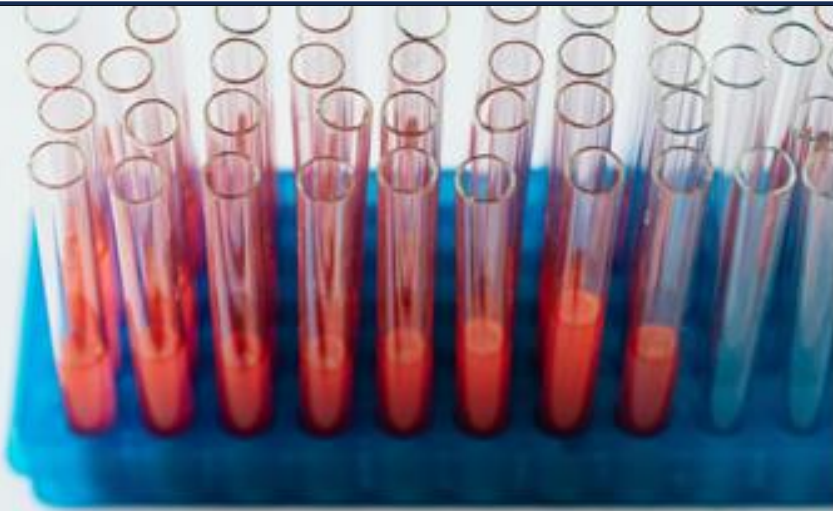




VULQ1-S Multibeam Laser Marking Systems

On-line and on-the-fly serialization of medical devices



Accelerate your application:

- High speed marking on elastomer or painted aluminum surfaces

▶ VULQ1-S FLASH series



Enhanced traceability – direct and permanent marking

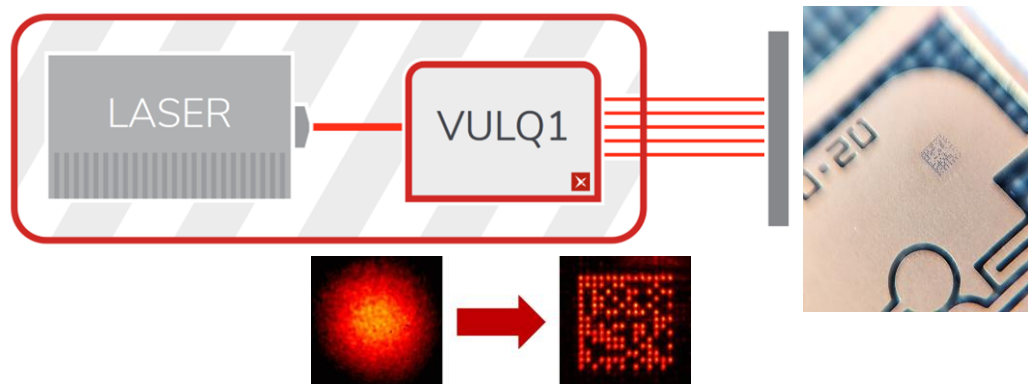
High precision, pollution-free marking

Straightforward installation on production line with the patented FULL-STAMP marking



VULQ1-S FLASH series deliver markings in a single laser pulse, millions of times faster than other marking solutions.

Laser marking with FLASH series - Principle



One laser pulse
=
One marking

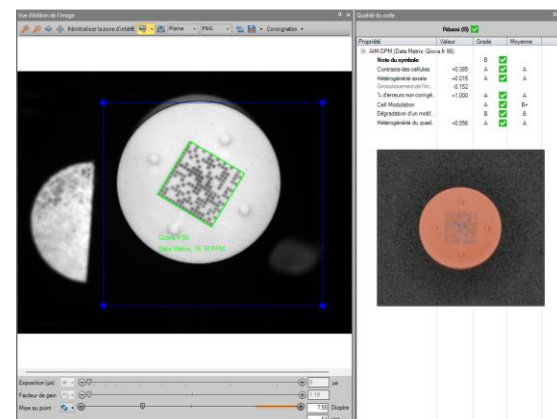
- Market leading marking time
- Market leading marking rates
- Ideally suited to small codes

Need and context

- Unitary identification of multi-use medical devices (blister packs, cartridges)
- Rapid ramp-up of production lines

VULQ1 advantages over current solutions

- **Easy integration: one laser pulse = one marked code**
- Speed: 20 unique codes per second for a DM14x14 GS1
- No debris: avoids unplanned line stoppages



Costs vs. Profits

- Gain in product quality and confidence to win new markets
- 5x more data stored to enable true individual traceability in production
- Minimized line retrofitting costs with high deployment flexibility

Product line	Model	Max Energy	Max Power	Pulse duration	Wavelength	2D codes (Datamatrix, QR) marking rate		Materials
						Serialization	Batch	
VULQ1-S FLASH series	NIR	40mJ	40W	ns	1064 nm	10Hz	2000Hz	Metals, coated materials, polymers, moulded compound
	VIS	40mJ	24W	ns	532 nm	20Hz	2000Hz	Polymers, films, multilayers, elastomers

