

ZH521

Compact 5,500lm Full HD Laser Business Projector



The Optoma ZH521 is a 5,500-lumen Full HD 1080p laser projector engineered for 24/7 reliability in business or education spaces. This compact, maintenance-free laser solution features a 30,000-hour lifespan, 1.3x optical zoom, smart control, and centralized IT management via Optoma Management Suite (OMS™) to support sustainable and efficient operation

5,500-lumen brightness –Clear projection for spaces with ambient light

- 30,000h laser life –DuraCore laser ensures long-term reliability and low TCO
- 1.3x optical zoom & geometric correction for versatile mounting
- Sustainable design –50% recycled metal and PCR materials
- Optoma Management Suite (OMS™) –Enables centralized monitoring and control across multiple devices



Specification

Display

| | |
|----------------------------------|---|
| Technology | DLP® |
| Resolution | 1080p Full HD (1920x1080) |
| Brightness | 5,500 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, Full, Squeeze, Native |
| Keystone correction - horizontal | +/-30° |
| Keystone correction - vertical | +/-30° |
| Horizontal scan rate | 15~135 KHz |
| Vertical scan rate | 24~120 Hz |
| Uniformity | 75% |
| Screen size | 30"~306" |



Light source

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|-------------------|-------------------------|
| Light source type | Laser |
| Light source life | 30,000 hours (Eco mode) |

Optical

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|---------------------|---|
| Throw ratio | 1.13:1 ~ 1.47:1 |
| Projection distance | 1m~ 10m (mechanism travel) ; 1.3m to 3m (Optical travel) |
| Zoom | 1.3 |
| Zoom type | Manual |
| Focal length | 16.90mm~21.60mm |
| Native offset | 116% +/-5% |

Connectivity

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|-----------------------|--|
| Connections- Inputs | HDMI 2.0 x2, VGA In x1, Audio 3.5mm x1 |
| Connections - Outputs | USB-A 2.0 x2, 3D sync out x1, Audio 3.5mm x1 |
| Connections - Control | RJ45 x1, RS232 x1, 12V trigger x1 |

Specification

General

| | |
|--|--|
| Noise level (min) | 29 dB(A) |
| Noise level (max) | 29 dB(A) |
| PC compatibility | VGA,SVGA,XGA,720p,WXGA,SXGA,SXGA+,UXGA,1080p,WUXGA |
| 2D compatibility | NTSC,PAL,SECAM,SDTV,HDTV,UHD |
| 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 |
| Security | Security bar, Kensington Lock, Password protected interface |
| OSD / display languages | 27 languages: Arabic, Czech, Danish, Dutch, English, Farsi, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Simplified Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Vietnamese |
| 24/7 operation | Yes |
| 360° operation | Yes |
| Operating conditions | Max Temperature(operating): 0 ~ 40°C; Tolerance +/- 2°C, Max Altitude(operating): 10,000 ft., for 0°C~30°C, Max humidity(operating): 80% RH, non-condensing |
| Remote control | Business remote control |
| Speaker count & Watts per speaker | 1 x 15W |
| Input lag | 4K/ 60Hz: 16.7 ms 1080P/ 60Hz: 16.7 ms 1080P/ 120Hz: 8.6 ms |
| In the box | AC power cord Remote control Quick start user manual |

Networking

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|-----------------------|-----|
| LAN control | Yes |
| 24/7 operation | Yes |
| 360° operation | Yes |

Power

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|--|--------------------------------|
| Power supply | AC 100 ~ 240 V, 50 ~ 60 Hz |
| Power consumption (standby) | ≤0.5 W |
| Power consumption (eco mode) | 150 W@110VAC 147 W@220VAC |
| Power consumption (bright mode) | 210 W @110VAC 205 W @220VAC |

Specification

Weight and dimensions

| | |
|-------------------------------|---|
| Dimensions (W x D x H) | W/o feet: 216 x 274 x 108.5mm (10.8 x 8.5 x 4.3 inches) With feet: 216 x 274 x 114mm (10.8 x 8.5 x 4.5 inches) |
| Gross weight | 4.3 kg / 9.5 lbs |
| Net weight | 2.9 Kg / 6.4 lbs |