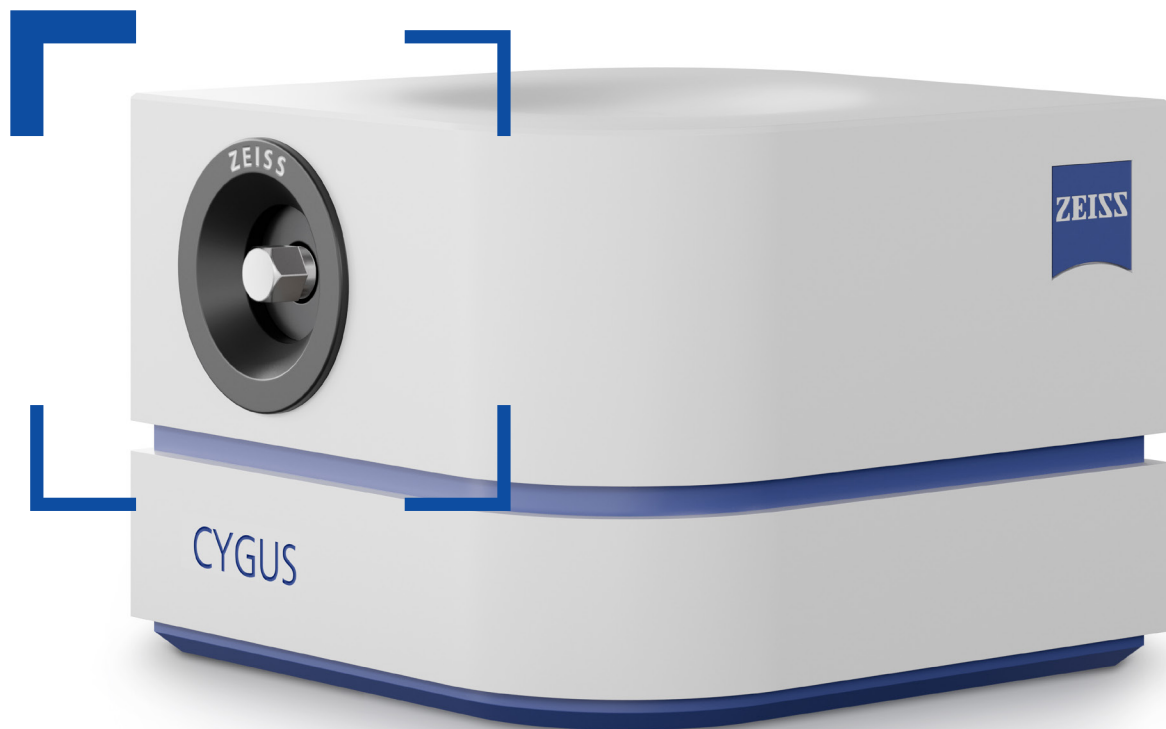


High performance in a compact package

The latest evolution of CMOS
spectrometers from ZEISS



CYGUS® from ZEISS



Overview

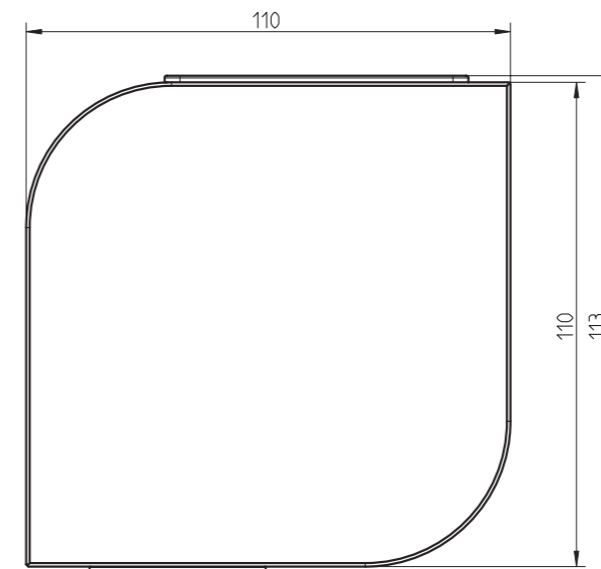
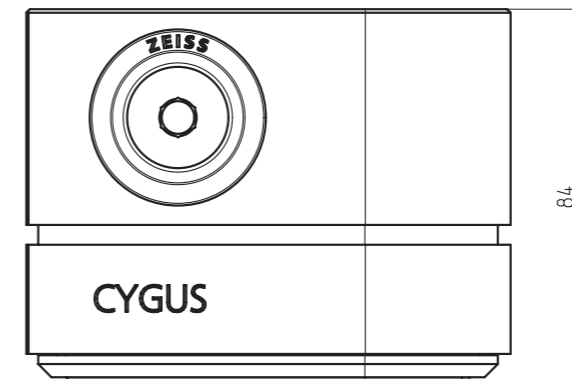
CYGUS is the latest evolution of the CYGUS LV D YDL ODE OH DV DQ 2(0) with the highest resolution, high sensitivity and fast readout. The dedicated optical system covers the entire spectral range.

The CYGUS LV D YDL ODE OH DV DQ 2(0) is a compact, rugged industrial product. Applications include:

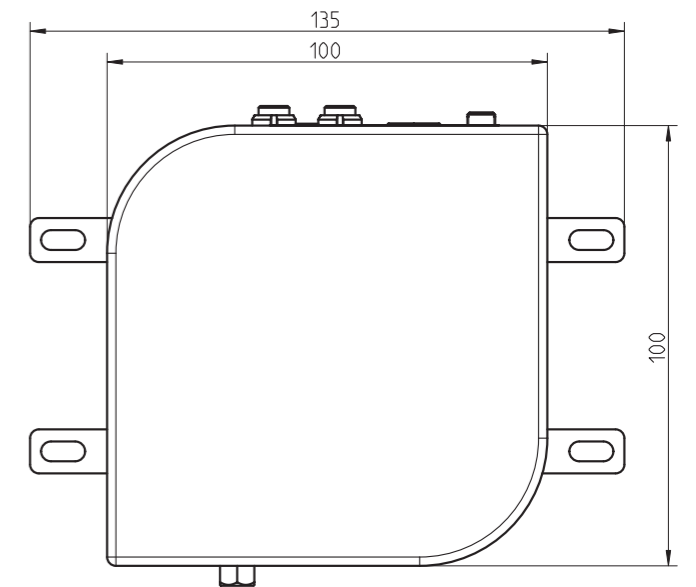
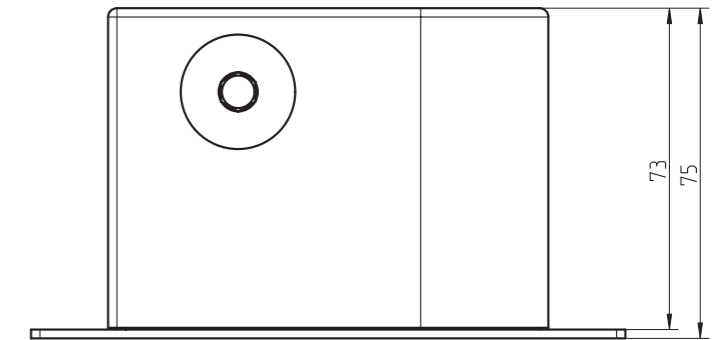
- 6HPLFRQGXFWRU 3URFHVV &RQWURO 2(6 6SHFWUDO (OOLSVRPHWU\
- 7KLFNQHV V 0HDVXUHPHQW
- +3/& 'HWHFWRUV
- (PLVVLRQ 6SHFWURVFRS\
- &RORULPHWU\ /(' 7HVWLQJ
- 3KDUPD +H DOWKFDUH

Dimensional Drawing

CYGUS 'HPR .LW

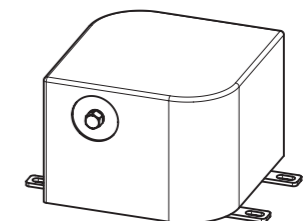
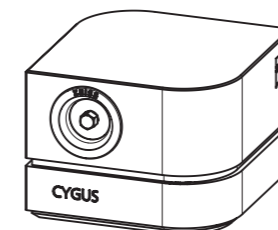


CYGUS 2(0 .LW



Applications

CYGUS LV LGHDOO\ VXLWHG IRU ORZ OLJKW DSSOLFDFWLRQV VXFK DV 1XRUHVFRQFH HPLVVLRQ DEVRUEDQFH DQG UH1HFWDQFH PHDVXUHPHQW a ZKHWKHU LQ WKH ODE RU DV DQ 2(0 industrial product. Applications include:



Technical Data

Spectral range	190 – 1100 nm	
Resolution (FWHM)	1.0...2.8 nm (depending on slit size and sensor type) 2.0 nm (typ.)	
Optical entrance	SMA connector 40 µm optical slit (custom slit sizes available) NA = 0.22	
Blaze wavelength	230 nm / 400 nm / 750 nm	
Straylight	< 0.1 %	
Integration time	> 100 µs	
Detector	Hamamatsu CMOS detector	
ADC	16-bit, 1-10 MPixel/s	
Interfaces	USB 3.0 Digital I/O: 1x Trigger In and Out (TTL)	
Power Supply	9-24 V DC, 200 mA	
Dimensions L x W x H	OEM-Kit: 100 x 100 x 73 mm ³ Demo-Kit: 110 x 110 x 84 mm ³	
Environmental	Operating temperature	0 °C to +60 °C
	Relative humidity	< 90% (non-condensing)
	Storage temperature	-40 °C to +70 °C

Detector Options and Specifications

Spectral range	No of pixels	Spectral Pixel Dispersion	Frame-Rate
High Resolution S13496	4096	0.22 nm/px	2.38 kHz
High Sensitivity S11639	2048	0.44 nm/px	4.63 kHz
Fast Readout S12198	1024	0.88 nm/px	9.41 kHz

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