

SPA2 NANO UV – efficiency you can see

Overview:

- Maximum marking precision: UV laser technology for high-contrast, damage-free and precise labelling on a wide range of materials such as ABS, PET and many more
- Sustainable efficiency: consumable-free operation and low energy consumption reduce costs and environmental impact
- Future-proof and versatile: compatible with Industry 4.0 standards, ideal for complex production lines and changing requirements
- User-friendly: Intuitive operation via touchscreen, quick integration and easy maintenance thanks to online tutorials



Contents:

<i>Introduction to SPA2 NANO UV laser technology</i>	S. 2
<i>Optimal application areas for NANO UV</i>	S. 3
<i>A wide range of possible applications: practical examples</i>	S. 4
<i>Technical specifications of the NANO UV</i>	S. 5
<i>rental concepts</i>	S. 5
<i>Fast / Flexible / Reliable</i>	S. 6
<i>Contact and customer service</i>	S. 6

Introduction to SPA2 NANO UV laser technology:

Macsa ID's **SPA2 NANO UV laser technology** sets new standards in industrial coding and marking. With innovative UV laser technology developed specifically for high-contrast, precise and damage-free marking, the SPA2 NANO UV offers a versatile solution for a wide range of materials, including ABS, PET, glass and BOPP films. This technology ensures consistently high marking quality, even on delicate or challenging surfaces, while minimising surface damage such as burrs or yellowing. A compact and future-oriented solution, the SPA2 NANO UV integrates seamlessly into existing production lines and meets the requirements of modern manufacturing processes. With a focus on sustainability, the laser offers consumable-free operation, reduces energy consumption and eliminates the use of solvents, making it not only ecologically but also economically convincing. The technology is therefore making a significant contribution to reducing the environmental footprint of industrial production. The SPA2 NANO UV combines maximum precision with user-friendliness. An intuitive touchscreen and innovative software solutions such as MarcaTouch OS enable easy operation, quick set-up and minimal maintenance.

Optimal application areas for the SPA2 NANO UV:

The NANO UV is versatile and is ideal for:

packaging industry	Marking of PET, PP and LDPE bottles and BOPP films
Cosmetics and pharmaceutical	Precise labelling of products such as bottles and pigeons, tablet containers and glass materials
electronics and automotive	Markings on printed circuit boards (PCB), microchips and electrical covers, labelling of windscreens, light switches and screws
medicine and healthcare	Marking on stainless steel for permanent legibility and traceability, precise coding of test materials made of PP, silicone or other plastics

Examples of use:



A wide range of applications:

The SPA2 NANO UV offers impressive versatility and meets the highest demands in industrial marking. With its advanced UV laser technology, it ensures high-contrast, precise and damage-free results on a wide range of materials and surfaces. Its innovative design and powerful features make it the ideal solution for modern production lines that require efficiency, flexibility and reliability. Particularly noteworthy is its environmentally friendly technology, which does not require consumables and minimises energy consumption. This not only reduces operating costs, but also helps companies achieve their sustainability goals. The SPA2 NANO UV combines precise marking with a resource-saving operation, thus helping to optimise industrial processes. Its intuitive operation, quick integration and minimal maintenance requirements make the SPA2 NANO UV a future-oriented tool that can be easily adapted to changing requirements.



lens:

- Focuses the laser beam to the exact size
- Is crucial for print quality

Technical specifications of the SPA2 NANO UV:

Technical specification	SPA2 NANO UV
Performance	5W
wavelength	355 nm
pulse length	< 18 ns
cooling	Luft
energy supply	100–240 V AC, 50/60 Hz, 1 Phase + N
Power consumption	700 VA
operating temperature	10 °C - bis 35 °C
Humidity	< 95 %, non-condensing
labelling area	from 20 x 20 mm bis 290 x 290 mm (depending on lens)
focal lengths	95 mm bis 580 mm
Dimensions (laser head)	220 x 200 x 617 mm
Weight	net weight 26 kg / gross weight 29 kg
control	10,1" capacitive touch screen
marking head	CO2- sealed laser tube wavelength: 10,6 µm RF technology
Software	MarcaTouch OS 2.0, Scanlinux, PC-Software Marca
communication protocols	TCP/IP, Profinet (optional), OPC-UA (optional), Ethernet/IP (optional)
Special features	<ul style="list-style-type: none"> - Rotatable head for flexible integration - Templates for QR codes, barcodes, data matrix

rental concepts:

The attractive alternative to buying. The principle: possession instead of ownership.

Reduce the capital outlay for your capital goods. You can easily and economically rent our labelling systems. This does not tie up your capital and does not require any depreciation.

- You invest and still remain liquid
- They are flexible with the times and always use modern and powerful equipment
- You set the instalments with transparent costs individually according to your requirements

Consumables and spare parts:

Standardised or customised our large portfolio of consumables for all technologies, including new in-house developments, and the close technical coordination between our development departments for devices and consumables, leads to:

- optimal running properties
- a wide and constantly growing portfolio, also according to customer requirements
- high quality and reduced consumption

Fast / Flexible / Reliable:

At SIGTECH AG, three keywords are at the heart of everything we do: speed, flexibility and reliability. These principles are reflected in every aspect of our work, from the development of innovative labelling systems to customer service.

- Our speed is not only manifested in the performance of our products, but also in our responsiveness to customer enquiries and market requirements.
- Flexibility is another cornerstone of our corporate philosophy. The world is constantly changing, and so are our customers' needs. That's why our systems are designed to integrate seamlessly into any production line and support a wide range of applications.
- Reliability is the foundation on which SIGTECH AG is built. Our customers trust that our machines will work precisely and without downtime even under the hardest conditions.

Our team is at your disposal for advice, service and support. Contact us for a personal consultation or visit our website for more information and technical support.



SIGTECH AG – Your partner for innovative labelling solutions. Discover the possibilities of the SPA2 NANO UV and revolutionise your product labelling.

Date 01/2025