

MC2

VISION
INSPECTION

MARPOSS STIL

Chromatic Confocal Line Camera



Vision systems have a double role:

- Provide a good-quality image of the sample surface with the desired magnification.
- Process the image in order to detect and analyze some predefined features or textures.

While the processing units get more and more powerful, the basic limitation of current Vision systems resides in their very small depth of focus (a few dozens of μm or less, depending on the numerical aperture).

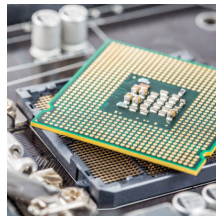
Due to this limitation, expensive and complicated Z scanning systems and / or autofocus mechanism are required for viewing samples with larger Z extension and moving samples. Chromatic confocal microscopy is a technology allowing the design of optical systems with a very large depth of focus (up to several mm). For samples located anywhere within the extended depth of focus view these system provide a sharp, high quality and perfectly focused image. This technology combines the merits of color coding and of traditional confocal microscopes. Chromatic confocal microscopes consist of a slit illuminated by a polychromatic light source, a high quality chromatic lens, a beam separator and a 4K line camera.

DESIGNED FOR

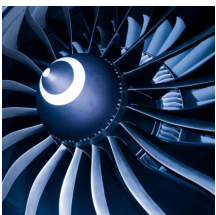
Mechanics



Semiconductors



Aerospace



Glass



PERFECT FOR

Inspection



Microscopy



Dimension



Vision



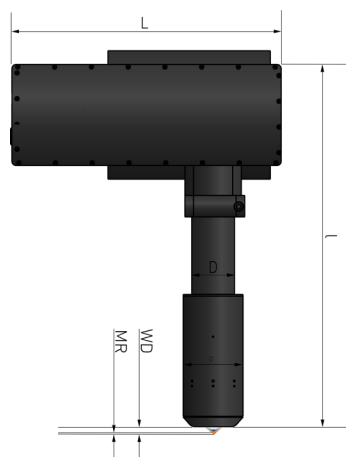
MC2

VISION
INSPECTION

MARPOSS STIL

Chromatic Confocal Line Camera

DIMENSIONAL DRAWING*



Nota: All dimensions are in mm

SPECIFICATIONS*

Product		MC2 NANOVIEW	MC2 WIREVIEW	MC2 MICROVIEW	MC2 DEEVIEW mk2	MC2 SUPERVIEW
Order code		OPSTM702001	OPSTM708001	OPSTM704001	OPST0706002	OPSTM709001
Line length	mm	1.34	1.51	1.8	4.2	12.85
Depth of field	µm	120	900	500	2600	2000
Working Distance	mm	7.4	7.8	10.1	19.5	11.3
Magnification		17.3	15.6	12.9	5.6	1.8
Numerical aperture		0.75	0.75	0.5	0.37	0.33
Max. sample slope	°	± 43	± 46	± 30	± 20	± 17
Pixel size on the sample (resolution)	µm	0.43	0.49	0.58	1.35	4.1
Lenght	mm	421.6	468	412.8	400.5	370
Diameter	mm	50	70	50	60	60
Weight	g	5300	5800	5200	5850	5600

ACCESSORIES



Product	Order code	Characteristic
Holder D50	015ST000005	Sensor head holder for 50mm diameter optics (MicroView)
Holder D60	015ST000006	Sensor head holder for 60 mm diameter optics (Superview)
Holder D70	015ST000010	Sensor head holder for 70 mm diameter optics (WireView)
Video Card	8ST16000001	Frame grabber : Euresys Grablink Full
Lightbox	08ST1500001	LED light source box for MC2