

EXAMPLE OF A MULTISPOT LASER PLATFORM

Single-mode fibered lasers

	PDM+	PDM 4+	PDM-pico adjust
Pulse duration	2nsec to CW	2nsec to CW	3psec to 6nsec
Average power	Up to 3.2W	Up to 10.5W	up to 500mW
Wavelength (nm)	980;1064	980 and 1064	980 or 1064nm
Repetition rate	From single-shot to 250MHz	From single-shot to 250MHz	From single-shot to 20MHz
Command interface	TTL/LVTTL	TTL/LVTTL	TTL/LVTTL
Beam quality	Single-mode	Single-mode	Single-mode

InGaAs IR Camera

Captor	320x256µm or 640x512µm
Dynamic range	140dB
Interface	USB (software included)

Electrical

Voltage	220V/110V
Intensity	16 A

Optical column

Transmission typ.	Up to 92% at 980 and 1064 nm
Signal type	Adapted for single-mode or multimode signal
Compatibility	Visible and IR
Light system	Optimized fibered lighting system
Weight	1.8kg

Positioning system

	Bare fiber positioning system	Microscope positioning system
Axes number	3	3
Travel range	25mm	50mm
Resolution	0.1µm	0.05µm
Repeatability	-	0.1µm
Max velocity	50 m/s	25mm/s

High-transmission objectives

Objective	50X	20X	5X	2.5X
Type	IR optimized	IR optimized	Non-IR optimized	IR optimized
Typ. spot size (µm)	1.5µm*	3µm*	12µm	25µm
Field (µm)	180x140	360x280	1500x1500	3600x2800
Work. distance (mm)	10	12	36.1	28
Typical transmission (with microscope)	>70%	>80%	>80%	>80%

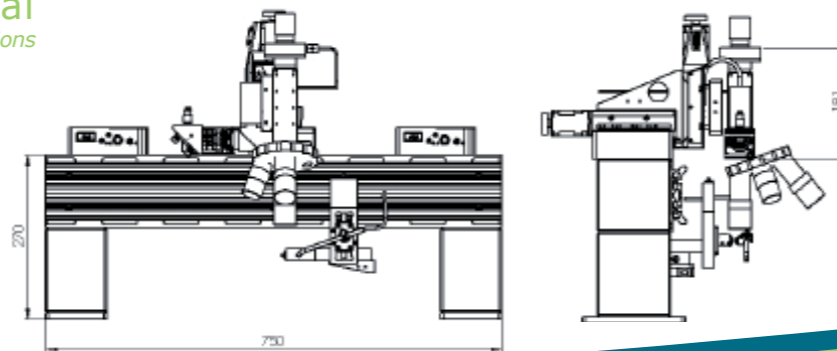
*Better performances with ALPhANOV ultra-high resolution objectives

Options:

- Certified laser protection enclosures
- Integrated PDM rack system
- Ultra high resolution objectives

Mechanical

indicated dimensions



MULTISPOT LASER PLATFORM

CONTROL WHERE YOU INJECT THE LASER BEAM

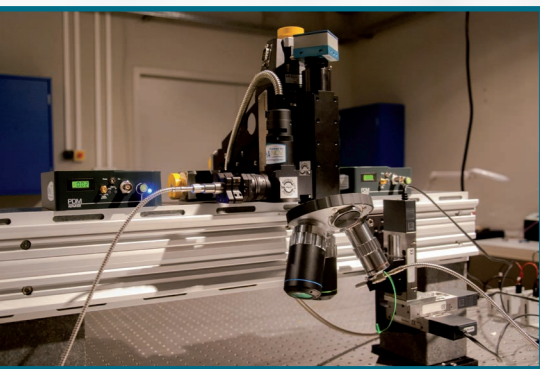
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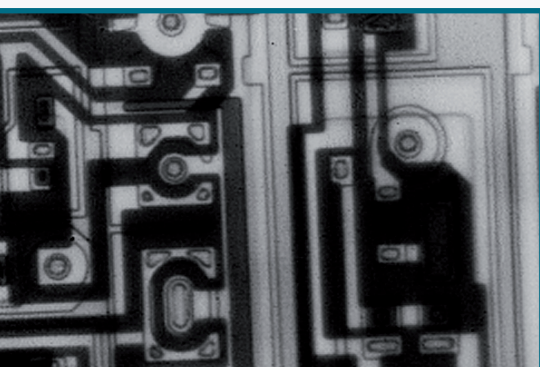
Simultaneously observe the electrical paths through silicon and visualize the laser spots with high transmission

Key features

- Multispot single-mode laser system (through the microscope and from the side)
- High-transmission optical system at 980nm and 1064nm (>85%)
- IR/visible light system and camera to simultaneously observe paths through silicon and laser spots
- Spot size through the microscope : down to 1.5 μ m
- XYZ motorized stage with high resolution
- Gravit frame for high stability



Multispot laser platform



Paths observed through 300 μ m Silicon



Optional safety enclosure

