

### Diode pumped OEM – YAG laser systems as a stand alone system or for integration into machines and systems



OEM-system with software-controlled galvoscanter. The controls are located on the front panel of the 19" housing. At a system integration they can also be replaced by the corresponding control elements of a higher-level control system.

Due to their modular structure and technical properties such as short pulse length and high peak pulse powers, they can be used in a variety of ways. In the scientific sector, for example, for plasma generation or the time resolved measurement of luminescence. Together with a software-controlled galvoscanter (picture above) the laser radiation could be directed selectively to certain areas of the sample or workpiece und thus a location- and time-dependent measurement of luminescence etc. can be made possible.

In the industrial sector they can be used for laser material processing as well as in applications where photochemical or photochemical processes are triggered by the laser light.

#### Some technical data:

| Product name / wavelength | Average power * | Pulse peak power * | Pulse repetition rate | Pulse length (approx.) | Cooling |
|---------------------------|-----------------|--------------------|-----------------------|------------------------|---------|
| LA-YAG-P-10-1064nm        | 10 W            | > 4 kW             | 20-30 kHz (typical)   | 10 ns                  | Air     |
| LA-YAG-P-4-532nm          | 5 W             | > 3 kW             | 20-30 kHz (typical)   | 7 ns                   | Air     |
| LA-YAG-P-1-355nm          | 1 W             | > 1 kW             | 20-30 kHz (typical)   | 3 ns                   | Air     |

\* Higher power is possible, but water cooling is then necessary.