

CL1-MG140

NEW
2020

MARPOSS
STIL

Chromatic Confocal Controller

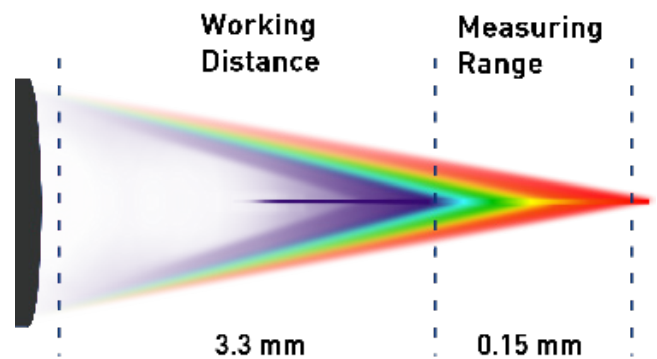


CL1-MG140 stands out for high precision roughness measurement on all materials.

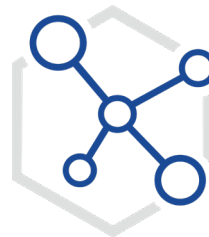
It is used in many high-tech industries such as semiconductors, 3C or research laboratories.

The new CL1-MG140 offers outstanding performance:

- Universal diameter (27mm)
- Axial resolution (from nanometer to micrometer scales)
- A few hundred grams for easy OEM integration
- Reference for roughness measurements (norm ISO25178-602)
- Optimal lateral resolution (from less than 1µm)
- Maximal Numerical Aperture (>0,7)



All materials



Industrial



Accurate measurement

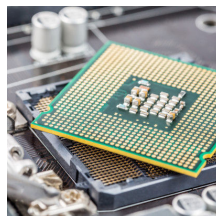


DESIGNED FOR

Mechanics



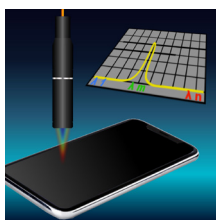
Semiconductors



Glass

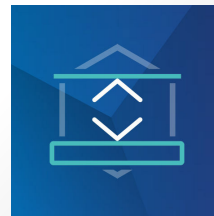


Metrology



PERFECT FOR

Distance



Roughness



Thickness



Shape



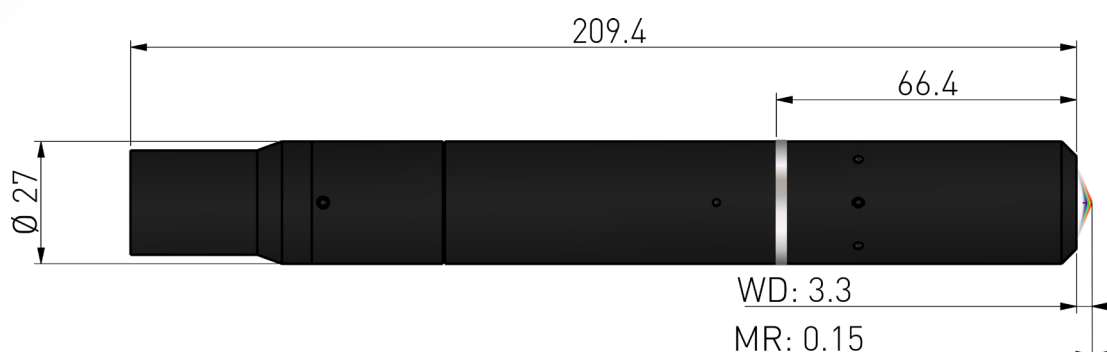
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DIMENSIONAL DRAWING*



Nota: All dimensions are in mm

SPECIFICATIONS*

Product	Unit	CL1-MG140
Order code		O3PS0111401
Measuring Range	mm	0.15
Working Distance	mm	3.3
Numerical aperture		0.71
Max. sample slope	°	± 42
Axial model		Standard
90° folded model		Option
Max. linearity error**	µm	± 0.02
Static noise**	nm	8
Axial resolution**	µm	0.048
Lateral resolution	µm	1.3
Spot size	µm	3.5
Photometric efficiency		13
Min. measurable thickness ***	µm	9
Length	mm	209.4
Diameter	mm	27
Weight	g	195

** With CCS electronics (PRIMA & OPTIMA+)

*** These are typical values considering a layer of glass, i.e. considering a refractive index n=1.51

ASSOCIATED WITH

OPTICAL FIBER

- Standard cladding
- Stainless steel cladding
- Armored fiber

CONTROLLER



- ZENITH
- PRIMA, - OPTIMA +
- PRIMA 2
- STIL-DUO

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*Specifications are subject to modifications

CLMG-114-N1-0822