

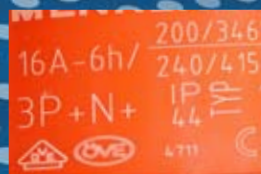
DP2UV

Basic system 2 W

With the innovative diode laser DP2UV FOBA expands its product portfolio into the ultra violet range. The novel resonator design guarantees an efficient laser power in the medium range of 2 W with a wavelength of 355 nm. The typical pulse duration of 20 ns at a beam diameter of 20 µm now allows „cold marking“ predominantly by photochemical reactions. High quality markings with reduced material damage are the highlights e.g. in marking of flame protected plastics and glass.

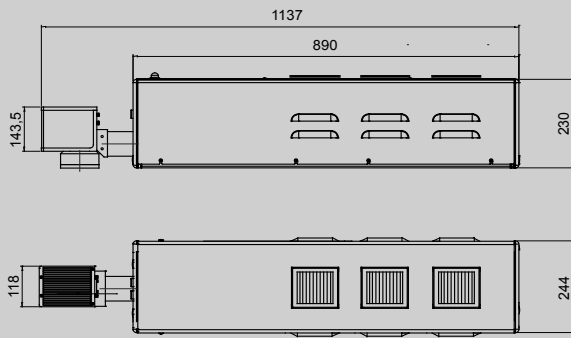
Advantages

- Long working life of special laser crystals means little servicing
- Completely air-cooled lasers
- Excellent laser beam quality with small beam diameter
- Output power 2 W
- Single-phase 230 V mains connection

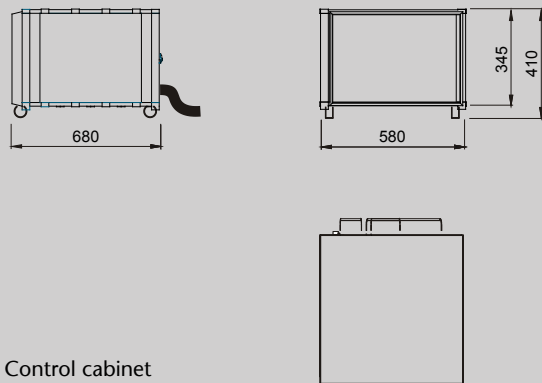


DP2UV

Basic system 2 W



Laser head with standard scan head and lens



Control cabinet

System

Marking field	140 x 140 mm ² (f=214 mm)
Marking speed	up to 5000 mm/s up to 500 characters/s
Line width	typically 20 µm

Laser

Laser type	Nd:YVO ₄ , 355 nm, diode pumped
Power (CW)	typically 2 W
(QS)	typically 5 kW/pulse (20 kHz)
Power stability	+/- 1 % (CW) +/- 1.5 % (QS)
Output modes	Continuous wave operation (CW) Pulsed operation (QS, 0.4 - 100 kHz)
Pulse energy	0.1 mJ (20 kHz)
Pulse width	< 20 ns

Control

PC	CompactPCI-PC
Operating system	MS Windows XP
Laser control	FOBAGRAF with Import functions of plt/dwg/dxf/ai/jpg/tif/pcx/bmp ...
Interfaces	serial, digital I/O, Ethernet, USB, Profibus

Installation

Electrical	1/N/PE, AC 110-230 V, ± 10%, 50/60 Hz
Power consumption	typically 400 W
Cooling	Air
Temperature	15 - 40 °C
Humidity	90 % (up to max. 20 °C) 30 % (up to max. 40 °C) non-condensing
Weight	Laser head approx. 25 kg ¹⁾ Control cabinet approx. 60 kg
Degree of protection	Control cabinet IP43 Laser head IP 20
Safety	Class IV Laser

Options

Marking on the fly	for marking moving workpieces
19"-Racks	for integration
Changeable lens	160 mm/511 mm
High-speed-scan heads	

¹⁾ without F-Theta lens

FOBA®

Laser Marking + Engraving

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