

# TR Scan

3D CCMP2 (Trimos N° 700 405 30 33)





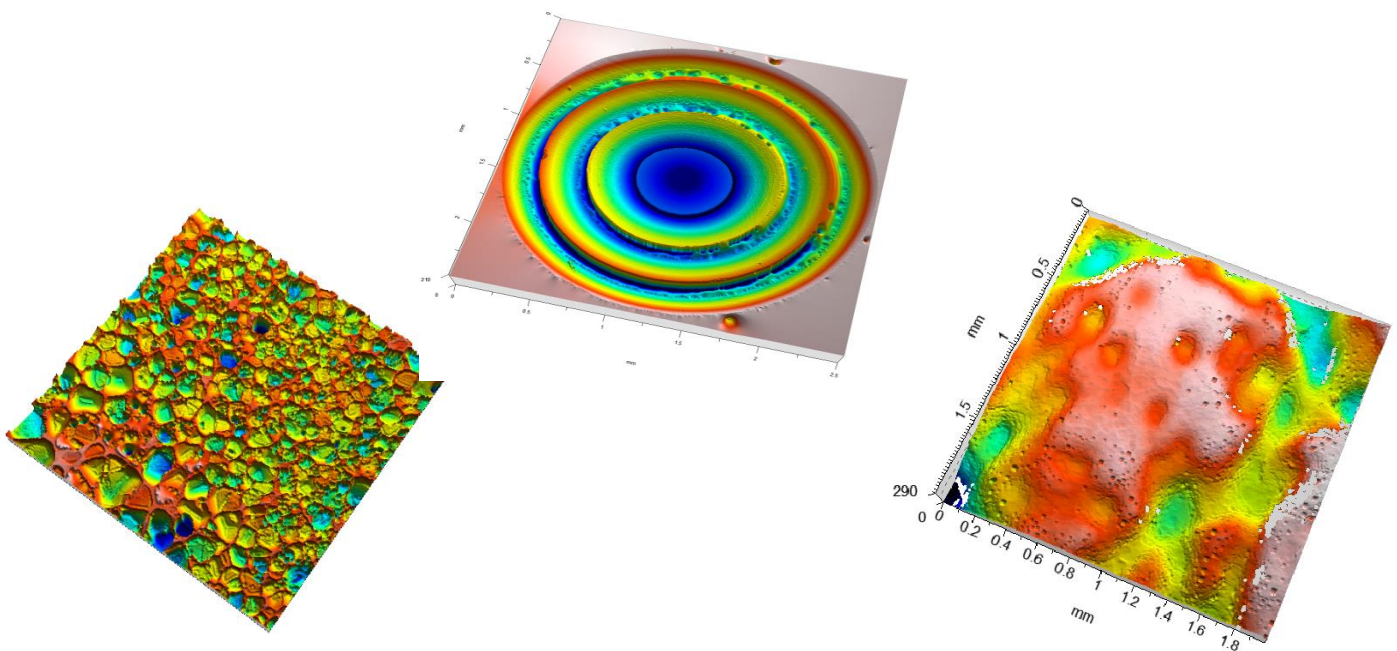
## Technology **CCMP**

Pack including:

- TR SCAN with 3 CNC Axes (Z / X / Y)
- Confocal spectrometer Box
- CL100 or CL300 (1 optical pen)
- 2 Screen TFT 19"
- Workstation Dell with Windows Seven 64 bits Ultimate
- Trimos Measurement and Trimos Analysis STT software

Application: **Versatile instrument**

**Roughness in 3D and microtopography for all parts**



## Technical specifications for CCMP2

A wide range of sensor are available with this version.

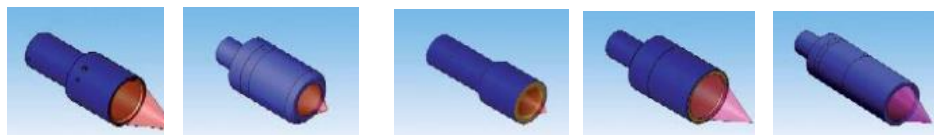
It also offers significant numerical aperture.



### Chromatic confocal for distance & thickness



OPTICAL PROBE	CL100 $\mu\text{m}$	CL300 $\mu\text{m}$	CL350 $\mu\text{m}$	CL400 $\mu\text{m}$	CL600 $\mu\text{m}$	CL1000 $\mu\text{m}$
Measuring Range	100 $\mu\text{m}$	300 $\mu\text{m}$	350 $\mu\text{m}$	400 $\mu\text{m}$	600 $\mu\text{m}$	1000 $\mu\text{m}$
Working distance <sup>1)</sup>	1.4 mm	4.5 mm	8.4 mm	15.3 mm	6.5 mm	19.1 mm
Resolution	3 nm	10 nm	12 nm	14 nm	20 nm	35 nm
Max slope <sup>2)</sup>	+/-45°	+/-30°	+/-20°	+/-45°	+/-30°	+/- 45°
Lateral resolution	1.8 $\mu\text{m}$	2.5 $\mu\text{m}$	2.5 $\mu\text{m}$	2 $\mu\text{m}$	2 $\mu\text{m}$	1.8 $\mu\text{m}$
Numerical operture	0.7	0.7	0.7	0.7	0.7	0.26
Spot size	3.5 $\mu\text{m}$	5 $\mu\text{m}$	5 $\mu\text{m}$	4 $\mu\text{m}$	4 $\mu\text{m}$	3.5 $\mu\text{m}$



OPTICAL PROBE	CL2 mm	CL3 mm	CL6 mm	CL10 mm	CL25 mm
Measuring Range	2 mm	3 mm	6 mm	10 mm	25 mm
Working distance <sup>1)</sup>	61 mm	22.5 mm	35 mm	70 mm	76.5 mm
Resolution	70 nm	100 nm	200 nm	300 nm	800 nm
Max slope <sup>2)</sup>	+/-15°	+/-30°	+/-25°	+/- 20°	+/- 15°
Lateral resolution	6 $\mu\text{m}$	6 $\mu\text{m}$	8 $\mu\text{m}$	12 $\mu\text{m}$	12 $\mu\text{m}$
Numerical operture	0.26	0.5	0.43	0.33	0.26
Spot size	12.5 $\mu\text{m}$	12 $\mu\text{m}$	16 $\mu\text{m}$	24 $\mu\text{m}$	25 $\mu\text{m}$

1) Bottom of probe to middle of measuring range

2) Decreasing accuracy on the limits

At Refractive index  $n = 1.5$

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