# Low power YAG- and diode lasers

## *Low power diode pumped YAG- and diode laser*




The dimensions of these small laser diode ±modules and YAG- lasers are typically 12 mm diameter and approximately 40 mm in length. Special optics can be used to create contours such as lines, crosses, grid patterns etc. Using an additional galvoscanner any contours can also be created software controlled.

Because of the low output power, these lasers are usually not active temperature stabilized. They find a wide range of industrial applications, for example as pilot- or positioning lasers. For this purpose, points, lines, circles and dot- or line grids can be created statically using appropriate optics. Using a galvoscanner (optional) complicated contours, created by software, can also be created and be projected. This makes the modules also suitable for demanding positioning applications. Further applications can be found in the field of lighting technology and also as an excitation beam source for optical spectroscopy, for example in fluorescence measurements. All lasers can also be digitally modulated, typically up to approximately 5 kHz.

*Some technical data:*

| *Wavelength [nm]** | *405* | *450* | *520* | *532**** | *640* | *650* | *780* | *808* | *830* | *850* | *980* | *1064 **** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Maximum power [mW]*** | *10* | *5* | *4* | *5* | *10* | *10* | *5* | *5* | *5* | *5* | *5* | *5* |

* Other wavelengths are possible. The wavelengths of the diode lasers are specified as ± 5 nm.
** These values are a guideline. Higher output powers are possible.
*** These wavelengths belong to YAG lasers, all others belong to diode lasers.

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