

AIO

ALL IN ONE laser systems

Simply compact

The AIO laser is the most compact Q-switched DPSS laser. AIO laser systems are offered in a robust and lightweight monoblock design and enable a wide variety of marking applications that are also suitable for micromachining.

The „All In One“ monoblock design eliminates the need for external optical fiber and other sensitive cable connections for system integration. The easy and safe integration, even in confined spaces, is another advantage of the AIO laser system.

Easy integration

More than one USB or network connection to a standard PC is not required to control the AIO laser.

The AIO - laser combines resonator and laser source, so that both the rack and the fiber, which is usually the connecting piece between optics and supply unit, are omitted.

The distance to the workstation can therefore be almost arbitrary and the marking process can easily be spatially decoupled from the control.



Compact, robust housing
in lightweight monoblock design



Two safe inputs up to PL e (Cat. 4)
according to EN ISO 13849-1



Reduced
installation effort



User-friendly software
under Windows 7 / 8 / 10

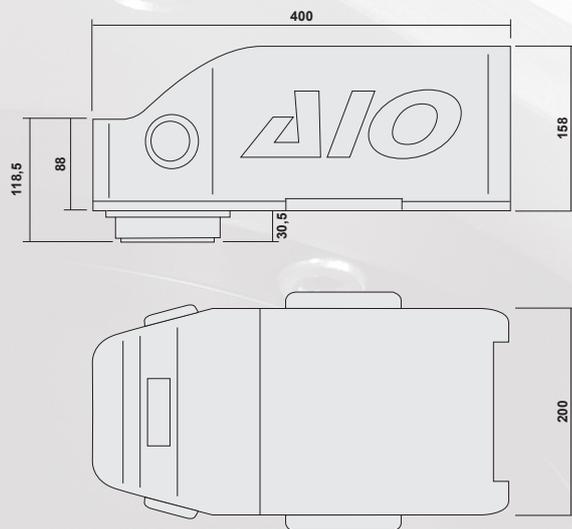


Fully integrated, ultra-compact
Q-switched DPSS laser



Galvanically isolated interfaces
(EAs, USB, Ethernet)





	AIO P	AIO M	AIO G	AIO G+
Laser class	4	4	4	4
Wavelength	1064 nm	1064 nm	532 nm	532 nm
Pulse rate	10 KHz to 100 KHz	10 KHz to 100 KHz	10 KHz to 100 KHz	1 KHz to 100 KHz
Pulse-width	15 to 70 ns	7 to 35 ns	10 to 50 ns	2 to 10 ns
Beam quality	< 1,5	< 2	< 2	< 1,5
Electrical supply	24 V DC max 14 A (power supply optionally available)			
Cooling	Air-cooled by integrated thermostatic fan			
Weight	12 Kg Power supply unit (optional) 1.3 Kg			
Hardware interfaces	USB, Ethernet, 3 stepper motor axes, galvanically isolated interfaces (EAs, USB, Ethernet), two safe inputs up to PL e (Cat. 4) according to ISO 13849-1, Optional ProfiNet/ProfiBus integration			
Character sets	Format: TrueType Fonts (filled and unfilled), Single Line Fonts, PostScript Fonts Orientation: freely rotatable Character spacing: freely selectable Circular arc writing: freely scaleable and adjustable			
Codes	Strichcodes: Code 2/5, Code 3/9, Code 128, EAN 8/13, UPC 2D Codes: DataMatrix, PDF 417, QR-Code, Code 16K Insgesamt mehr als 60 verschiedene 1D und 2D Codes			
Further features	Flexible serial numbers, date and time functions Freely programmable script interface for processing variable data from subroutines Text and data transfer from databases (ODBC) Excel tables TCP - Client User-defined masks Extensive program help and functions			
Options	Programmable X-, Y-, Z-, rotary axis (up to 3 simultaneously possible) Additional laser diode as optical focusing aid Extraction systems Profinet / ProfiBus Remote control via external command box (e.g. start/stop, emergency stop)			