



FOBA V.0020-uv

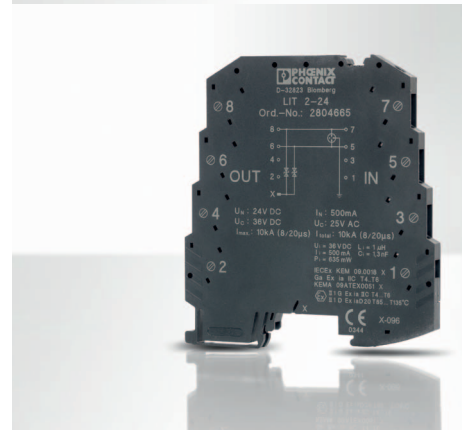
UV laser marker for high-contrast marks on highly sensitive products

FOBA's V.0020-uv marking laser achieves high-contrast marks on sensitive materials using an ultraviolet wavelength. Because the material's surface is photo-chemically altered, very little heat is transferred to the material and it remains virtually undamaged and unchanged. Products made from highly sensitive or unique materials such as aircraft cables, translucent or colored tubes for various industries, medical plastics for invasive applications, flame-resistant plastics for electronic housings and even glass can be marked safely with high resolution and contrast.

Through the photo-chemical effect, the FOBA V.0020-uv creates a contrasting and permanent color change on the surface of the processed product instead of disrupting or displacing the material allowing the product itself to remain undamaged. Laser marks that are resistant to typical sterilization processes can now be achieved on medical devices, such as catheters or insulin pumps, and filigree and brilliant laser marks can be applied on glass without breakage. With the V.0020-uv, even silicones or white polyamides can now be laser marked. Marking highly sensitive and previously un-markable materials without damage makes FOBA's UV laser marker an industry pioneer.

Your product benefits

- **Safety and integrity** for sensitive and critical materials
- **Hygiene and sterility** for UV laser marked medical plastics
- **Filigree and high-contrast markings** with high resolution
- **Solvent-free and additive-free marking** of plastics
- **Economical and low-maintenance** with efficient air-cooling and long-lasting optical components



*Dispenser with color change
Cannula for invasive use with
laser mark that can be sterilized
Relay housing with color change*



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Technical Data

Marking features

Marking heads	TS10 and SS7 with four focus lenses (f=103 mm/160 mm/214 mm/511 mm)
Marking fields*	From 64x76 mm ² (TS10, f=103 mm) to 375x375 mm ² (TS10/SS7, f=511 mm)
Marking speed*	Up to 5,000 mm/s or 500 characters/s
Line width	From 10 µm (depends on focusing optic)

Laser

Type	Pulsed Nd:YVO ₄ laser (Vanadate), diode pumped, wavelength 355 nm
Laser class	4 (according to DIN EN 60825-1)

User interfaces

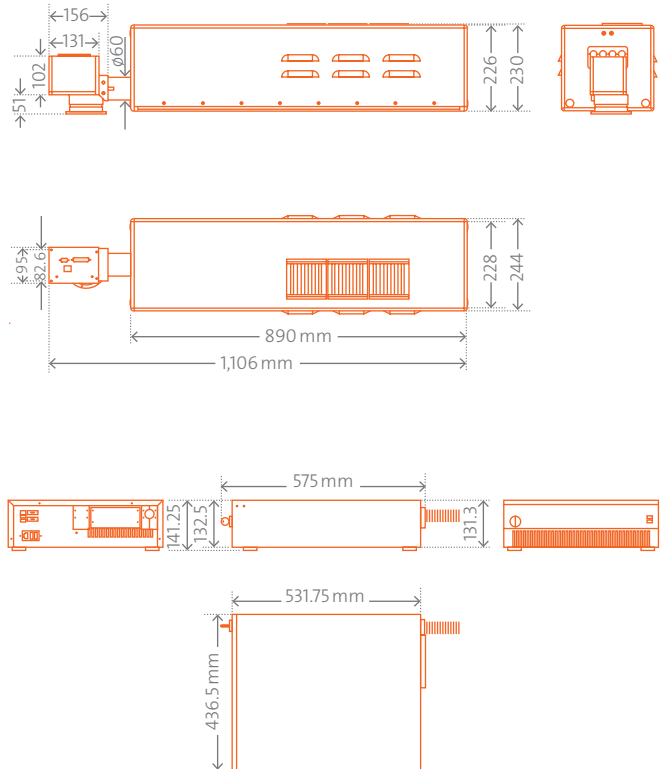
PC software	FOBA MarkUS or FOBA Draw (on separate, external, optional Windows 7 PC)
Interfaces	Ethernet interface

Supply

Electrical req.	L/N/PE 100–240 VAC, 50/60 Hz
Power consumption	Typically 400 W
IP rating	→ Marking unit IP20 → Supply unit IP21
Cooling	Air-cooled
Temperature	15–40 °C
Humidity	90 % (max. 20 °C), 30 % (max. 40 °C) 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



Marking unit (marking head SS7 and lens)

Supply unit

* Depends on the application ** without F:Theta lens

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