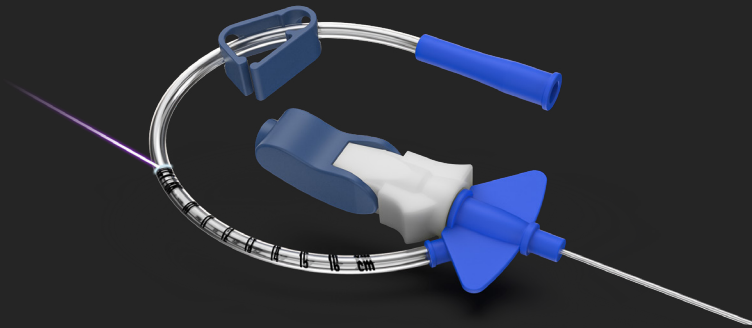


LINEAR UV LASER SYSTEM

The Linear UV Laser System offers high precision and speed for coding/marketing, micro-machining, texturing and drilling applications. Its versatility and marking on-the-fly capability enable high-volume, permanent markings on plastics, glass, metals, ceramics, PCBs, making it perfect for traceability and identification on sensitive materials.

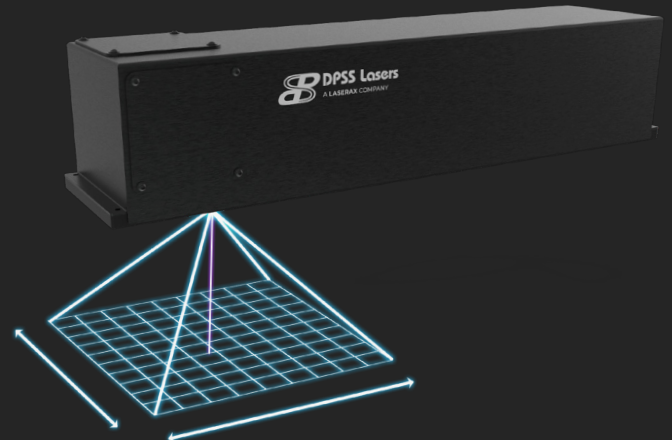
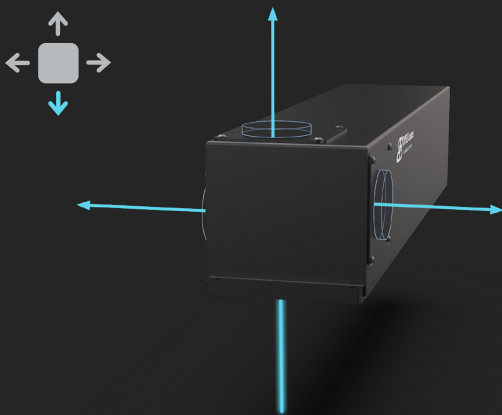


FASTEST UV LASER IN THE INDUSTRY

Our UV laser system delivers industry-leading speed and precision for high-performance manufacturing in demanding industries. Its high repetition rate and short pulse duration allow high-contrast and delicate marking with minimal heat input, making it ideal for high-throughput operations.

READY FOR MARKING ON THE FLY

Our easy-to-use marking software combined with a high-speed galvo scanner enables consistent marking on moving parts. For MOTF serialization, it can communicate with other production devices and be integrated into automated production lines.



LASER PROCESS VERSATILITY

Thanks to its flexible process parameters, our UV laser system can perform non-thermal marking, texturing and micro-machining through 4 output orientations (top, bottom, left or right). This versatility makes it ideal for a wide range of components in the medical, aerospace and electronics industries.

LARGEST FIELD OF VIEW

The system's wide field of view and advanced lensing adapt to demanding spot size and work area needs, from fine features to large-scale processing (up to 1.05m x 1.05m). This flexibility enables the processing of multiple and large parts, accelerates deployment, minimizes changeovers, and future-proofs the cell as requirements evolve.

LASER SPECIFICATIONS

	UV ns	UV ps	UV fs	IR fs
Nominal Laser Output Power (Watts)	1, 2, 3, 5, 10, 20, 40, 55	3, 10, 20, 50	5, 10	10, 20, 30, 40, 50, 60, 70, 80
Power Consumption	900 W - 2000 W			
Laser Type (Diod Pump Solid State)	DPSS UV			DPSS IR
Supply Voltage	90 - 240 VAC			
Pulse Energy	30 - 500 uJ	50 - 200 uJ	20 - 200 uJ	50 - 200 uJ
Pulse Width	7 - 50 ns	2 - 10 ps	270 - 400 fs	
Wavelength	355 nm		343 nm	1030 nm
Beam Quality	TEM 00 <1.1			
Laser Safety Class	Class 4 laser product: CSA-E60825-1:15, 21 CFR 1040.10, IEC 60825-1			
Cooling	Water (Air Cool Optional < 10 W)			
Laser Source MTBF	15 000 - 20 000 Hours			
Barcode Validation (optional)	External			
I/O	Hardware IOs (DB37)			
Communications	TCP/IP or RS232			
Dimensions (L x W x H)	914 x 269 x 210 mm	1000 x 305 x 203 mm	1000 x 305 x 254 mm	
Weight	20 kg - 40 kg	30 - 50 kg	50 - 90 kg	
Environmental Conditions	10 °C to 35 °C			
Approvals	CE			
Cooling System Dim. (L x W x H)	287 x 224 x 389 mm	287 x 224 x 389 mm	592 x 377 x 650 mm	
Cooling System Weight	9 kg		40 kg	
Nominal Spot Size	10 - 100 um		10 - 100 um	30-150 um

LENS SPECIFICATIONS

	UV ns	UV ps	UV fs	IR fs
Effective Z-Focusing Range (3D heads)	Typical +/- 15mm			

	F-Theta (Flat Field Lens)								Non Flat						
Focal Length (mm)	F-56	F-103	F-250	F-330	F-511	F-810	F-1117	F-1470	150	200	250	300	400	500	1000
Max Scanning Speed	Up to 16 m/sec														
Nominal Spot Size (um)	7	10	20	25	35	60	80	100	16	20	25	30	40	50	100
Nominal Marking Distance (mm)	122	220	388	399	674	1063	1231	1430	150	200	250	300	400	500	1000
Effective Z-Focusing Range (3D heads)	+/- 15 mm														
Nominal Marking Field Size (mm)	16x16	50x50	160x160	205x205	305x305	445x445	800x800	1050x1050	29x29	42x42	61x61	80x80	125x125	170x170	350x350
Depth of Focus (mm)	0.1	0.25	1.2	2	5	12.5	25	42	0.85	1.5	2.4	3.5	6	9.5	38