IRIX

CPS1
CHROMATIC CONFOCAL SOLUTION
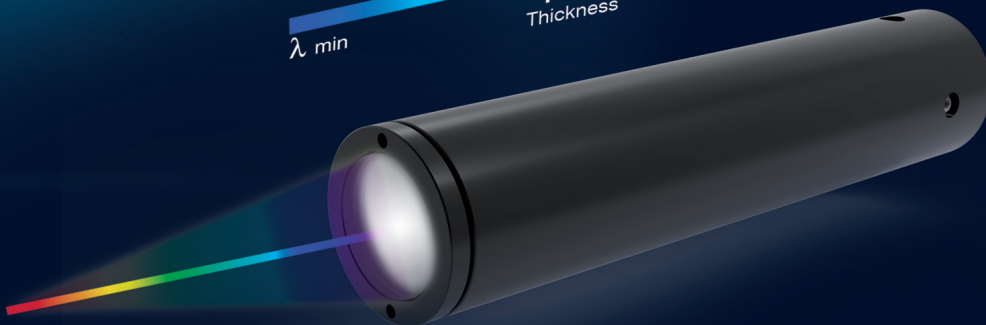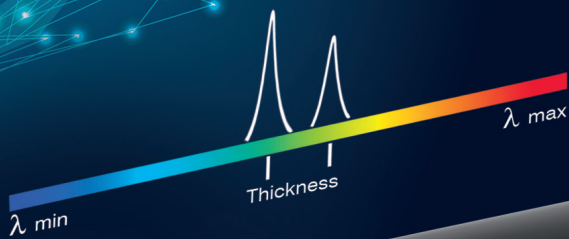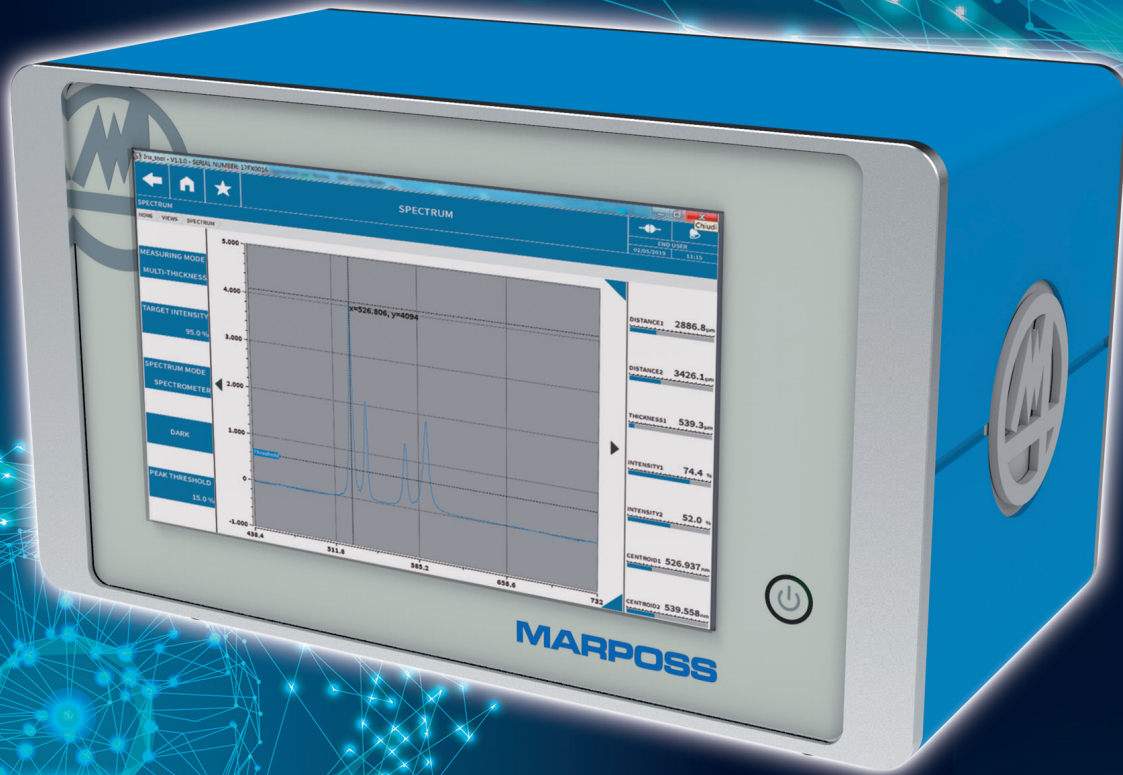
MARPOSS

Controllers	Spec.
Measuring frequency	up to 2.000 Hz
Light source	LED
Wavelength range	[450÷700] nm
Measuring modes	Distance Thickness
Calibration tables (max)	32
Encoders input	3 digital (TTL/HTL Differential/Single Ended)
Digital ports	USB / ETH / RS422
Analog outputs	2 (0-10Vdc)
Synchronization I/O	1 Synchro input (TTL) / 1 Synchro output (TTL)
Optical fiber connector	FC/APC
Compatible Optical pens	all the ones will be required (for application dedicated solution)
Power supply / consumption	24 V DC / 20 W
Protection type	IP40
Dimensions (w x h x d)	235 x 142,5 x 130 mm
Mechanical interface	with support feet

Optical pen	Meas.unit	Spec.
Measuring range	[μm]	4.000
Working distance	[mm]	16,5
Max. object slope (1)	[deg]	+/- 21°
Axial model	-	Standard
Radial model	-	Optional
LATERAL (XY) PROPERTIES		
Spot size (diameter) (3)	[μm]	8
Lateral resolution	[μm]	4
MECHANICAL INTERFACE		
Length	[mm]	128
Diameter	[mm]	27
Weight	[g]	153
RESOLUTION (1)		
[no average]	[nm]	110
[with average 10]	[nm]	37
Accuracy	[nm]	300
THICKNESS MEASUREMENT (2)		
Min. measurable thickness	[μm]	110
Max measurable thickness	[μm]	5700

Note:
(1) all value are referred to GOLD MIRROR target
(2) the values are referred to refractive index 1,5 in the following conditions:
    optimal rate, no averaging, middle of the measuring range
(3) indicative value by design