

# 1080p Short Throw Laser Projector

ZH406ST



Short throw, compact and virtually maintenance free



- 4,200 ANSI lumens with 300,000:1 contrast ratio
- 4K UHD input with HDMI 2.0 (HDCP 2.2)
- 0.50:1 short throw ratio
- HDR10 and HLG compatible
- DuraCore maintenance-free laser light source up to 30,000 hours
- Four corner correction
- 24/7, 360° and portrait mode operation



1080p



Full 3D



Project large images with the short throw, 4,200 lumens and 1080p Optoma ZH406ST. The short 0.50:1 throw ratio produces large 100-inch images from only several feet away, ideal for space constrained installations.

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 10W 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 Short Throw Laser Projector - ZH406ST

## 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>	4,200 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 hours (Normal)
<b>Light Source Type*</b>	DuraCore 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>	NA
<b>Uniformity</b>	75%
<b>Offset</b>	115%
<b>Aspect Ratio</b>	16:9 (native), 4:3, LBX and auto compatible
<b>Throw Ratio</b>	0.5:1
<b>Projection Distance</b>	3' - 11'
<b>Image Size</b>	36.43" – 301.4"
<b>Projection Lens</b>	f=7.42mm
<b>Optical Zoom</b>	NA
<b>Digital Zoom</b>	0.8 - 2.0x
<b>Audio</b>	2 x 10W (stereo)
<b>Noise Level</b>	32db
<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<sup>†</sup></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>	24 ~ 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 mini USB
<b>Control</b>	1x RJ-45, 1x RS-232C

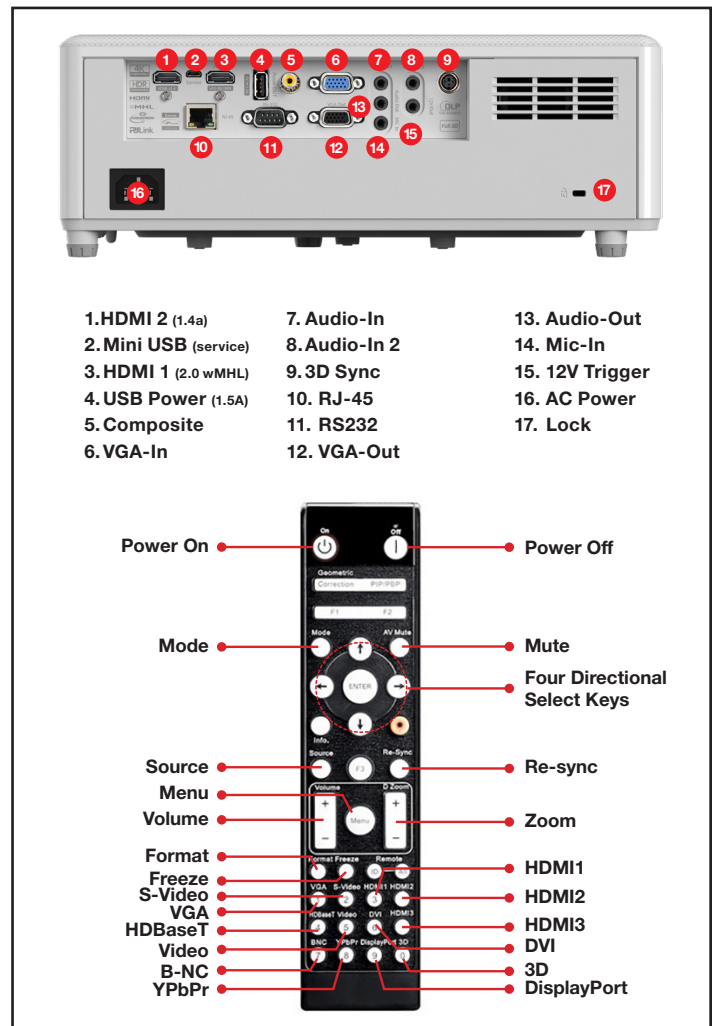
## PHYSICAL SPECIFICATIONS

<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.

<sup>†</sup>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. Mini 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

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

### What's in the Box

ZH406ST, AC power cable, remote control, batteries, quick start guide,

### Optional Accessories

Ceiling mount, wall mount

### Accessory Part Numbers

Ceiling mount: OCM815W  
Ceiling mount: OCM818W-RU  
Wall mount: OMW3000ST  
Remote: BR-3075W

UPC 796435 44 439 6

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