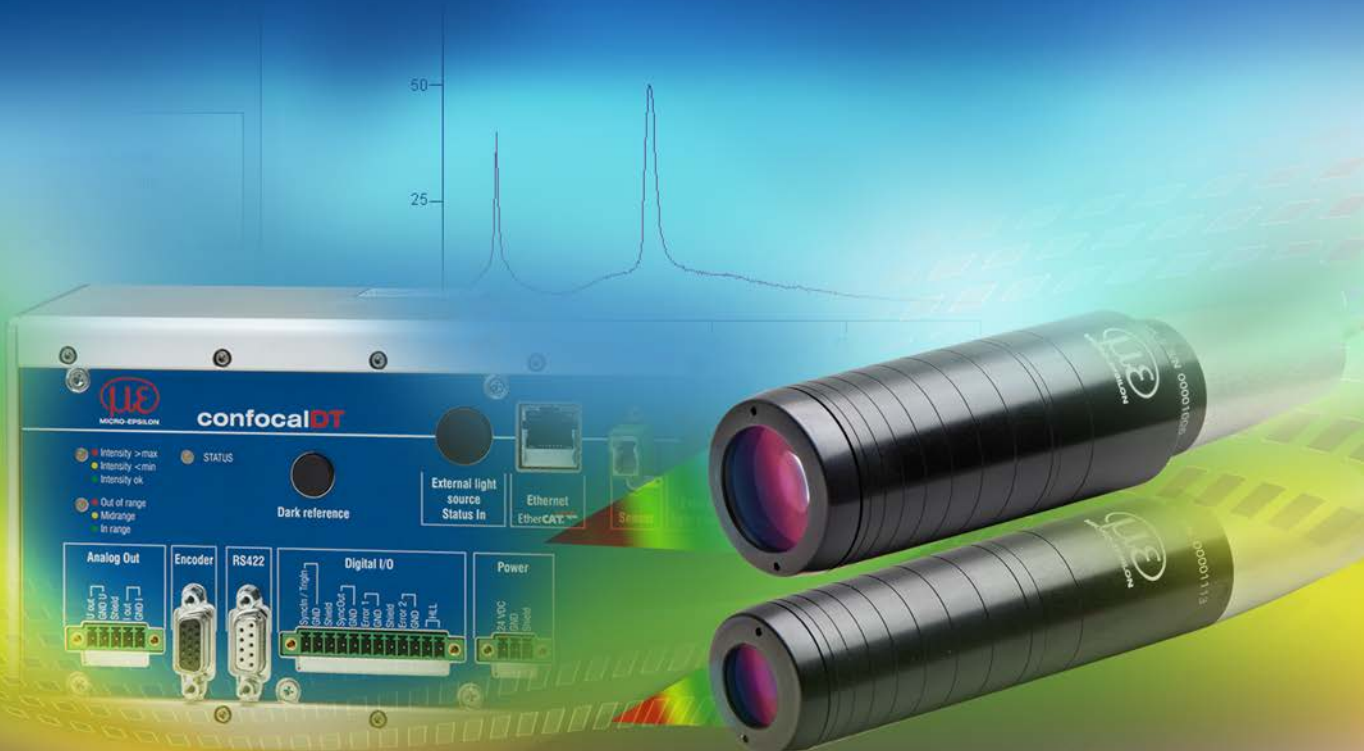











# More Precision

**confocalDT** // Confocal chromatic measurement system

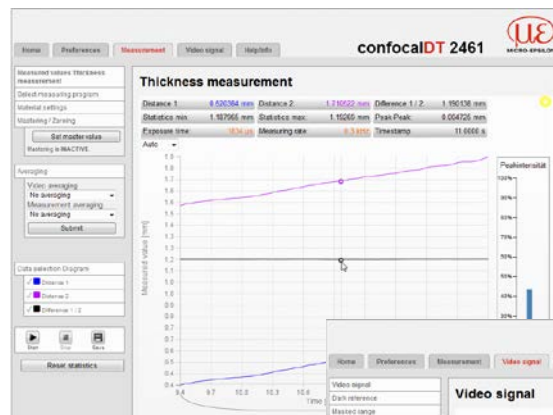




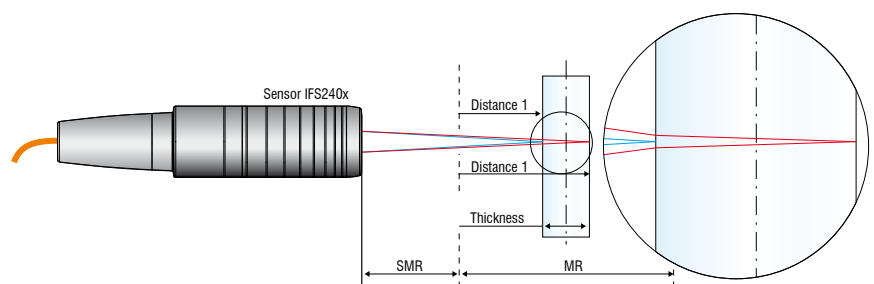
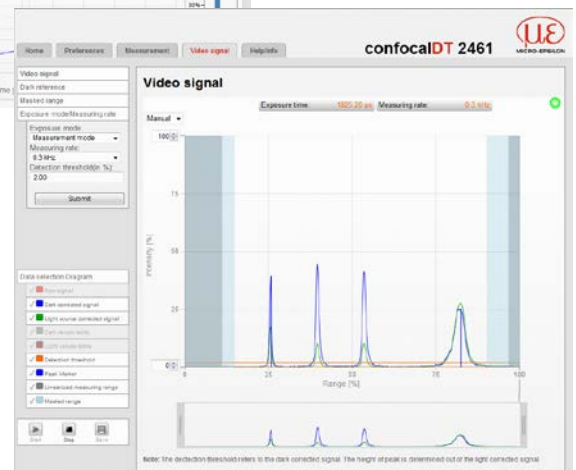
-  **Fast confocal controller: up to 25kHz**
-  **INTERFACE** Interfaces: Ethernet / EtherCAT / RS422 / Analogue
-  **Fast surface compensation**
-  **Configuration via web interface**
-  **Submicrometer resolution**
-  **Multi layer thickness measurement**
-  **Robust design with passive cooling**

confocalDT 2461 systems are used for complex distance and thickness measurements. The IFC2461 controller is equipped with enhanced, optimised optical components enabling measuring rates up to 25kHz without having to use an external light source. The high light intensity enables reliable measurements on difficult surfaces, e.g. on matt black objects or for multi-layer thickness measurement of glass. The controller can be operated with any IFS sensor and is available as a standard version for distance measurements or as a multi-peak version for thickness measurements.

The active exposure regulation feature in the CCD array enables accurate, fast surface compensation on difficult changing surfaces during dynamic measurement processes. Thanks to a user-friendly web interface, the entire configuration can be carried out without using any additional software. Data output is via Ethernet, EtherCAT, RS422 or analogue output.

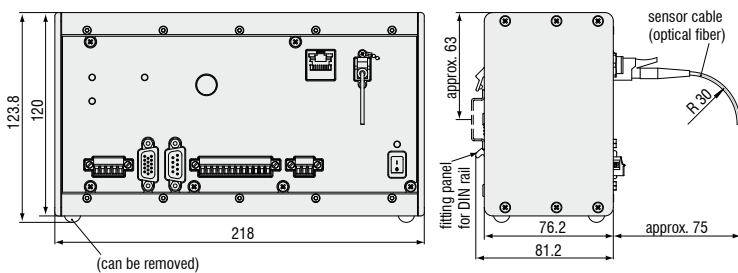


All thickness measurement settings are configured through the web interface. A number of transparent materials are stored in the expandable materials database.



Controller	IFC2461	IFC2461MP
Multi peak measurement	2 peaks	up to 6 peaks
Light source	internal white LED	
Measuring rate	adjustable 25 / 10 / 5 / 2.5 / 1 / 0.3 / 0.2 / 0.1kHz	
Resolution	Ethernet / EtherCAT	1nm
	RS422	18bit
	Analogue	16bit
Storage	up to 20 calibration tables for different sensors, menu selection	
Controller inputs / outputs	sync-in / trigger-in, sync-out error1-out, error2-out encoder (3x A, B, Index) EtherCAT/Ethernet RS422 analogue: current, voltage (16bit D/A converter)	
EtherCAT		
Operating elements, controller display	On/Off switch; Button for dark alignment (as well as for reset to factory setting after 10sec) 4x LED for intensity, range, status, supply voltage	
Supply voltage, power consumption	24VDC $\pm$ 15%, $\sim$ 10W	
Housing	Aluminium case for DIN rail mounting	
Protection class	IP40	
Operating temperature	5°C ... 50°C	
Storage temperature	-20°C ... 70°C	
Permissible ambient light	30,000lx	
Safety; EMC	CE	
Interference emission	EN 61 000-6-3 / DIN EN 61326-1 (class B)	
Interference resistance	EN 61 000-6-2 / DIN EN 61326-1	
Shock	15 g, 6ms	
Vibration	2g / 10Hz ... 500Hz	
Optical fibre cable length	sensor	2 ... 50m
	connector	E2000
Cable length (all cables are shielded)	EtherCAT, Ethernet	CAT5E; length <100m
	supply, RS422, sync./ error	<30m
	analogue	<30m
	encoder	<3m

#### Controller IFC2461



## High performance sensors made by Micro-Epsilon



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Measurement and inspection systems



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