1080p Short Throw Laser Projector
ZH406ST

Optoma

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

DLP TEXAS INSTRUMENTS | **BrilliantColor** | **HDMI** HIGH DEFINITION MULTIMEDIA INTERFACE | **1080p** | **WIDESCREEN 16:9 ENHANCED** | **Full 3D** | **RS-232** | **LASER** | **CRESTRON**

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™

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OPTICAL/TECHNICAL SPECIFICATIONS

Display Technology	Texas Instruments™ 0.65" 1080p DMD
Color Wheel	4 segment RGBY
Native Resolution	1080p
Maximum Resolution	**HDMI 2.0:** 4K UHD (3840 x 2160 @ 60Hz) 4K (4096 x 2160, 60Hz) **HDMI 1.4:** WUXGA (1920 x 1200)
Brightness	4,200 ANSI lumens
Contrast Ratio	300,000:1 (Extreme Black enabled) 1,800:1 full on/full off
Displayable Colors	1.07 billion
Lamp Life*	Up to 30,000 hrs (Eco), 20,000 hours (Normal)
Light Source Type*	DuraCore laser
Projection Method	360°, front, rear, ceiling mount, table top 360°: auto dims to 60%±5% in 195° - 345° orientation Portrait: auto dims to 90%±5%
Keystone Correction	Auto keystone, ±30° horizontal and vertical
Geometry	Four corner adjustment
Lens Shift	NA
Uniformity	75%
Offset	115%
Aspect Ratio	16:9 (native), 4:3, LBX and auto compatible
Throw Ratio	0.5:1
Projection Distance	3'- 11'
Image Size	36.43" – 301.4"
Projection Lens	f=7.42mm
Optical Zoom	NA
Digital Zoom	0.8 - 2.0x
Audio	2 x 10W (stereo)
Noise Level	32db
Remote Control	Full size remote with laser pointer
360° and Portrait mode operation	Yes
Operating Temperature	41–104°F (5–40°C), 85% max humidity
Power Supply	AC input 100–240V, 50–60Hz, auto-switching
Power Consumption	Bright: 277W max Eco: 212W max, 143W typical
High Altitude	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

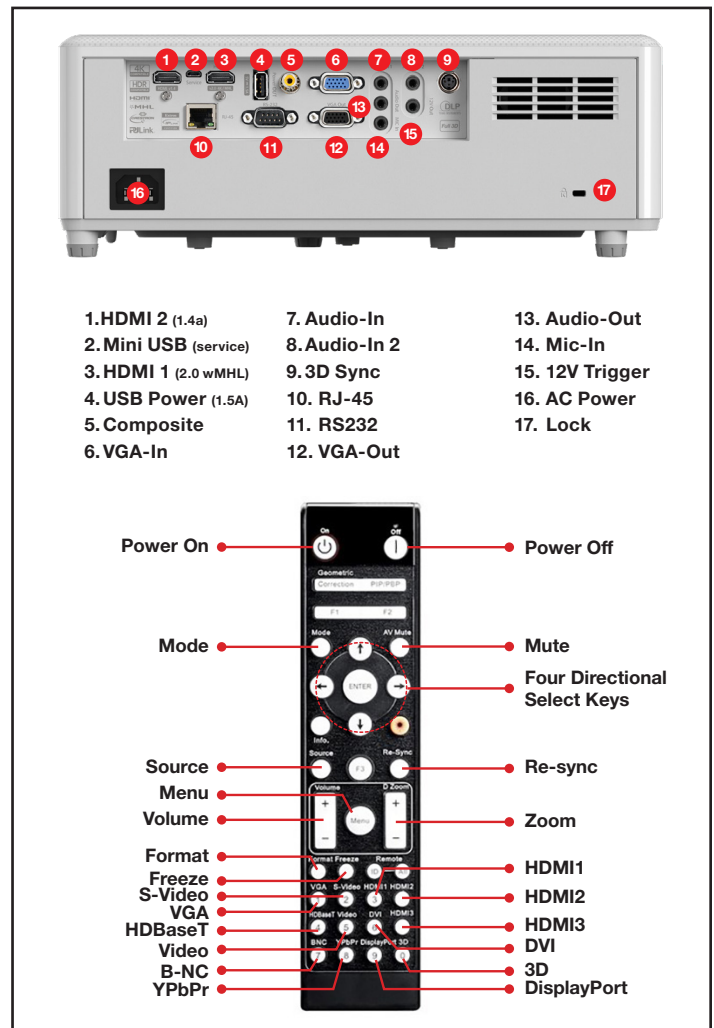|	
Computer Compatibility	VGA, SVGA, HDTV(720P), WXGA, WXGA+, SXGA, SXGA+, UXGA, HDTV(1080p), WUXGA, 4K, 4K UHD
Video Input Compatibility	PAL, SECAM, 576i/p, NTSC, 480i/p, HDTV 720p/1080i/1080p 4K UHD 2160p (24/50/60 Hz), 4K
3D Compatibility†	Supports all HDMI 1.4a mandatory 3D formats (Frame pack, side-by-side, 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 sold separately. Refer to user manual for details.
Vertical Scan Rate	24 ~ 85 Hz (120 Hz for 1080p 3D feature)
Horizontal Scan Rate	15.375 ~ 91.146 KHz
User Controls	Graphic user interface and on-screen menu in 27 languages
I/O Connection Ports	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
Control	1x RJ-45, 1x RS-232C

PHYSICAL SPECIFICATIONS

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

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

What's in the Box

ZH406ST, 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)

UPC 796435 44 439 6

*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 and 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.

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