

HELIO C UV-NIR

All you need



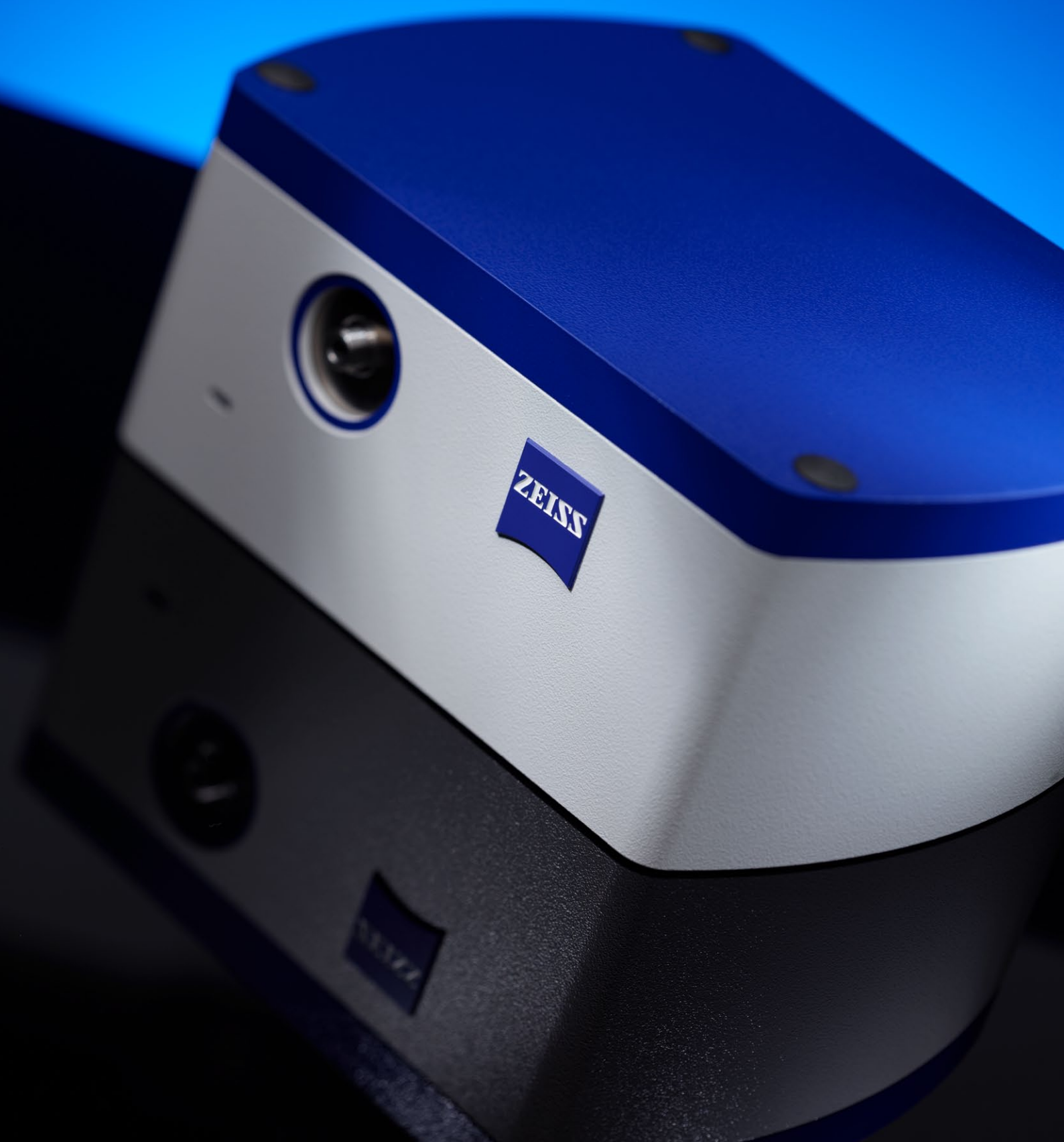
The new Ready-To-Measure spectrometer
from Carl Zeiss



We make it visible.

HELIO C UV-NIR Spectrometer

HELIO C UV-NIR (190 – 1000 nm)



All you need

HELIO C UV-NIR is an extremely compact spectrometer that features outstanding user-friendliness, economic efficiency and performance.

With this spectrometer, Carl Zeiss closes the gap between the MMS, MCS and CGS class spectrometers and the spectrometer systems of the MCS 600 and CORONA PLUS line. This provides users for the first time with a compact spectrometer which can work with a USB or Ethernet interface. The heart of the new spectrometer is the newly developed CGS spectrometer module. The CGS comprises an imaging grating, an optical port and an uncooled CCD detector. The CCD detector has an electric shutter function that enables minimal integration times.

The core of the spectrometers is a blazed, flat-field grating for light dispersion and imaging. Common measuring heads can be connected via the SMA interface. The spectrometer is thus configured for all industrial measuring jobs.



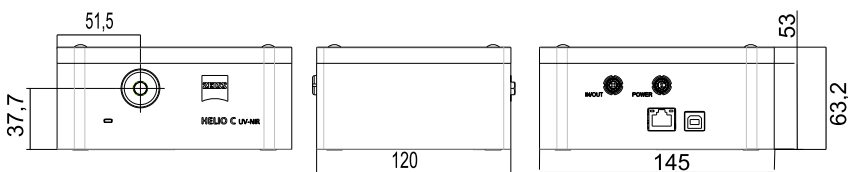
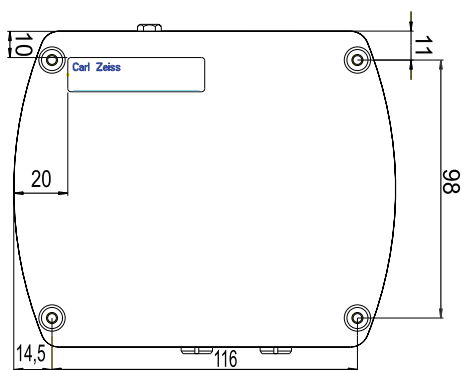
Benefits of the new HELIO C spectrometer:

- ✓ Ready-to-measure
- ✓ 190 – 1000 nm wavelength range
- ✓ High sensitivity and good resolution
- ✓ High, 16-bit dynamic range
- ✓ Outstanding signal-to-noise ratio

Technical Data (preliminary)

	HELIO C UV-NIR
Optical entrance	SMA-coupling 50 µm optical slit (can be varied upon request) NA = 0.22 (homogeneous illumination of the acceptance angle) 600 µm mono-fiber interface recommended for customer
Grating	Flat-field, 534 l/mm (center) blazed for approx. 230 nm
Spectral range	190 – 1000 nm
Resolution (half width at 10 %) with 50 µm slit	UV-VIS ~ 2 – 2.5 nm NIR 3 – 4 nm
Straylight (ASTM 387-04)	2.5 – 3.5 AU at 240 nm with deuterium lamp (absorption A_{10} of NaI)
Integration time (depending from operation electronics)	0.5 – 6500 msek
A/D Resolution	16 bit
Interface electronical	USB 2.0 Ethernet
Diode array	Hamamatsu S11156, Back-thinned CCD, 2048 pixel Height of element: 1 mm Pixel pitch: 14 µm
Digital I/O	1 x In, 1 x Out
Power supply	USB USB Port (500 mA) or external 9 – 36 V Ethernet external 9 – 36 V
Dimensions L x W x H	120 x 145 x 63 mm ³

Dimensions HELIO C



Carl Zeiss Microlmaging GmbH

07740 Jena, Germany

Industrial | Jena Location

Phone : + 49 3641 64 2838

Telefax : + 49 3641 64 2485

E-Mail : info.spektralsensorik@zeiss.de

www.zeiss.de/spectrometer

SCA Pacific Pte Ltd

Block 108 Ang Mo Kio Ave 4, #01-88

Singapore 560108

Phone : + 65 6298 9989

Telefax : + 65 6291 9989

E-Mail : scapacific@singnet.com.sg

www.scapacific.com.sg

