Brighten any room with razor-sharp, 4,000 lumen, 1080p projection with the remarkable Optoma ZH403. 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. Vertical keystone, 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. A 10W speaker provides 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™
## 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**  
4,000 ANSI lumens

**Contrast Ratio**  
300,000:1 (Extreme Black enabled) 1,800:1 full on/full off

**Displayable Colors**  
72 colors

**Lamp Life**  
Up to 30,000 hrs (Eco), 20,000 hrs (Normal)

**Light Source Type**  
DuraCore laser

**Projection Method**  
360°: front, rear, ceiling mount, table top  
360°: auto dims to 90%±5% orientation

**Keystone Correction**  
±30° vertical

**Geometry**  
Vertical keystone

**Uniformity**  
75%

**Offset**  
100%

**Aspect Ratio**  
16:9 (native), 4:3, LBX, auto compatible

**Throw Ratio**  
1.21-1.59:1±5%

**Projection Distance**  
2.4’- 34.7’ (without zoom)

**Image Size**  
28” – 300.3”

**Projection Lens**  
n=12.81–16.74mm, F=1.94–2.23

**Optical Zoom**  
1.3x

**Digital Zoom**  
0.8 - 2.0x

**Audio**  
10W

**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**  
Eco: 193W typical, 220W max  
Bright: 246W typical, 283W max

**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 (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 audio in (3.5mm), 1x USB-A (power, 5V, 1.5A), 1x micro USB (service)

**Control**  
1x RJ-45, 1x RS-232C

## PHYSICAL SPECIFICATIONS

**Security**  
Kensington® lock port, password (OSD)

**Weight**  
9.4 lbs

**Dimensions (W x H x D)**  
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.

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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.
**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)
HDMI 1.4: WUXGA (1920 x 1200)

**Brightness**
4,500 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 hrs (Normal)

**Light Source Type**
DuraCore laser

**Projection Method**
360°: front, rear, ceiling mount, table top
360°: auto dims to 60%±5% in 196° - 345° orientation
Portrait: auto dims to 90%±5%

**Keystone Correction**
Auto keystone, ±30° horizontal and vertical

**Geometry**
Four corner adjustment

**Lens Shift**
16% vertical

**Uniformity**
75%

**Offset**
100%

**Aspect Ratio**
16:9 (native), 4:3, LBX, auto compatible

**Throw Ratio**
1.4-2.24:1±5%

**Projection Distance**
2.8’-44.1’ (without zoom)

**Image Size**
f=20.9-32.6mm

**Optical Zoom**
1.6x

**Digital Zoom**
0.8 - 2.0x

**Audio**
2 x 15W (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, 576p, 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**
Graphical 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 micro USB (service)

**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”

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

2. 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.

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**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**
ZH406, AC power cable, remote control, batteries, quick start guide.

**Optional Accessories**
Ceiling mount

**Accessory Part Numbers**
Ceiling mount: OCM818W-RU
Ceiling mount: OCM815W
Remote: BR-3075W

**UPC**
796435 44 435 8

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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
- Vertical lens shift with four corner correction
- 24/7, 360° and portrait mode operation

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.
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
                      Portrait orientation must follow the recommended positions. Please consult the user manual for further information.
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 (4096 x 2160), 24/50/60 Hz)
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 – 65 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, SV, 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"

*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.

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Express advance exchange warranty on the projector.
5-year or 12,000 hour light source warranty (whichever comes first), 3-year Optoma
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: OCM818W-RU
Wall mount: OMW3000ST
Remote: BR-3075W

UPC: 796435 44 439 6
ZW350
Compact high brightness laser projector

- Bright WXGA DuraCore laser projector - 3500 lumens and IP6X certified
- Easy installation - 1.3x zoom, 360-degree and portrait projection
- Ultimate control - Crestron, Extron, AMX, PJ-Link and Telnet LAN commands
- DuraCore laser technology - 30,000 hours maintenance-free laser light source

The ZW350 is a compact WXGA DuraCore IP6X laser projector. Designed for maintenance-free continuous operation, it can be installed in virtually any orientation. Its small and lightweight footprint and 1.3x zoom combined with 360-degree and portrait projection make it easy to install.

This feature-packed projector has a built-in speaker and its laser technology delivers up to 30,000 hours of maintenance-free laser light source. For ultimate control, it comes with an RJ45 connection for monitoring and controlling a network across multiple rooms.
## Specifications

### Display/Image
- **Display technology**: DLP™
- **Resolution**: WXGA (1280x800)
- **Brightness**: 3,500 lumens
- **Contrast ratio**: 300,000:1
- **Native aspect ratio**: 16:10
- **Aspect ratio - compatible**: 4:3, 16:9
- **Keystone correction - vertical**: +/-40°
- **Has vertical auto keystone correction**: Yes
- **Displayable colors (millions)**: 1073.4
- **Horizontal scan rate**: 15.375 ~ 91.146 Khz
- **Vertical scan rate**: 50 ~ 85 Hz (120Hz for 3D)
- **Uniformity**: 75%
- **Screen size**: 30.1” ~ 301” diagonal

### Optical
- **Throw ratio**: 1.18:1 ~ 1.54:1
- **Projection distance**: 39.37” ~ 303.15”
- **Zoom**: 1.3
- **Zoom type**: Manual
- **Focal length (mm)**: 16.901 ~ 21.6076
- **Native offset**: 113%

### Connectivity
- **Connections**
  - **Inputs**: 2 x HDMI 1.4a 3D support, 1 x VGA (YPbPr/RGB), 1 x Audio 3.5mm
  - **Outputs**: 1 x Audio 3.5mm, 1 x USB-A power 1.5A
  - **Control**: 1 x RS232, 1 x RJ45, 1 x micro USB service

### General
- **Noise level (typical)**: 30dB
- **Noise level (max)**: 32dB
- **PC compatibility**: FHD, UXGA, SXGA, WXGA, HD, XGA, SVGA, VGA, Mac
- **2D compatibility**: NTSC M/J, 3.58MHz, 4.43MHz PAL B/D/G/H/I/M/N, 4.43MHz SECAM B/D/G/K/K1/L, 4.25MHz 480i/p, 576i/p, 720p(50/60Hz), 1080i(50/60Hz), 1080p(50/60Hz)
- **3D Full 3D**: Yes
- **Security**: Security bar, Kensington Lock, Password protected interface
- **IP rating**: IP6X
- **OSD / display languages**: 25 languages: Arabic, Czech, Danish, Dutch, English, Farsi, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Norwegian, Polish, Portuguese, Romanian, Russian, Chinese (simplified), Spanish, Swedish, Chinese (traditional), Turkish, Vietnamese

### 24/7 operation
- **Yes**

### Operating conditions
- **5°C ~ 40°C, Max. Humidity 85%, Max. Altitude 3000m**

### Remote control
- **Data remote with laser and mouse function**

### Speaker count
- **1**

### Watts per speaker
- **15W**

### In the box
- **AC power cord**
- **Remote control**
- **2x AAA batteries**
- **Basic user manual**

### Optional wireless models
- **UHDCast Pro**

### Networking
- **LAN - control**: Yes

### Power
- **Power supply**: 100V ~ 240V, 50-60Hz
- **Power consumption (standby)**: <0.5W
- **Power consumption (min)**: 12W
- **Power consumption (max)**: 161W

### Weight and dimensions
- **Dimensions (W x D x H)**: 19.27” x 10.43” x 4.82”
- **Gross weight**: 13.67 lbs
- **Net weight**: 8.82 lbs

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