

SCAN



Micromachining scan head

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.

- # 1 Designed for ultrafast laser
- # 2 High repeatability
- # 3 Low thermal drift
- # 4 High tracking accuracy



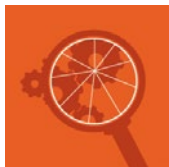
Specifications

	SCAN 10		SCAN 15		SCAN 20	
Scanner aperture	10 mm		15 mm		20 mm	
Angular excursion			640 mrad			
Wavelengths available			343 nm or 515 nm + 1030 nm			
Minimum scanning tracking error	80 μs		110 μs		160 μs	
Maximum scanning speed			8 m/s (with 160 mm F-Theta lens)			
Z scan			Optional			
Z scan excursion (mm)			600 x focal length ² (in mm)			
External size (W x H x D)			14 x 13 x 12 cm			
Connection PC/PLC - Scanner			Ethernet cable			
Power supply			12V DC - 1A			
Focal length*	60 mm	100 mm	160 mm	255 mm	330 mm	420 mm
Spot size (μm)	0,002 x Beam quality (M ²) x Wave length (in nm) x Focal length (in mm) / Diameter of the beam before focusing (in mm)					
Field scanner	20x20 mm	40x40 mm	70x70 mm	100x100 mm	150x150 mm	210x210 mm

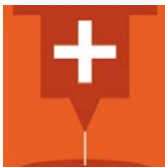
* Telecentric F-Theta and F-Theta lenses. Cutting nozzles available upon request.



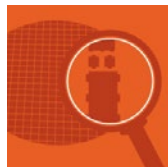
Applications



MicroMachining



Medical Device Manufacturing



Microelectronics