# ZH450ST
Eco-friendly high brightness short throw Full HD laser projector

**Full HD** 1080p | **LASER** | **Eco⁺**



- **Bright Full HD 1080p DuraCore laser projector - 4200 lumens and IP6X certified**

- **Compact and short throw lens for easy installation - 360-degree and portrait projection**

- **Reduced power consumption for a long life span - DuraCore laser technology delivers 30,000 hours maintenance free laser light source**

- **External power supply - More reliability, portability and energy efficiency**

The ZH450ST is one of Optoma's most compact and hassle-free Full HD 1080p DuraCore laser projectors to date. Designed for maintenance-free continuous operation, this 4200-lumen projector delivers powerful image performance with flexible installation features and extensive connectivity options in a sleek, compact form factor, up to 34% smaller than previous Optoma models.[1]

An added benefit, the ZH450ST features an external power supply offering more reliability, portability and energy efficiency.

# Specifications

EAN: 5055387666818, Colour: White

UPC: 796435 44 658 1, Colour: White

### Display/image

| | |
|---|---|
| Display technology | DLP™ |
| Resolution | 1080p Full HD (1920x1080) |
| Brightness | 4,200 lumens |
| Contrast ratio | 300,000:1 |
| Contrast ratio - dynamic | 2,000,000:1 |
| Native aspect ratio | 16:9 |
| Aspect ratio - compatible | 4:3,16:9,16:10 |
| Keystone correction - horizontal | +/-15° |
| Keystone correction - vertical | +/-15° |
| Displayable colours (millions) | 1073.4 |
| Horizontal scan rate | 15 ~ 140Khz |
| Vertical scan rate | 24 ~ 120Hz |
| Uniformity | 75% |
| Screen size | 0.91m ~ 7.42m (36" ~ 292") diagonal |

### Lamp info

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|---|---|
| Light source type | Laser |
| LASER life | 30,000 hours |

### Optical

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|---|---|
| Throw ratio | 0.496:1 |
| Projection distance (m) | 0.4m - 3.2m |
| Zoom type | Fixed |
| Focal length (mm) | 7.51 |
| Native offset | 116% |

### Connectivity

| | |
|---|---|
| Connections | **Inputs** 2 x HDMI 2.0 |
| | **Outputs** 1 x Audio 3.5mm, 1 x USB-A power 1.5A |
| | **Control** 1 x RS232, 1 x RJ45 |

### General

| | |
|---|---|
| Noise level (min) | 29dB |
| Noise level (max) | 36dB |
| 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, 4.25/4.4MHz 480i/p, 576i/p, 720p(50/60Hz), 1080i(50/60Hz), 1080p(50/60Hz) |
| 3D compatibility | Yes (DLP 3D; PC frame sequential 120Hz 3D, Blu-ray DVD 3D)ver-Under: 1080p24, 720p50 / 60 |
| 3D | Full 3D |
| 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 |
| 360° operation | Yes |
| Operating conditions | 0°C ~ 40°C, Max. Humidity 80%, Max. Altitude 2,500m |
| Remote control | Card style |
| Speaker count | 1 |
| Watts per speaker | 15W |
| In the box | AC power cord<br>Remote control<br>1x CR2025 battery<br>Basic user manual |
| Optional wireless models | UHDCast Pro |

### Power

| | |
|---|---|
| Power supply | External power supply, 100V ~ 240V, 50-60Hz |
| Power consumption (standby) | <0.5W |
| Power consumption (min) | 119W |
| Power consumption (max) | 173W |

### Weight and dimensions

| | |
|---|---|
| Dimensions (W x D x H) mm | 274 x 216 x 114 |
| Gross weight | 4.2 kg |
| Net weight | 3 kg |