



# C-LAS mini

**Made in Germany**

**Laser Optic  
Photometer**

reference beam system

**Cuvette  
holder**

for cuvettes

**TEC Control**

for  $37^{\circ} \pm 0.5^{\circ}$   
(heating and cooling)

**Photosensors**

transmission  
turbidimetry  
nephelometry  
fluorescence



**All used Photosensors  
simultaneous measurable**

**PRODUCTS FOR the FUTURE**



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It fits to your application

[www.labnet-optics.com](http://www.labnet-optics.com)

## C-LAS mini Technical specifications

Wavelength options: 340, 405, 450, 520, 638, 642, 660, 685, 783, 808, 830, 840, 850, 980nm  
Ask for more wavelengths range 340 up to 1200nm

Spectral bandwidth:	< 1.5nm (340 nm: <11nm)
Wavelength accuracy	± 5nm
Wavelength repeatability	± 0.3nm
Stray light	< 0.01 %T
Photometric system	Double beam
Photometric range	-0.1 to 3 Abs
Limit of Detection	0.0014 Abs
Photometric precision	< ± 0.00075 OD (0.05Abs) < ± 0.00075 OD (1Abs) < ± 0.0095 OD (2.5Abs)
Baseline stability	< ± 0.0002 OD / h < ± 0.0016 OD / 24h
Light source warms up delay	None (instant on)
Detector resolution	16 bit (65536 counts)
Sampling rate	Up to 500Hz
TEC warm up time	< 10 minutes
Cuvette holder temperature drift	< ± 0.35°C / 24 h
Temperature drift measured inside semi-micro-cuvette	< ± 0.175°C / h
Operating temperature	+15 to +40°C, non-condensing @37°C
Storage temperature	-40 to +70°C, non-condensing
Power supply optic module	By USB (5V, <280mA)
Power supply TEC control	External: 12V 1.5A
Weight	100g (optical parts & electronic)
Dimensions (W x H x D)	69 x 27 x 131mm

up to 8 PDs simultaneously

Transmission

Turbidimetry at 31.8°

Nephelometry at 90°

Fluorescence

Back stray light

TEC control for Peltier

TEC for heating & cooling

Amazing flexibility

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