

# Model ZLP2

## Proven, powerful laser projector with Z-FIBER source

With the ZLP2, the performance features of the ZLP family have been consistently advanced. For example, the laser projector features an unprecedented beam quality due to the use of fiber-coupled laser sources. With an accuracy of 0.1mm/m working distance, the laser projector is predestined for classic industries such as wood and stone processing as well as for cross-industry applications with composite materials.

The ZLP2 can be controlled by the intuitive ZLP-Suite software with a graphical user interface. Likewise, the ZLP2 can be embedded into existing customer applications through the integrated application programming interface (API).

ZLP-Suite can be customized and extended by additional software modules. Furthermore, the ZLP2 can now be controlled natively via a TCP/IP-capable PLC.



Intuitive software



Optical angle up to 80°



Optimized for 2D and 3D projection



Integration into multiprojector systems



Improved thermal management



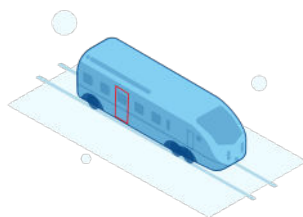
IP65

## Highlights

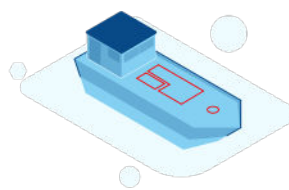
- Highly precise and stable laser projection
- Large aperture (up to 80° x 80°) enables large working areas
- Intuitive graphical user interface ZLP-Suite
- Optimized for projection on 3D objects
- Data transmission via ethernet adapter
- Advanced programming interface (API) for C++, C#, Rust, Python
- Excellent beam performance by the fiber-coupled laser source
- Easy integration into multi projection systems
- Client-/Server architecture
- PLC-Gateway (Siemens S7)



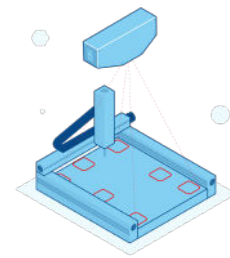
Automotive



Train Construction



Ship Building



Wood and Stone CNC

## System specifications

Laser source		Fiber-coupled green laser diode
Wavelength	nm	520
Output power		Standard
Laser class (on EN 60825)		2M
Optics		Focusable
Recommended working distance	m	0.5 - 7
Recommended projection angle	°	76 x 76 (80 x 80 max.)
Accuracy <sup>(1)</sup>	mm/m	0.1
Weight	kg	ca. 6.6
Dimensions	mm	500 x 200 x 141 (181 incl. fan)
IP protection class		IP 65

## Software / handling

Software	ZLP-Suite
Control	ZLP-Manager (GUI), API (C++, C#, Rust and Python SDKs), PLC (Siemens S7), Remote control
Graphics format	Step, IGES, DXF, PLY, ULB6, HPGL, more on request

## Electrical specifications

Operating voltage <sup>(2)</sup>	VDC	24 (±5%)
Power consumption	W	50 typ. (100 max.)
Interfaces		Ethernet TP, 100 Base TX Cat6

## Ambient Conditions

Operating condition	°C	+0 up to +50
Storage temperature		-20 up to +70
Humidity	%	< 80% relative, non-condensing

Distance projector to workpiece (in mm)	Maximum extension of the working area (in mm)
1 000	1 562 x 1 562
2 000	3 125 x 3 125
3 000	4 687 x 4 687
4 000	6 250 x 6 250
5 000	7 812 x 7 812
6 000	9 375 x 9 375
7 000	10 938 x 10 938
8 000	12 500 x 12 500
9 000	14 063 x 14 063

<sup>(1)</sup> At constant 28°C block temperature, optical angle 50°, inclination of 0°.

<sup>(2)</sup> The input voltage must be applied via the supplied power supply unit.