



microscan

MICROSCAN EXTENSION

MSE-G1

LASER
SCANNING
WITH BEAM
DIAMETERS
BELOW 5 μ m IN
IR + VIS

EXTENSION
COMPATIBLE
WITH MOST
GALVO
SCANNERS

EASY
USABLE
WITHOUT
ADDITIONAL
COMPONENTS

MICRO SPOT SCANNING FOR HIGH RESOLUTION APPLICATIONS

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MICROSCAN EXTENSION HIGH RESOLUTION LASER SCANNING

With the Microscan Extension MSE, Pulsar Photonics offers a simple but powerful extension for each galvo scanning system. By simply replacing the conventional lens with the MSE-G1, the user can expand his system to a microspot scanning system. The combination of a galvanometer scanner and MSE-G1 allows a laser scanning with focus diameters of less than 5µm using an IR or VIS laser. Applications of the MSE-G1 can be found in micro ablation, cutting of transparent materials, micro drilling or other applications where very small laser spots or high intensities are needed. If needed Pulsar Photonics can provide a full microscan system with scanner, coaxial camera and software.

TECHNICAL DATA

- Max. Dimensions (LxHxW): 278mm x 185mm x 185mm
- Mount Thread type: M85x1 (Standard Galvoscanner)
- Scan field size: typ. 500µm x 500µm
- Wavelength: IR (1030-1070nm) + VIS (515-532nm), UV
- Spot size: 1-5µm
- Work distance: >20mm
- Integrated collision protection
- Only for low laser powers



Microscan Extension MSE-G1

CONTACT

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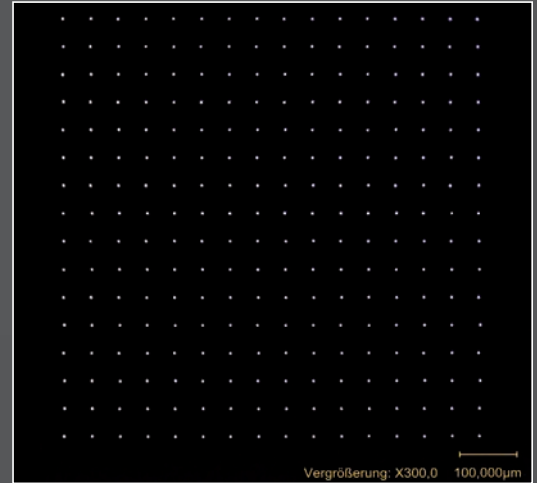
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100.000µm

Vergrößerung: X300,0

Scanning ablation of a silicon wafer using the MSE-G1. Spot size 4µm in IR



Microdrilling of thin metal sheet using MSE-G1. Drill diameter 1-4µm.

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