

SCAN

Micromachining scan head

The next step in 3D material processing

Designed to fulfill the need for accuracy and speed required in ultrafast material micro-processing, SCAN is a machining head using a sophisticated moving mirror/lens technology for three dimensional material processing.

SCAN is available with various focal lenses and apertures. Very low power consumption and heat generation improves thermal drift, while reduced motor weight enables acceleration ramps 20% higher than traditional solutions.



Applications

Industry:

- > Microelectronics
- > Micromachining

Medical:

- > Medical Device Manufacturing

Key Features

- > Designed for ultrafast laser
- > High repeatability
- > Low thermal drift
- > High tracking accuracy

Specifications

	SCAN 10	SCAN 15	SCAN 20		
Scanner Aperture	10 mm	15 mm	20 mm		
Angular Excursion	640 mrad				
Wavelengths Available	343 nm - 355 nm - 515/532 + 1.030/1.064 nm - 10.600 nm				
Minimum Scanning Tracking Error	80 μs	110 μs	160 μs		
Maximum Scanning Speed	64 rad/s				
Z Scan	Optional				
Z Scan Excursion	600 mm x focal length				
Focal Length ¹	50 mm	60 mm	100 mm	160 mm	255 mm
Minimum Spot Size (M ² = 1.1, 1030 nm, Scan 20)	10 μm	12 μm	16 μm	22 μm	35 μm
Field Scanner	12 x 9 mm ²	23 x 13 mm ²	70 x 50 mm ²	120 x 70 mm ²	200 x 165 mm ²
Z Field (with Z module option)	0,8 mm	1 mm	3 mm	7 mm	20 mm

Utilities

Dimensions	12,6 x 12,1 x 14,4 cm
Interface	Ethernet - GigE RJ45
Power Supply	100-240 VAC / 0,4 A

¹ Telecentric F-Theta and F-Theta lenses. Cutting nozzles available upon request.

Compatibility



Satsuma



Tangor