

# Bright Short Throw 1080p Projection

## EH412ST



### Exceptional brightness and lamp life



- Short throw 0.5:1 projection lens
- Incredible 4,000 lumens and 50,000:1 contrast ratio
- 4K UHD and 1080p HDR (HDMI 2.0) input compatible
- Accurate color with sRGB & REC.709 color profile
- Powerful 10 watt speaker
- Minimal maintenance with 15,000 hour lamp life



1080P



Full 3D



Experience massive, 1080p images from feet away with the 4,000 lumens, short throw Optoma EH412ST. Support for 4K HDR input sources, sRGB and REC.709 color profiles with a 50,000:1 contrast ratio ensures sharp and vivid images, ideal for classrooms, meeting and training rooms.

Keystone correction and RS232 control deliver flexible installation options. Powerful 10-watt audio fills a room with loud and crisp audio to further enhance media and presentations.

Robust inputs include HDMI 2.0 and VGA for connectivity to a wide range of devices. A 15,000-hour lamp life enables many years of use with minimal maintenance.

### CONNECTIVITY (May require optional accessories)



Computers



Smart Phones



Tablets



3D Blu-ray/DVD Players



Camcorders



Apple TV®



Chromecast™

## Bright Short Throw 1080p Projection - EH412ST

### OPTICAL/TECHNICAL SPECIFICATIONS

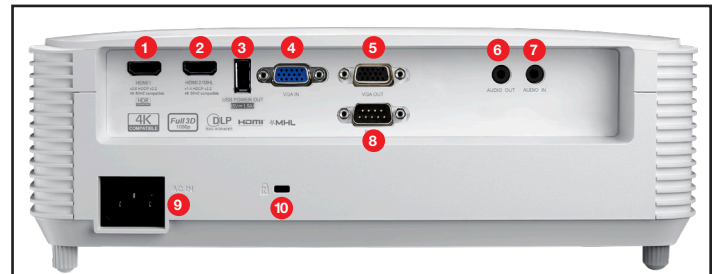
<b>Display Technology</b>	Texas Instruments 0.65" 1080p DMD
<b>Color Wheel</b>	6 Segment; RYGCWB
<b>Native Resolution</b>	1080p (1920 x 1080)
<b>Maximum Resolution</b>	HDMI 2.0: 4K UHD (3840 x 2160) HDMI 1.4a: WUXGA (1920 x 1200)
<b>Brightness</b>	4,000 ANSI lumens
<b>Contrast Ratio</b>	50,000:1
<b>HDR (High Dynamic Range)</b>	4K UHD and 1080p HDR10 compatible (HDMI 2.0 port only) Picture Modes: Bright, Detail, Film, Standard HDR SIM (simulate HDR effect with non-HDR content)
<b>Displayable Colors</b>	1.07 billion
<b>Lamp Life and Type*</b>	4,000/10,000/15,000 (Bright/Eco/Dynamic)
<b>Light Source Type*</b>	245W lamp
<b>Projection Method</b>	front, rear, ceiling mount, table top
<b>Keystone Correction</b>	±40 degree (vertical)
<b>Geometry</b>	Keystone correction
<b>Lens Shift</b>	N/A
<b>Uniformity</b>	80%
<b>Offset</b>	116% ±5%
<b>Aspect Ratio</b>	16:9(native), 4:3, LBX and auto compatible
<b>Throw Ratio</b>	0.50:1
<b>Projection Distance</b>	1.3' - 11.3'
<b>Image Size</b>	36.2"-307.8"
<b>Projection Lens</b>	F/2.8; f=7.42mm, fixed lens
<b>Optical Zoom</b>	N/A
<b>Digital Zoom</b>	0.8 - 2.0x
<b>Audio</b>	10W
<b>Noise Level</b>	26 dB
<b>Remote Control</b>	Full size remote
<b>360° and Portrait mode operation</b>	No
<b>Operating Temperature</b>	41–104°F (5–40°C), 85% max humidity
<b>Power Supply</b>	AC input 100 - 240V, 50 - 60 Hz, auto-switching
<b>Power Consumption</b>	325W max, 295W typical (Bright mode), 225W max, 205W typical (Eco Mode)
<b>High Altitude</b>	Operating temperature at sea level up to 10,000 feet = 104° F (max); Must manually switch to high altitude mode from 5,000 feet and above (using OSD menu) to maintain optimal functionality

### COMPATIBILITY SPECIFICATIONS

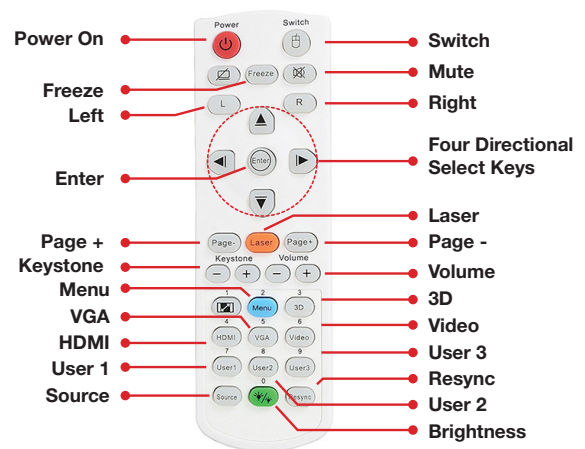
<b>Computer Compatibility</b>	VGA, SVGA, HDTV(720P), WXGA, WXGA+, SXGA, SXGA+, UXGA, HDTV(1080p), WUXGA
<b>Video Input Compatibility</b>	PAL, SECAM, 576i/p, NTSC, 480i/p, HDTV 720p/1080i/1080p
<b>3D Compatibility†</b>	Supports all HDMI 1.4a mandatory 3D formats (Frame pack, side-by-side, top-bottom) 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.
<b>Vertical Scan Rate</b>	50– 85 Hz (120Hz for 3D feature projector)
<b>Horizontal Scan Rate</b>	15.375–91.146 KHz
<b>Input Lag</b>	32ms
<b>I/O Connection Ports</b>	1x HDMI 2.0, 1x HDMI 1.4a, 1x VGA, 1x audio in, 1x USB-A, 1x VGA out, 1x audio out
<b>Control</b>	RS232

### PHYSICAL SPECIFICATIONS

<b>Security</b>	Kensington® lock port, password (OSD)
<b>Weight</b>	7.7 lbs
<b>Dimensions (W x H x D)</b>	12.4(W) x 9.5 (D) x 4.5(H)



- |                  |              |                     |
|------------------|--------------|---------------------|
| 1. HDMI 2.0      | 5. VGA-Out   | 9. AC power         |
| 2. HDMI 1.4a     | 6. Audio-Out | 10. Kensington lock |
| 3. USB-Power/out | 7. Audio-In  |                     |
| 4. VGA-In        | 8. RS232     |                     |



#### Warranty

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

#### What's in the Box

EH412ST projector, AC power cord, remote control, batteries for remote, quick start user manual

#### Accessories

Lamp (replacement): BL-FU245A  
Remote (replacement): BR-5080C  
Carrying case: BK-4028  
Universal ceiling mount: OCM815W  
Universal ceiling mount: OCM818W-RU  
Universal ceiling mount: BM-5001  
Universal Wall mount: OWM3000ST  
Mounting Plate: BM-4002p  
4K UHD Casting and mirroring adapter: UHDCast Pro  
QuickCast Pro 4K HDMI starter kit: QCP-SK-4K-HDMI (1 TX and 1 RX)  
QuickCast Pro 4K HDMI starter kit: QCP-4K-KIT (2 TX, 1 RX, 1 Cradle)

UPC 796435 44 411 2

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Light source life is dependent on brightness mode, display mode, usage, environmental conditions and more. Light source brightness can decrease over time.

Watching 3D projection while wearing 3D glasses for an extended period of time may cause headaches or fatigue. If you experience a headache, fatigue or dizziness, stop viewing the 3D projection and rest.

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