

# ZH521

## Compact 5,500lm Full HD Laser Business Projector

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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

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## 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"                                |

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## Light source

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

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## Optical

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

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## Connectivity

|                       |  |
|-----------------------|--|
| 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

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## General

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|--|--|
| <b>Noise level (min)</b>                     | 29 dB(A)   |
| <b>Noise level (max)</b>                     | 29 dB(A)   |
| <b>PC compatibility</b>                      | VGA,SVGA,XGA,720p,WXGA,SXGA,SXGA+,UXGA,1080p,WUXGA   |
| <b>2D compatibility</b>                      | NTSC,PAL,SECAM,SDTV,HDTV,UHD   |
| <b>3D compatibility</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  |
| <b>Security</b>                              | Security bar, Kensington Lock, Password protected interface  |
| <b>OSD / display languages</b>               | 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 |
| <b>24/7 operation</b>                        | Yes  |
| <b>360° operation</b>                        | Yes  |
| <b>Operating conditions</b>                  | Max Temperature(operating): 0 ~ 40°C; Tolerance +/- 2°C,<br>Max Altitude(operating): 10,000 ft., for 0°C~30°C,<br>Max humidity(operating): 80% RH, non-condensing  |
| <b>Remote control</b>                        | Business remote control  |
| <b>Speaker count &amp; Watts per speaker</b> | 1 x 15W  |
| <b>Input lag</b>                             | 4K/ 60Hz: 16.7 ms<br>1080P/ 60Hz: 16.7 ms<br>1080P/ 120Hz: 8.6 ms  |
| <b>In the box</b>                            | AC power cord<br>Remote control<br>Quick start user manual   |

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## Networking

|                       |     |
|-----------------------|-----|
| <b>LAN control</b>    | Yes |
| <b>24/7 operation</b> | Yes |
| <b>360° operation</b> | Yes |

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## Power

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

# Specification

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## Weight and dimensions

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