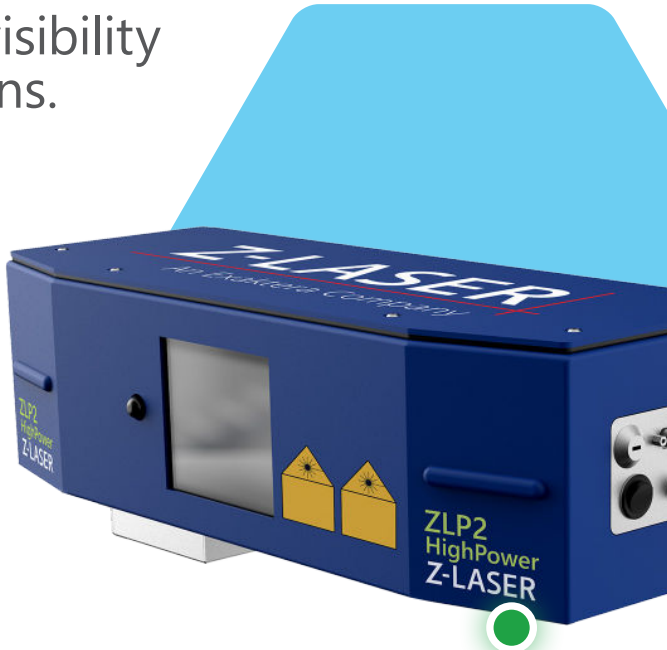
Z-LASER
by Exaktera

Model ZLP2-HighPower

Laser projector with unmatched visibility for the most demanding conditions.

The ZLP2-HighPower laser projector not only impresses with its particularly robust and high-quality workmanship. In addition to optimized software, the inner workings with a more powerful laser source, new mechanics and revised electronics also set new standards. The result: brightness, accuracy and durability of this laser projector will inspire you – not only in difficult lighting conditions or when mounted at great heights.

As an innovative tool, the ZLP2-HighPower is particularly impressive in the concrete industry, the aerospace industry, and the production of rotor blades for wind turbines. In all these industries, the laser projector makes daily processes easier, faster, and more precise. Be it because formwork elements and recesses are displayed more accurately or because material and tools can be aligned or positioned more precisely. Thus, productivity increases of up to 30% are possible with the ZLP2-HighPower.



Wavelength: 520 nm

Optimized for difficult lighting conditions

Digital driver technology

Intuitive software

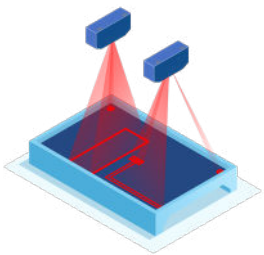
Optical angle up to 80° x 60°

Integration into multiprojector systems

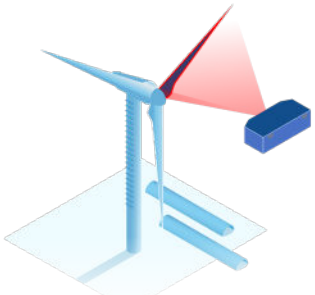
IP65

Highlights

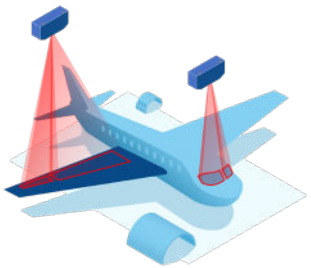
- Easy replacement of essential components by the customer in the field with a downtime of less than 1 hour
- Intuitive API for easy integration with customer software and existing systems
- Standardized power and network components avoid additional costs
- Optimized for working areas up to 10 m x 10 m and projection distances up to 20 m
- Adjustable focus enables precise projections at different distances and on different surfaces
- Accuracy of better than +/- 0.1 mm/m for highly precise results
- Fine 3D line quality even at high projection distances ensures visible and clear projections



Concrete and building elements



Production of rotor blades for wind turbines



Aerospace industry

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System specifications

Laser source		Fiber-coupled green laser diode
Wavelength	nm	520
Output power		High Power
Laser class (on EN 60825)		3R
Optics		Focusable
Recommended working distance	m	up to 20
Recommended projection angle	°	76 x 60 (80 x 60 max.)
Accuracy [1]	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 [2]	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 1 155
2 000	3 125 x 2 309
3 000	4 687 x 3 464
4 000	6 250 x 4 619
5 000	7 812 x 5 774
6 000	9 375 x 6 928
7 000	10 938 x 8 083
8 000	12 500 x 9 238
9 000	14 063 x 10 393

[1] At constant 28°C block temperature, optical angle 50°, inclination of 0°.
[2] The input voltage must be applied via the supplied power supply unit.