







# BRIGHT 1080P PROJECTOR EH416



## POWERFUL AND VERSATILE INSTALLATION PROJECTION



-  **4200 lumens and 20000:1 contrast ratio produces a sharp luminous image**
-  **Advanced Optical Lens features a 1.6x ZOOM and Vertical Lens Shift**
-  **Extensive array of connectivity options featuring dual HDMI and dual audio-in**
-  **sRGB color profile enables vibrant and highly accurate colors via Rec709 HDTV spec**
-  **Compensate for loss of brightness with Wall Color Adjustment**
-  **Hide jaggies and soft edges with Edge Mask**



The Optoma EH416 is the ideal 1080p projector for corporate, house of worship and higher education applications. The EH416 is loaded with a host of features including 4200 lumens, advanced optical lens, 1920 x 1080 resolution, a massive 1.6x Zoom, sRGB support, and 20000:1 contrast ratio. Whether you are deliver quarter earnings, a sales presentation or daily science lesson, the EH416 impresses with an incredibly bright image, vivid colors, and deep blacks.

sRGB color profile enables rich accurate color, based on the primaries of Rec.709 HDTV specification when used with a PC, Mac, or any sRGB compatible source. Wall Color Adjustment is designed to compensate for the loss of brightness when projecting on non-white projection surfaces in various environments. This feature is extremely useful in classrooms, conference rooms, training rooms or anywhere the presenter may be using a colored wall, blackboard, chalkboard, or whiteboard for the projection surface.

The EH416 features a new cutting edge optical lens, 1.6x Zoom, and Vertical Lens Shift to ease installations. Edge Mask eliminates soft edges and jaggies on border of the projection image to produce a smooth, consistent image. The included carrying bag makes the EH416 perfect for meetings in the field, presentations in the conference room or trainings in the classroom.

## CONNECTIVITY (May require optional accessories)



Computers



Smart Phones



Tablets



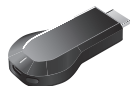
3D Blu-ray/DVD Players



Camcorders



Apple TV®



Chromecast™

## BRIGHT 1080P PROJECTOR - EH416

### OPTICAL/TECHNICAL SPECIFICATIONS

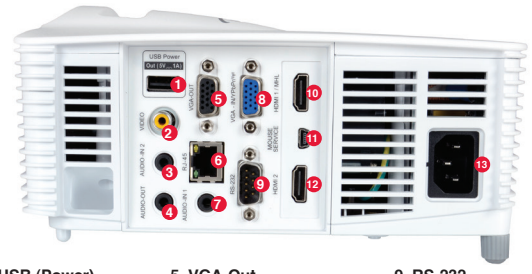
Display Technology	Single 0.65" DC3 DMD DLP®Technology by Texas Instruments™
Native Resolution	1920x1080 1080p FullHD
Maximum Resolution	1920x1080 1080p FullHD
Brightness	4200 Lumens
Contrast Ratio	20000:1
Displayable Colors	1.07 Billion
Lamp Life and Type*	6500/5000/5000/3000 – ECO+/Dynamic/ECO/ Bright
Projection Method	Front, rear, ceiling mount, table top
Keystone Correction	±40° Vertical
Vertical Lens Shift	17%
Uniformity	75%
Offset	115%±5%
Aspect Ratio	16:9 (native), auto, 16:10, 4:3, LBX
Throw Ratio	1.4 - 2.24
Projection Distance	4.26' - 30.8' (1.3 - 9.4 m)
Image Size	26.21" - 303"
Projection Lens	F=2.5~ 3.26, f=20.91 ~ 32.62 mm manual focus
Optical Zoom	1.6x
Digital Zoom	0.8 - 2.0
Audio	10W Mono Speaker
Noise Level	29dB
Remote Control	Full Function Remote with Laser Pointer
Operating Temperature	41–104°F (5–40°C), 85% max humidity
Power Supply	AC input 100–240V, 50–60Hz, auto-switching
Power Consumption	321W Bright (Typical), 353W Bright (Max), 257W ECO (Typical), 283W ECO (MAX)
High Altitude	Operating Temp @ Sea Level to 10000 feet = 23C (max); must manually switch to high altitude mode @ 5000 feet & above (using OSD)

### COMPATIBILITY SPECIFICATIONS

Computer Compatibility	WUXGA, UXGA, WXGA, SXGA+, SXGA, XGA, SVGA, VGA resized, VESA, PC and Mac
Video Compatibility	NTSC, PAL, SECAM, SDTV (480i), EDTV (480p), HDTV (720p, 1080i/p)
3D Compatibility†	Supports all HDMI 1.4a mandatory 3D formats (Frame pack, side-by-side, top-bottom) and up converts frame rate from 60Hz to 120Hz or 24Hz to 144Hz (i.e. 60 or 72 frames per eye). 3D glasses are needed and are sold separately. Refer to user manual for details.
Vertical Scan Rate	24–85Hz, 120Hz
Horizontal Scan Rate	15.375–91.146KHz
User Controls	Complete on-screen menu adjustment in 26 languages
I/O Connection Ports	2x HDMI 1.4v with MHL, VGA-In, VGA-Out, Composite Video, 2xAudio-In (3.5mm), Audio-Out (3.5mm), RJ-45, USB Power, USB-B Mini (service), RS232C
Loop Through (Audio)	Yes

### PHYSICAL SPECIFICATIONS

Security	Kensington® lock, security bar and keypad lock
Weight	6.75 lbs
Dimensions (W x H x D)	12.36" x 4.48" x 8.81"



- 1. USB (Power)
- 2. Video
- 3. Audio-in 2
- 4. Audio Out
- 5. VGA-Out
- 6. RJ-45
- 7. Audio-In 1
- 8. VGA-In/YpPr
- 9. RS-232
- 10. HDMI 1/ MHL
- 11. Mouse Service
- 12. HDMI 2



#### Warranty

2-Year parts and labor limited warranty on the projector, 90 days lamp warranty

#### What's in the Box (Standard Accessories)

EH416 projector, AC power cord, VGA to VGA cable, remote control, carrying case, batteries for remote, multilingual CD-ROM user's manual, quick start card, and warranty card

#### Optional Accessories

Universal ceiling mount, DLP®Link™ 3D glasses, Wireless HDMI system, Lamp, Remote

#### Accessory Part Numbers

Lamp: BL-FU260C  
 Remote: BR5053C  
 DLP® Link™ 3D glasses: ZD302  
 Wireless HDMI system: WHD200  
 Universal ceiling mount: OCM818B-RU  
 Universal ceiling mount: BM-5001U  
 Universal ceiling mount (with extensional pole): OCM815B

UPC 796435 44 002 2

\*Lamp life is dependent on many factors, including lamp mode, display mode, usage, environmental conditions and more. Lamp brightness can decrease over time.

†3D content can be viewed with either RF or DLP Link active shutter glasses when projector is used with a compatible 3D player. RF 3D glasses require the use of the RF 3D emitter. Please visit [www.OptomaUSA.com](http://www.OptomaUSA.com) for more information

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