



# CHROCODILE 2 DPS

Quality control via optical inspection



The CHROcodile 2 DPS chromatic confocal sensor is equipped with two independent channels that enable simultaneous evaluations from both channels at the full measurement rate.

An embedded processor in the CHROcodile controller uses signals from the individual channels, synchronizes the data, and gives out directly the result of thickness or step height measurements. That is why the CHROcodile 2 DPS is the ideal fit for two-sided thickness measurement of non-transparent materials or layers where the thickness exceeds the measuring range of a single probe.

Furthermore, step height and multi-layer thickness measurements are also feasible. In addition, the embedded processor enables the CHR controller to carry out automatic referencing with no extra hardware needed for thickness or step height measurements.

DISTANCE

THICKNESS

TOPOGRAPHY

## EFFICIENT

- ▶ Replaces and combines two individual sensors
- ▶ Adjustable measuring rate: up to 10 kHz per channel
- ▶ Cost-efficient solution

## VERSATILE

- ▶ Usable on all surfaces: non-transparent, structured or index-matched material and coated layers
- ▶ Five encoder inputs, trigger, sync-output
- ▶ Two channels: Two-sided thickness measurement, step height and multi-layer measurements
- ▶ Compatible with any fiber-connected chromatical probe

## USER-FRIENDLY & SAFE

- ▶ Easy to use
- ▶ Synchronization and referencing post-processing embedded
- ▶ Auto-adapt light function
- ▶ Ethernet, RS-422
- ▶ Robust and maintenance-free

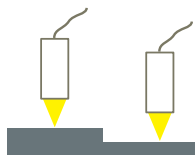


## TECHNICAL SPECIFICATIONS OF CHROCODILE 2 DPS

measured value	distance, thickness
measuring rate	up to 10,000 Hz / per channel
linearity <sup>1)</sup>	$3.3 \times 10^{-4}$ x upper measuring range limit
resolution	$3 \times 10^{-6}$ x upper measuring range limit
number of measuring channels	2
synchronization with external devices	trigger input, synchronizing output, 5 encoder inputs
interface	Ethernet, RS-422, 2 x analog (-10 V up to +10 V, 16 Bit)
transfer rate	100 Mbit (Ethernet), up to 10 MBaud (RS-422)
light source	LED
dimension (w x h x d)	220 mm x 110 mm x 125 mm
weight	2 kg
supply voltage	16 - 30 V DC (with separate power supply 90 - 264 V AC)
rated power	20 W
item number	5010534

<sup>1)</sup> Perpendicular measurement on mirror at 20° C

The given data was generated for a typical application and may be different given other circumstances. Furthermore misprints, changes and/or innovations may lead to differences in the listed measurements, technical data and features. Therefore all information is non-binding and technical data, measurements as well as features are not guaranteed.



step height  
measurement



two-sided thickness  
measurement

**Precitec 3D Metrology** - measure precisely with light.