

# ZH520

Eco-friendly compact high brightness Full HD laser projector

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The ZH520 is one of Optoma's most compact and hassle-free Full HD 1080p DuraCore laser projectors to date. Designed for maintenance-free continuous operation, it 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.<sup>1</sup>



To support Optoma's commitment to sustainability, the ZH520 cuts power consumption by up to 45% compared to Optoma's lamp-based projectors.<sup>2</sup> Energy-saving DuraCore laser technology ensures a long product lifespan of up to 30,000 hours without the need for additional lamps, requires minimal maintenance, and is mercury-free, further lowering its carbon footprint.

An added benefit, the ZH520 features an external power supply offering more reliability, portability and energy efficiency.

Designed with the environment in mind, the eco-friendly chassis design is made with up to 50% PCR (Post-Consumer Recycled) plastics and the packaging contains up to 97% recyclable materials.<sup>3</sup> In addition, the compact product and packaging size of the Optoma ZH520 projector allows 2x more products carried per container, resulting in more efficient logistics to help further reduce carbon emissions.<sup>1</sup>

Geared for conference rooms, boardrooms, and other corporate spaces, the ZH520 features a 1.3x zoom for a flexible setup. For ultimate convenience it comes with an RS232 connection for monitoring and controlling and a built-in speaker.

# Specification



## Display/image

|                                  |                           |
|----------------------------------|---------------------------|
| Display technology               | DLP®                      |
| Resolution                       | 1080p Full HD (1920x1080) |
| Brightness                       | 5,500 lumens              |
| Contrast ratio                   | 3,000,000:1               |
| Dynamic Contrast                 | 3,000,000:1               |
| Native aspect ratio              | 16:9                      |
| Aspect ratio - compatible        | 4:3,16:9                  |
| Keystone correction - horizontal | 30°                       |
| Keystone correction - vertical   | 30°                       |
| Displayable colors (millions)    | 1073.4                    |
| Uniformity                       | 75%                       |

## Lamp info

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

## Optical

|                     |                  |
|---------------------|------------------|
| Throw ratio         | 1.13:1 ~ 1.47:1  |
| Projection distance | 39.37" - 314.96" |
| Zoom                | 1.3              |
| Zoom type           | Manual           |
| Focal length (mm)   | 16.90 ~ 21.61    |
| Native offset       | 116%             |

## Connectivity

|         |                                       |
|---------|---------------------------------------|
| 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)        | 35dB                                                                                                                                                                                                                                                                                |
| PC compatibility         | FHD, UXGA, SXGA, WXGA, HD, XGA, SVGA, VGA, Mac<br>NTSC M/J, 3.58MHz, 4.43MHz PAL B/D/G/H/I/M/N, 4,43MHz SECAM<br>B/D/G/K/K1/L, 4.25/4.4MHz 480i/p, 576i/p, 720p(50/60Hz), 1080i(50/60Hz),<br>1080p(50/60Hz)                                                                         |
| 2D compatibility         |                                                                                                                                                                                                                                                                                     |
| 3D compatibility         | Yes (DLP 3D; PC frame sequential 120Hz 3D, Blu-r                                                                                                                                                                                                                                    |
| 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,<br>German, Greek, Hungarian, Indonesian, Italian, Japanese, Norwegian,<br>Polish, Portuguese, Romanian, Russian, Chinese (simplified), Spanish,<br>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 cordRemote control1x CR2025 batteryBasic user manual                                                                                                                                                                                                                       |
| Optional wireless models | UHDCast Pro                                                                                                                                                                                                                                                                         |

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# Specification

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## Power

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Power supply                | External power supply, 100V ~ 240V, 50-60Hz |
| Power consumption (standby) |                                             |
| Power consumption (min)     | 128W                                        |
| Power consumption (max)     | 205W                                        |

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## Weight and dimensions

|                        |                       |
|------------------------|-----------------------|
| Dimensions (W x D x H) | 10.79" x 8.5" x 4.25" |
| Gross weight           | 10.14 lbs             |
| Net weight             | 7.5 lbs               |
| UPC                    | 796435 44 693 2       |