



FLYING SPOT SCANNER

Freely definable scan paths



Precitec's latest optical probe enables high-speed OCT imaging for thickness and topography with CHRocodile 2 IT sensors. Cutting edge technology for inline and offline quality assurance and 3D measurements is used on different kind of materials and surfaces.

The "FSSExplorer" software enables to set up your application easily. Simply define your own measurement procedure by creating a list of measurement geometries. The stand-alone optical sensor CHRocodile 2 IT stores the customized procedure and autonomously controls the probe. Finally, the software visualizes the results and statistics.

DISTANCE

THICKNESS

TOPOGRAPHY

EFFICIENT

- ▶ Precise
- ▶ Rapid
- ▶ Non-contact

VERSATILE

- ▶ High-speed area inspection for offline and inline quality control
- ▶ Simple POI inspection with definable scan shapes and filters
- ▶ Telecentric imaging for best results on specular reflective surfaces

USER-FRIENDLY & SAFE

- ▶ Simple to integrate
- ▶ Non-destructive measurement
- ▶ Robust
- ▶ Pilot laser



TECHNICAL SPECIFICATIONS OF FLYING SPOT SCANNER

	Flying Spot Scanner 80 mm (2IT/2IT DW)	Flying Spot Scanner 80 mm (2LR)	Flying Spot Scanner 40 mm (2IT/2IT DW)
Measured value	thickness, distance		
Measuring rate	up to 70.000 Hz	up to 66.000 Hz	up to 70.000 Hz
Measuring range	depends on used CHRcodile 2 IT sensor	23 µm - 2,600 µm	depends on used CHRcodile 2 IT sensor
Working distance	200 mm	200 mm	122.5 mm
max. jump speed ¹⁾	10 m/s	10 m/s	5 m/s
Scan area (diameter)	80 mm	80 mm	40 mm
Lateral resolution			
CHRcodile 2 IT DW	21 µm		6.5 µm
CHRcodile 2 IT	31 µm		10 µm
CHRcodile 2 LR		25 µm	
Numerical aperture	0.015	0.015	0.05
Measurement angle to surface	90° ± 1°	90° ± 1°	90° ± 2.5°
Operating temperature	+10°C up to +40°C		
Dimension (h x w x d) with optics [mm]	288 x 114 x 201	288 x 114 x 201	235 x 101 x 201
Weight (lens plus scanner)	3.8 kg	3.8 kg	3.7 kg
Supply voltage	24 V DC (with separate power supply 90 - 264 V AC)		
Rated power	max. 60 W		
Item number	5010514	5101387	5010668

1) max. movement speed of measurement spot

The given data was generated for a typical application and may be different given other circumstances. Furthermore misprints, changes and/or innovations may lead to differences in the listed measurements, technical data and features. Therefore all information is non-binding and technical data, measurements as well as features are not guaranteed.

Precitec 3D Metrology - measure more precisely with light.