

[Get in contact with us](#)

We use cookies in order to provide you with the best possible information available on this website. If you continue surfing on this website without changing your browser settings, we will assume that you agree with all the cookies used. [Further information](#)

ok

FOBA[®]
Laser at your service

UV laser marker V.0020-uv

UV laser marker for high-contrast markings on highly sensitive products

The FOBA V.0020-uv ultraviolet marking laser applies high-contrast markings on sensitive products. As the vector scanning laser colors the product's surface photo-chemically, the heat that results from laser marking is so little that even highly sensitive products and materials remain undamaged: from aircraft cables and translucent or colored tubes for various industries through medical plastics for invasive applications or flame-resistant plastics for electronic housings to glass.

With a typical pulse duration of 20 ns and a beam diameter of 10 μm , V.0020-uv only colors the surface (instead of foaming the material) so that the product itself remains undamaged. This is how permanent laser marks that are capable of sterilization can be applied on medical technology products such as catheters or insulin pumps, and this is also how filigree and brilliant laser marks can be applied on glass without breaking it. With V.0020-uv now also silicones or white polyamides can be laser marked. It is this capability of marking highly sensitive and previously unmarkable materials damage-free that makes FOBA's **UV laser marker** a pioneering one.



Marking features

Marking heads	SS10 and SS7 with four focus lenses (f =103 mm/ 160 mm/ 214 mm/ 511 mm)
Marking fields*	From 64 x 76 mm ² (SS10, f = 103 mm) to 375 x 375 mm ² (SS10/ SS7, f = 511 mm)
Marking speed*	Up to 5,000 mm/s, up to 500 characters/s
Line width	From 10 µm (depends on focusing optic)

Laser

Type	Pulsed Nd:YVO ₄ laser (Vanadat), diode-pumped, wavelength - 355 nm
Laser class	4 (as per DIN EN 60825-1)

User interfaces

PC software	FOBA MarkUS or FOBA Draw (on separate, external, optional Windows 7 PC)
Interface	Ethernet

Supply

Electrical requirements	L/N/PE 100 – 240 VAC, 50/60 Hz
Power consumption	Typically 400 W
IP rating	IP20 marking unit, IP21 supply unit
Cooling	Air-cooled
Temperature	15 – 40 °C 59 - 104 °F
Humidity	90 % (max. 20 °C 68 °F), 30 % (max. 40 °C 104 °F), non-condensing

Weight Marking unit approx. 25 kg**, supply unit approx. 20 kg

Other options

Vision alignment system Intelligent Mark Positioning (IMP) for the precise position detection of parts/to-be- processed areas and automatic alignment of marking/engraving/finishing

Laser pointer

Interface Profibus, PROFIBUS, EtherCAT* (with MarkUS 2.12)

**application dependent **without F-Theta lens*

Main fields of application

Automobile and aircraft construction, medical technology, electronics, extrusion;

Marking of sensitive materials: glass, ceramics, flame-protected plastics, plastics and materials for invasive applications

Your product benefits

- Safety and integrity for sensitive and critical materials
- Hygiene and sterility for UV laser marked medical plastics
- Filigree, high-contrast markings
- Solvent-free and additive-free marking of plastics
- Low-maintenance thanks to long-lasting diodes
- Economic due to efficient air-cooling



▼ V.0020-uv product datasheet

▼ Product datasheet IMP / PS / HELP

▼ Laser purchasing guidelines

Further information

→ [Laser marking](#)

→ [Application examples](#)

→ [Application Case Study "Silicone Elastomers"](#)

→ [FOBA Remote Service](#)

[Contact](#)

[Facebook](#)

[Twitter](#)

[Xing](#)

[YouTube](#)

[LinkedIn](#)

[Youku](#)

[Instagram](#)