

Model: ZLP1

Software Interfaces		Cost-effective and compact laser projector	Red or green laser source	Multi projection system
Easy-to-use: ZLP-Suite	Advanced (API): C++, C#, Python, VBA			

Laser projector ZLP1

ZLP1 is a cost effective entry to laser projection. It is the smallest laser projector in the Z-LASER ZLP family.

ZLP1 is directed to 2D and 3D applications like pick-and-place, logistics and workstations. Enlarge and optimize your production or workflow by this easy to use laser projection system. ZLP1 is eye-safe (laser class 2M) and covers working fields from 1.0 m x 1.0 m up to 3.5 m x 3.5 m. Possible working distances range from 1.0 m to 3.0 m.

We offer our own software ZLP-Suite, which has an intuitive software interface with many customizable options and as a result customers can adapt the settings according to their specific application. Furthermore, ZLP-Suite can be upgraded with additional software modules. Thanks to its numerous connectivity options the laser projector can be operated through various software interfaces such as C++, C#, Python or even with Microsoft Excel and Microsoft PowerPoint.

Ask Z-LASER for OEM integration.

HIGHLIGHTS

- Cost-effective laser projection system
- Optimized for interactive learning applications and workstations
- Easily operable via a variety of software interfaces
- Projection of 2D and 3D objects
- Integration to a multi projection system
- Passive or active cooling
- Data transmission via ethernet

APPLICATIONS

- Pick-and-Place
- Logistics
- Workstations
- Assembly assistance
- Quality control
- Optical work instructions

SYSTEM SPECIFICATIONS

Laser source
Wavelength
Output power
Laser class (on EN 60825)
Fan angle
Accuracy ⁽²⁾ (depends on projection distance)
Working distance (fixed focus at 2 m)
Frequency of projection
Weight
Dimensions (L x W x H)
IP protection class

Red or green laser diode

520 nm	638 nm
5 mW	5 mW
2M	2M

60° x 60°
± 3 mm ⁽¹⁾
1 m up to 3 m
Max. 50 Hz (depends on the projection)
3.4 kg (plus ca. 1.4 kg for separate power supply)
314 x 111 x 96 mm (137 mm incl. fan) 12.36 x 4.37 x 3.77 in (5.39 incl fan)
IP54

SOFTWARE / HANDLING

Software
SDK
Generic file format

ZLP-Suite
C++, C#, Python VBA (Excel, PowerPoint)
HPGL / HPGL 3D

ACCESSORIES

Optional accessories

Remote control, power supply, glass reflector, mounting, binder plug
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ELECTRICAL SPECIFICATIONS

Operating voltage
Protection class electrical
Interfaces
Power consumption (typical)

24 VDC ±10%
3 (protective low voltage)
1. Ethernet TP
40 W - 70 W (max. 100 W)

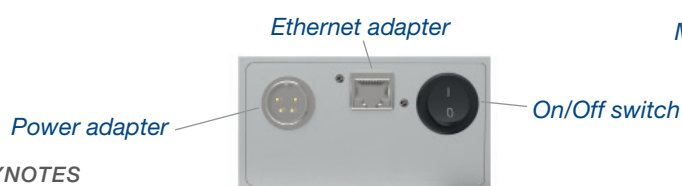
AMBIENT CONDITIONS

Operating condition
Storage temperature
Humidity (max.)

+5 °C up to +40 °C (with passive cooling) +5 °C up to +45 °C (with active cooling)
-5° C up to +60 °C
<80% relative, non-condensing

Working range in relationship to the mounting height (in mm)
1.000
1.500
2.000
2.500
3.000

Optical angle 60° (in mm)
1.155
1.732
2.309
2.887
3.464



KEYNOTES

⁽¹⁾ At a distance of 2 m

⁽²⁾ At 32° C block temperature, optical angle 60° and 0° incline

