

TR Scan

3D CCMP1 (Trimos N° 700 405 30 31)



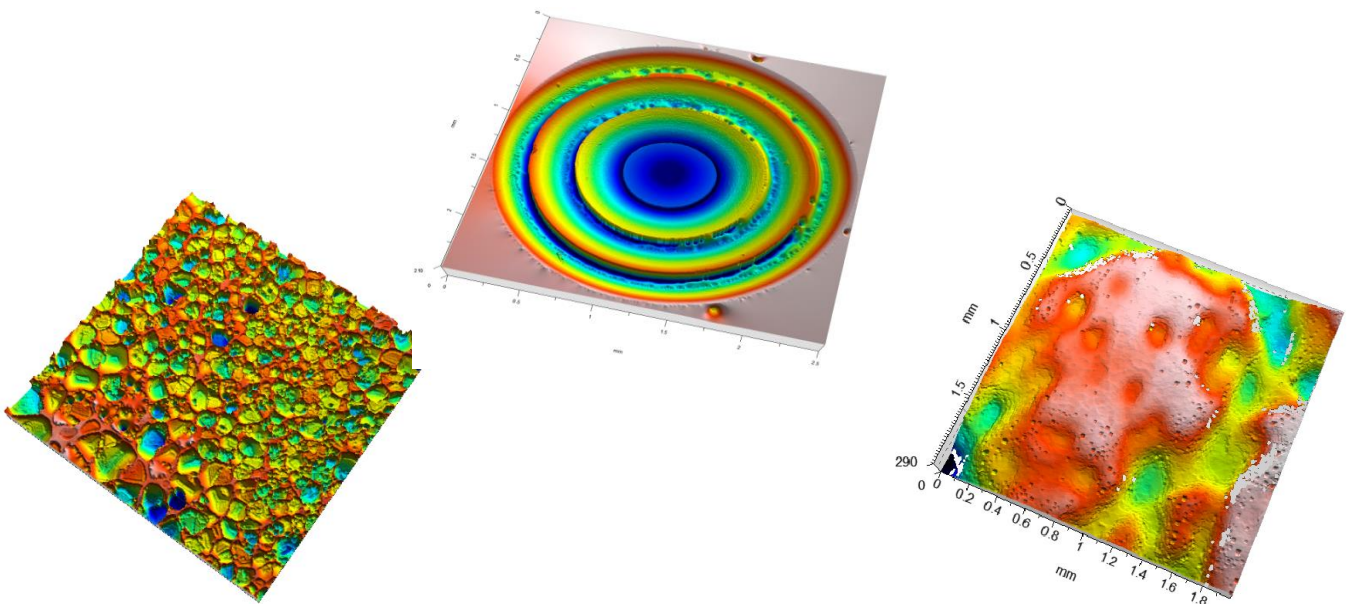


Technology **CCMP**

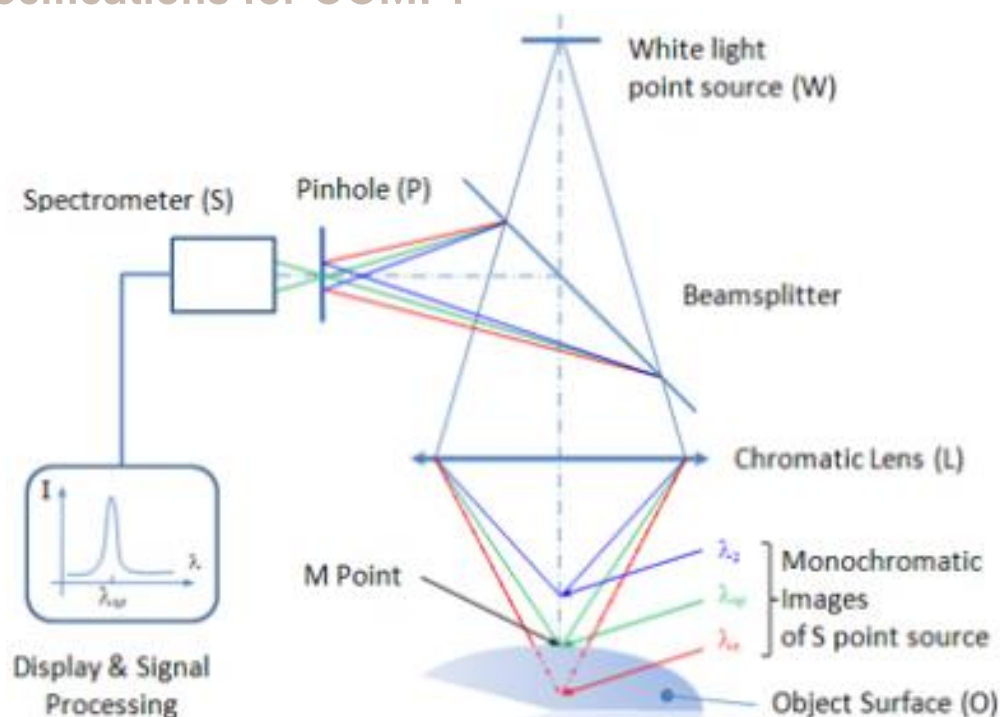
Pack including:

- TR SCAN with 3 CNC Axes (Z / X / Y)
- Confocal spectrometer Box
- CL1 or CL2 (1 optical pen)
- 2 Screen TFT 19"
- Workstation Dell with Windows Seven 64 bits Ultimate
- Trimos Measurement and Trimos Analysis STT software

Application: **Versatile instruments**
Roughness in 3D and microtopography for all parts



Technical specifications for CCMP1



An objective color L projects the image of a point source W along a continuum of monochromatic images located on the optical axis ("color coding"). A sample placed in the area of color coding shows the surface diffuse the incident light brush. Backscattered light through the lens colour L in the opposite direction and arrives at a whole P that filters all wavelengths except one, λ_M . The collected light is analyzed by a spectrograph S. The position of the sample is directly related to the wavelength detected λ_M .

OPTICAL PROBE	CL1		CL2			CL3		CL4		CL5		CL6	
Measuring Range	130 μm		400 μm			1400 μm		4000 μm		12000 μm		24000 μm	
Working distance	3.3 mm		11 mm			12.7 mm		16.4 mm		29 mm		19.6 mm	
Resolution	8 nm		22 nm			60 nm		130 nm		400 nm		780 nm	
Max slope	$\pm 42.5^\circ$		$\pm 28^\circ$			$\pm 25^\circ$		$\pm 21^\circ$		$\pm 14^\circ$		$\pm 8.5^\circ$	
Magnifier model	MG210	MG140	MG210	MG140	MG70	MG140	MG70	MG35	MG20	MG35	MG20	MG35	MG20
Spot size in μm	1.9	2.8	2.3	3.4	6.9	4	8	8	14	14	25.5	16	28
Lateral resolution	0.9	1.4	1.2	1.7	3.5	2	4	4	7	7	12.3	8	14
Photometric efficiency Hz	5.8	13	5.5	11.5	46	14	56	30	76	40	100	19.2	48