign objects





## 24/7 operation



24/7 Operation

### Non-stop Projection

PL1 series supports 24 hours-7 days of continuous projection when prolonged periods of use is required. This is especially useful for public display or museum exhibition.



Acer PL1 Series is designed for long-term operation.



# Wireless Projection\*

## Mirroring Display

Mirroring Display<sup>1</sup> compatible devices<sup>2,3</sup> allow direct screen projection. You can show exactly what you want with no limitation.



Mirroring a fun video or travel photos with friends and family without having to crowd around a small display anymore.



\*Standard accessory WirelessProjection-Kit UWA5 is for PL1520i only.

(1) Support wireless screen mirroring for iOS/Android/Win10/MacOS.

(2) Support to iOS 12 /Android 5.0 or above with screen mirroring compliant.

(3) Support to Win 10 with latest windows update.

# DICOM Simulation Mode

## Professional Medical Images Display

PL1 projector features DICOM (Digital Imaging and Communications in Medicine) simulation mode that allows projector to simulate medical images which is DICOM Part 14 compliant. It is ideal for viewing grayscale medical images, such as X-rays, and CAT scans. DICOM offers medical educators the ability to display medical images in larger conference rooms with exceptional clarity and gray levels.



Non-DICOM mode



DICOM mode

# Built-in speaker



Built-in Speaker

## The power of sound

Built in 10W x 1 speakers provide powerful sound, eliminating the need for external speakers. The audio ensures movies come to life, songs have more depth, and games are more engaging.

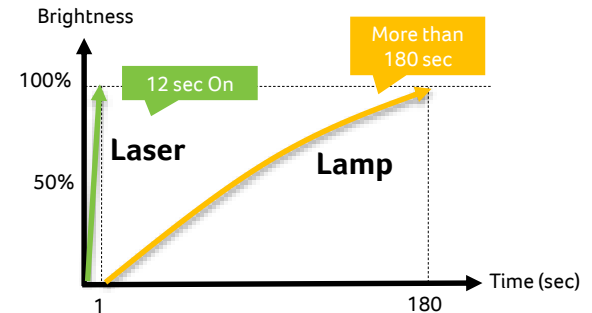


# Instant On-Off

## No More Waiting



Unlike conventional lamp-based projector, device warm-up or cooling is no longer needed for a laser projector. PL1 series provides fast on/off functionality within 12 seconds, saving you valuable time.







## Smart Savings

EcoProjection is an earth-friendly solution that saves consumption power and lamp replacement costs.



### **Extend lamp life up to 30,000 hrs**

ECO technology enables lamp power control and dims lamp down by 30%. The lamp life will be extended to up to 30,000 hours.



### **Low noise level to 29 dBA**

# PRODUCT VIEWS & SPECIFICATION

## Product Views

Acer PL1520i





# Product Views

## Acer PL1520i



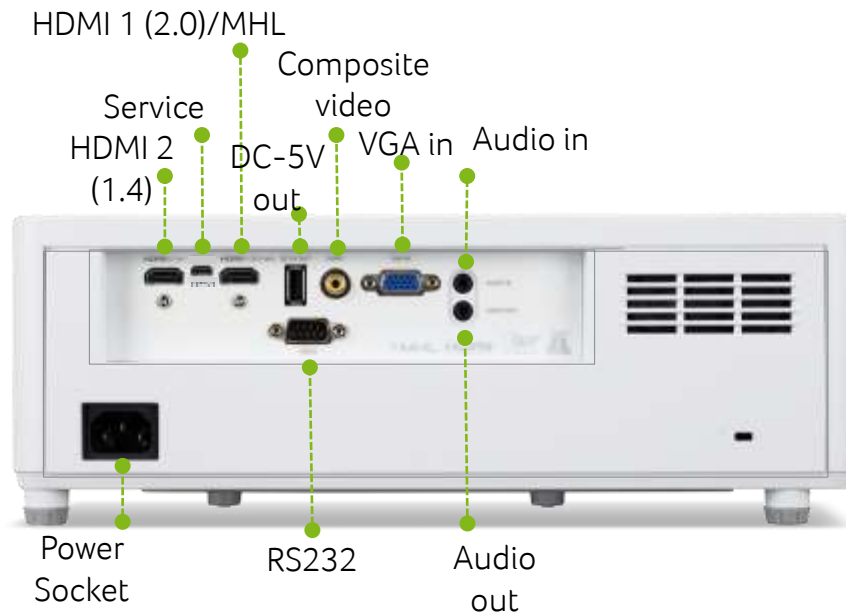
## Product Views

Acer PL1220/  
PL1320W



# Product Views

Acer PL1220/  
PL1320W



# Specifications

Model name	PL1520i	PL1320W	PL1220
Display panel	0.47" TRP DMD	0.65" DMD	0.55" DMD
Resolution	1080p (1,920 x 1,080)	WXGA(1280 x 800)	XGA(1024 x 800)
	Maximum 4K2K (3,840 x 2,160)	Maximum 4K2K (3,840 x 2,160)	Maximum 4K2K (3,840 x 2,160)
Brightness	4,000 ANSI Lumens (Standard), 3,200 ANSI Lumens (ECO), (Compliant with ISO 21118 standard)	4,000 ANSI Lumens (Standard), 3,200 ANSI Lumens (ECO), (Compliant with ISO 21118 standard)	4,000 ANSI Lumens (Standard), 3,200 ANSI Lumens (ECO), (Compliant with ISO 21118 standard)
Aspect ratio	16:9 (Native), 4:3 (Supported)	16:10 (Native), 4:3/16:9 (Supported)	4:3 (Native), 16:9 (Supported)
Throw ratio	1.21 ~ 1.59:1 (75"@2m)	1.19 ~ 1.54:1 (78"@2m)	1.49 ~ 1.93:1 (66"@2m)
Zoom ratio	1.3X	1.3X	1.3X
Contrast ratio	20,000:1 Dynamic Black	20,000:1 Dynamic Black	20,000:1 Dynamic Black
Lamp life	20,000 Hours (Standard) 30,000 Hours (ECO)	20,000 Hours (Standard) 30,000 Hours (ECO)	20,000 Hours (Standard) 30,000 Hours (ECO)
Projection lens	F = 2.5~2.93 , f = 15.98mm~21.42mm , Manual Zoom & Focus	F = 2.5~2.78 , f = 16.91mm~21.60mm , Manual Focus	F = 2.5~2.78 , f = 16.91mm~21.60mm , Manual Focus
Keystone correction	+/-30° (Vertical, Manual & Auto), +/-30° (Horizontal, Manual), 4-Corner adjustment	+/-30° (Vertical, Manual & Auto), +/-30° (Horizontal, Manual), 4-Corner adjustment	+/-30° (Vertical, Manual & Auto), +/-30° (Horizontal, Manual), 4-Corner adjustment
Noise level	29 dBA (ECO)	29 dBA (ECO)	29 dBA (ECO)
Input interface	Analog RGB/Component Video (D-sub) x 1 Composite Video (RCA) x 1 HDMI (1.4a 3D supported, HDCP) x 1 HDMI (2.0) /MHL x 1 PC Audio (Stereo mini jack) x 1	Analog RGB/Component Video (D-sub) x 1; Composite Video (RCA) x 1; HDMI (1.4a 3D supported, HDCP) x 1; HDMI (2.0)/ MHL x 1; PC Audio (Stereo mini jack) x 1	Analog RGB/Component Video (D-sub) x 1; Composite Video (RCA) x 1; HDMI (1.4a 3D supported, HDCP) x 1; HDMI (2.0)/MHL x 1; PC Audio (Stereo mini jack) x 1
Output interface	DC Out (5V/1.5A, USB Type A) x 1, PC Audio (Stereo mini jack) x 1	DC Out (5V/1.5A, USB Type A) x 1; PC Audio (Stereo mini jack) x 1	DC Out (5V/1.5A, USB Type A) x 1, PC Audio (Stereo mini jack) x 1
Control interface	RS232 (D-sub) x 1 USB (Micro-B) x 1	RS232 (D-sub) x 1; USB (Micro-B) x 1	RS232 (D-sub) x 1; USB (Micro-B) x 1;
Network interface	USB (Type A) x 1, For Wireless Projection-Kit (UWA5)	NA	NA
Dimension	337 x 265x 120mm (13.3" x 10.4" x 4.7")	337 x 265x 120mm (13.3" x 10.4" x 4.7")	337 x 265x 120mm (13.3" x 10.4" x 4.7")
Weight	4.5 kg(9.9 lbs)	4.5 kg(9.9 lbs)	4.5 kg(9.9 lbs)

## Optional Accessory



3D Glasses  
E4W



Ceiling Mount  
CM-01S



Ceiling mount  
CM-02S

## Standard Accessory



WirelessProjection-Kit  
UWA5\*

**THANK YOU**