

# 1080p Laser Projector

ZH406



## Compact, lightweight and virtually maintenance free



- 4,500 ANSI lumens with 300,000:1 contrast ratio
- 4K UHD input with HDMI 2.0 (HDCP 2.2)
- HDR10 and HLG compatible
- Virtually maintenance-free laser light source with DuraCore technology, up to 30,000 hours
- Vertical lens shift with four corner correction
- 24/7, 360° and portrait mode operation



Brighten any room with razor-sharp, 4,500 lumen, 1080p projection with the remarkable Optoma ZH406. A laser light source eliminates lamp and filter replacements for up to 30,000 hours of low-cost and virtually maintenance-free operation.

Compact size, low weight and quiet operation make it perfect for classrooms, meeting rooms, board rooms and digital signage. Four corner correction, 360° and portrait mode operation enable flexible installations.

HDMI and VGA inputs provide connectivity to high-quality 4K HDR digital video or legacy analog video sources while LAN and RS-232 enable control via Crestron, Extron, AMX or Telnet. Stereo speakers with 15W per channel provide rich audio for all-in-one applications.

## CONNECTIVITY (May require optional accessories)



Computers



Smart Phones



Tablets



3D Blu-ray/DVD Players



Camcorders



Apple TV®



Chromecast™

# 1080p Laser Projector - ZH406

## OPTICAL/TECHNICAL SPECIFICATIONS

<b>Display Technology</b>	Texas Instruments™ 0.65" 1080p DMD
<b>Color Wheel</b>	4 segment RGBY
<b>Native Resolution</b>	1080p
<b>Maximum Resolution</b>	<b>HDMI 2.0:</b> 4K UHD (3840 x 2160 @ 60Hz) 4K (4096 x 2160, 60Hz) <b>HDMI 1.4:</b> WUXGA (1920 x 1200)
<b>Brightness</b>	4,500 ANSI lumens
<b>Contrast Ratio</b>	300,000:1 (Extreme Black enabled) 1,800:1 full on/full off
<b>Displayable Colors</b>	1.07 billion
<b>Lamp Life*</b>	Up to 30,000 hrs (Eco), 20,000 hrs (Normal)
<b>Light Source Type*</b>	Laser
<b>Projection Method</b>	360°, front, rear, ceiling mount, table top 360°: auto dims to 60%±5% in 195° - 345° orientation Portrait: auto dims to 90%±5%
<b>Keystone Correction</b>	Auto keystone, ±30° horizontal and vertical
<b>Geometry</b>	Four corner adjustment
<b>Lens Shift</b>	16% vertical
<b>Uniformity</b>	80%
<b>Offset</b>	116%
<b>Aspect Ratio</b>	16:9 (native), 4:3, LBX, auto compatible
<b>Throw Ratio</b>	1.4–2.24:1±5%
<b>Projection Distance</b>	3.28" – 32.81" (without zoom)
<b>Image Size</b>	20.2" – 320.4"
<b>Projection Lens</b>	f=20.9–32.6mm
<b>Optical Zoom</b>	1.6x
<b>Digital Zoom</b>	0.8 - 2.0x
<b>Audio</b>	2 x 15W (stereo)
<b>Noise Level</b>	30dB (typical); 32dB (max)
<b>Remote Control</b>	Full size remote with laser pointer
<b>360° and Portrait mode operation</b>	Yes
<b>Operating Temperature</b>	41–104°F (5–40°C), 85% max humidity
<b>Power Supply</b>	AC input 100–240V, 50–60Hz, auto-switching
<b>Power Consumption</b>	Bright: 277W max Eco: 212W max, 143W typical
<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, 4K, 4K UHD
<b>Video Input Compatibility</b>	PAL, SECAM, 576i/p, NTSC, 480i/p, HDTV 720p/1080i/1080p 4K UHD 2160p (24/50/60 Hz), 4K
<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 sold separately. Refer to user manual for details.
<b>Vertical Scan Rate</b>	50 ~ 85 Hz (120 Hz for 1080p 3D feature)
<b>Horizontal Scan Rate</b>	15.375 ~ 91.146 KHz
<b>User Controls</b>	Graphic user interface and on-screen menu in 27 languages
<b>I/O Connection Ports</b>	1x HDMI 2.0 (HDCP 2.2, MHL), 1x HDMI 1.4, 1x VGA, 1x composite, 2x audio in (3.5mm), 1x mic in, 1x USB-A (power, 5V, 1.5A), 1x VGA out (VGA 1 only), 1x audio out, 1x 12v trigger, 1x 3D sync, 1x micro USB (service)
<b>Control</b>	1x RJ-45, 1x RS-232C

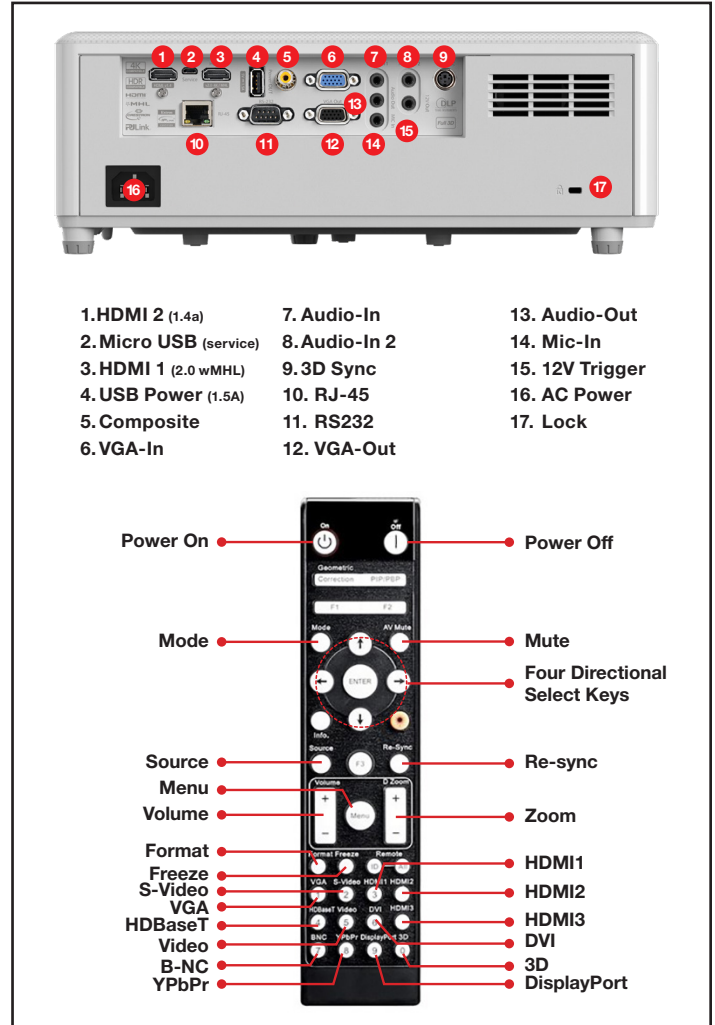
## PHYSICAL SPECIFICATIONS

<b>Security</b>	Kensington® lock port, password (OSD)
<b>Weight</b>	10 lbs
<b>Dimensions (W x H x D)</b>	13.26" x 4.8" x 10.5"

\*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.

Portrait orientation must follow the recommended positions. Please consult the user manual for further information.



- 1. HDMI 2 (1.4a)
- 2. Micro USB (service)
- 3. HDMI 1 (2.0 wMHL)
- 4. USB Power (1.5A)
- 5. Composite
- 6. VGA-In
- 7. Audio-In
- 8. Audio-In 2
- 9. 3D Sync
- 10. RJ-45
- 11. RS232
- 12. VGA-Out
- 13. Audio-Out
- 14. Mic-In
- 15. 12V Trigger
- 16. AC Power
- 17. Lock

- Power On
- Mode
- Source
- Menu
- Volume
- Format
- Freeze
- S-Video
- VGA
- HDBaseT
- Video
- B-NC
- YPbPr
- Power Off
- Mute
- Four Directional Select Keys
- Re-sync
- Zoom
- HDMI1
- HDMI2
- HDMI3
- DVI
- 3D
- DisplayPort

### Warranty

2 Year parts and labor limited warranty on the projector, 5-year or 12,000 hour light source warranty (whichever comes first)

### What's in the Box

ZH406, AC power cable, remote control, batteries, quick start user manual

### Accessories

- Universal Ceiling mount: OCM815W
- Universal Ceiling mount: OCM818W-RU
- Universal Ceiling mount: BM-5001U
- Remote (replacement): BR-3075W
- 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)

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