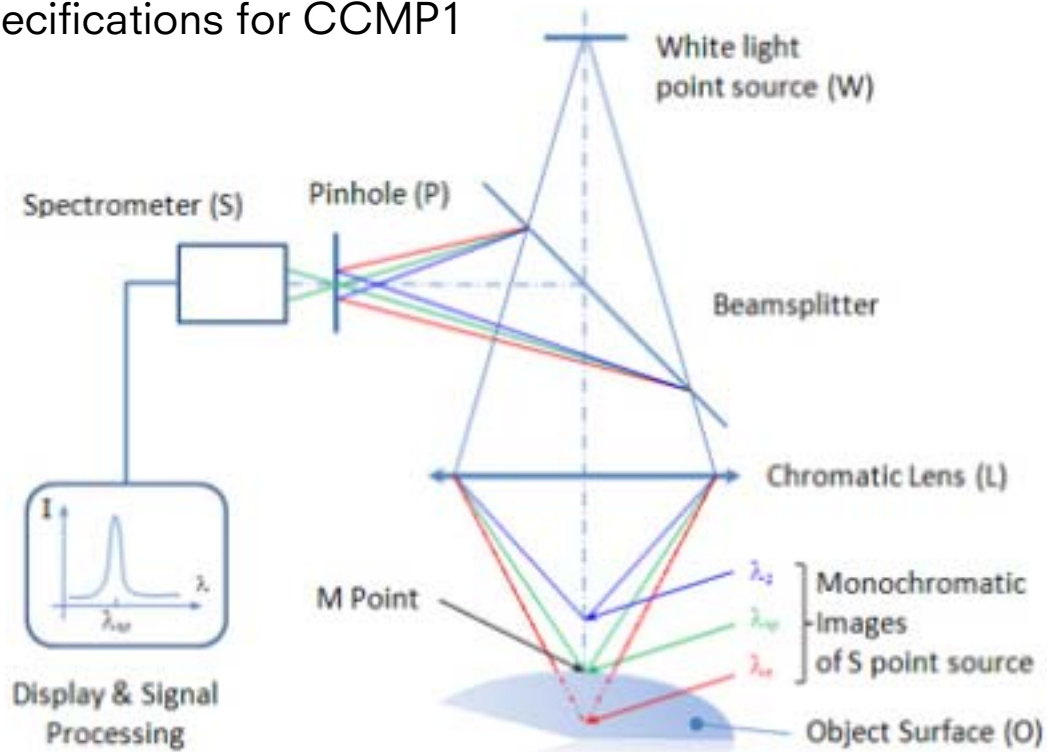


TRIMOS TR SCAN  
Technology CCMP1  
Chromatic Confocal Microscopy Point - 1



## Technical specifications for CCMP1



An objective colour L projects the image of a point source W along a continuum of monochromatic images located on the optical axis ("colour coding"). A sample placed in the area of colour 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,  $\lambda_M$ .

The collected light is analyzed by a spectrograph S. The position of the sample is directly related to the wavelength detected  $\lambda_M$ .

OPTICAL PROBE	CL1		CL2			CL3		CL4		CL5		CL6	
Measuring Range	130 $\mu\text{m}$		400 $\mu\text{m}$			1400 $\mu\text{m}$		4000 $\mu\text{m}$		12000 $\mu\text{m}$		24000 $\mu\text{m}$	
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	+/-42.5°		+/-28°			+/-25°		+/-21°		+/-14°		+/-8.5°	
Magnifer model	MG210	MG140	MG210	MG140	MG70	MG140	MG70	MG35	MG20	MG35	MG20	MG35	MG20
Spot size in $\mu\text{m}$	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