HORIBA

VS70C LSL

Compact Low Stray Light Spectrometer
For Industrial Research & Development

- Low stray light, up to OD3
- Compact
- Large spectral range
- Flexible interface I/O and connectivity
- Easy integration for fast concept validation
- Cost effective

VS70C LSL Spectrometer
SpecSheet

Low Stray Light, High Performance: Introducing the VS70C LSL

The **VS70C LSL spectrometer** is optimized for **low stray light UV Vis measurements**, delivering **accurate and linear performance up to 3 Absorbance (OD3)**, well beyond conventional systems.

Its high dynamic range reduces the need for sample dilution, **simplifying workflows and accelerating analysis**.

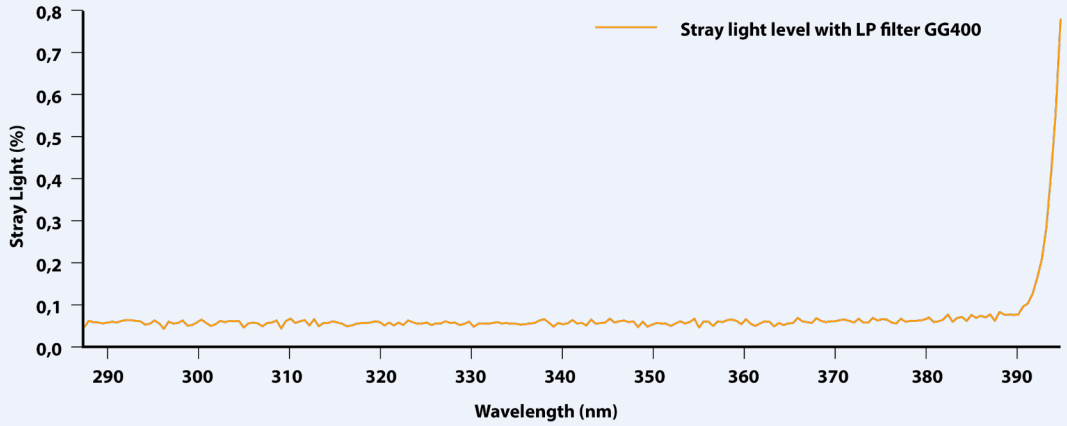
Designed for **fast industrial integration**, the VS70C LSL combines **dual communication interfaces**, a **single fiber optic channel**, and a **back thinned CCD detector**, offering a **flexible , Robust, and high performance OEM platform** for demanding applications.

Specifications	
Typical applications	Semiconductor, lifesciences, Environment, Agri Food, Color analysis, process monitoring
Measurement type	Absorbance measurements up to OD3; Transmission and reflectance analysis
Spectral range	200-1000 nm
Spectral resolution (FWHM)	2.5 nm
Numerical aperture (NA)	0.14
Relative stray light	Typical 0.05%
Absorbance range	>3 OD
Wavelength interpolation accuracy	0.5 nm
Wavelength stability over operational temperature	0.75 nm
Detector	Back-thinned CCD
Maximum acquisition rate	100 Spectra/s
Output signal format	16bit
Dynamic range (FW/RN)	6500:1[(1)]
SNR	500
Input connector	SMA 905
Recommended input fiber core diameter	600 µm
Recommended fiber NA	0.22
Communication	TCP/IP
Power requirements	24V, 1A
Typical power consumption	7W max
Software	SDK SAPI / JY70 Spectrometer
Functionality	Lamp flash control; Input/output TTL signal trigger; Programmable TTL input/output; Programmable analog input
Digital I/O	Input/output TTL trigger Signal -6 Programmable TTL output -2 Programmable analog input -1 Programmable TTL input
Operating temperature	5°C to 45°C
Storage temperature	-20°C to 70°C
Dimensions (L, W, H)	130 x 112 x 68 mm

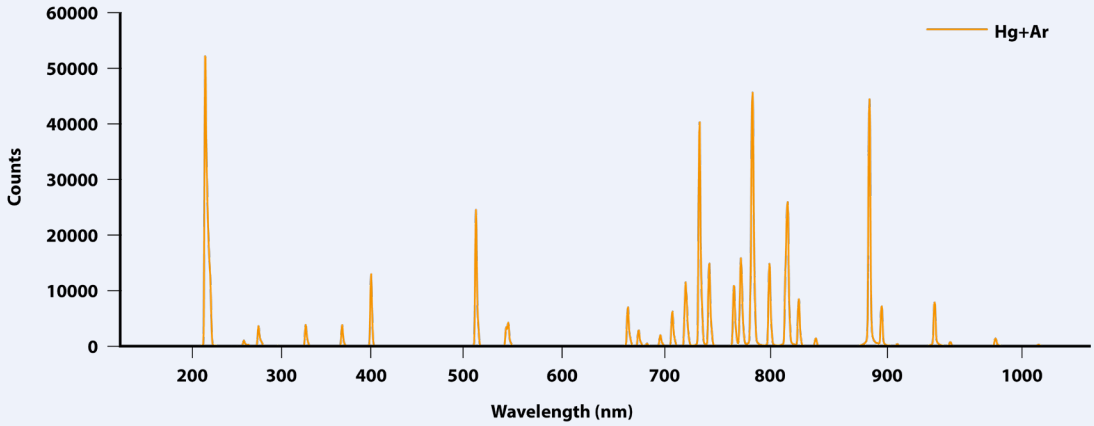
(1) Dynamic range is defined as the ratio of the saturation level to the readout noise of the sensor.

Performance

Stray Light



Spectral Range



Interfaces / Functionalities / Connectivity

- TCP/IP Ethernet interface for high-performance data acquisition and seamless network integration.
- Sub-D 25 I/O interface for easy system integration and versatile control, including:
  - Trigger input for synchronized measurements
  - Electrical outputs for shutter and lamp flash control

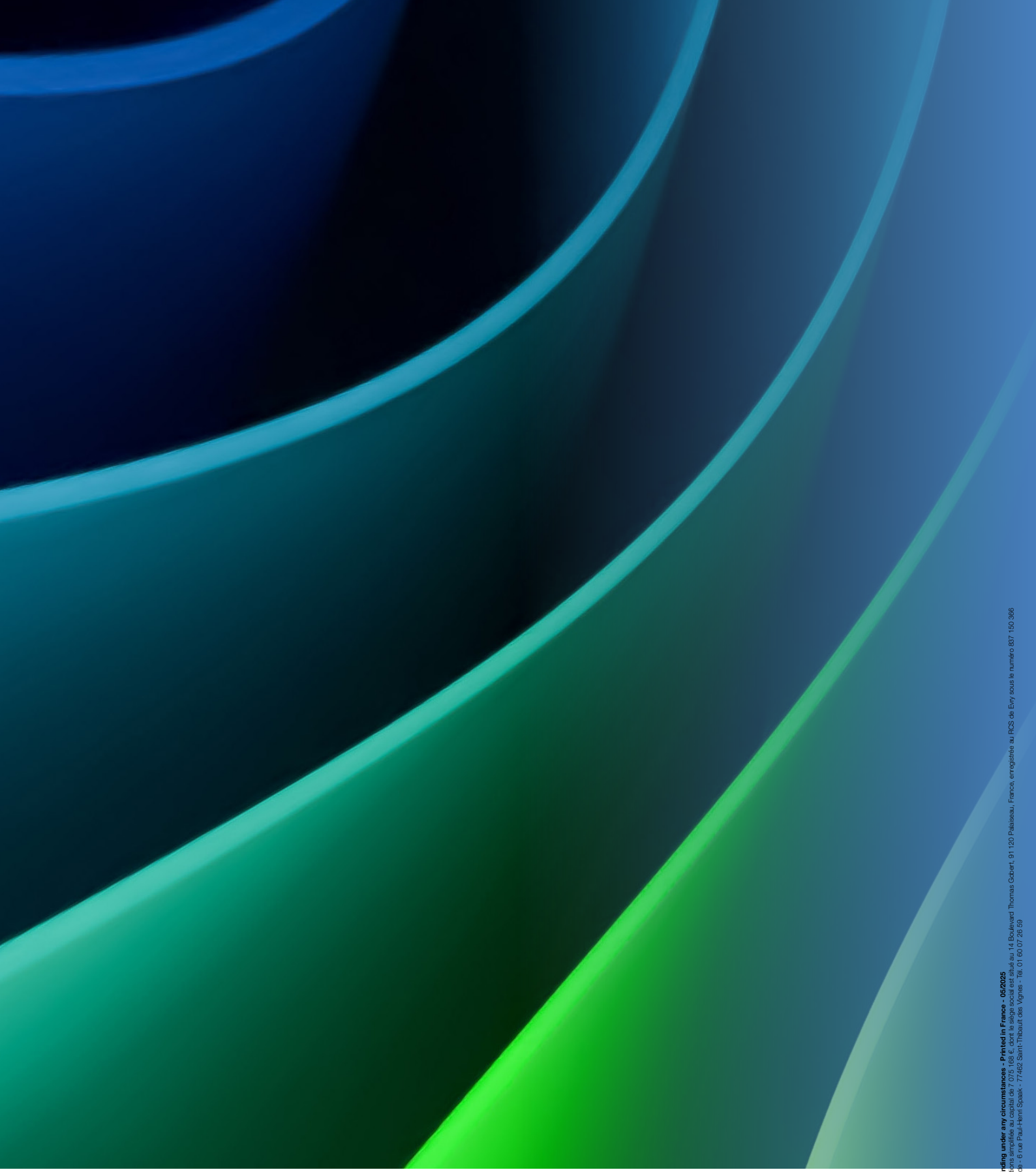
Options/Customization

With over 30 years of experience as a trusted OEM partner, HORIBA is a recognized leader in grating and spectrometer solutions for industrial applications.

We offer a range of standard spectrometer platforms as well as fully customizable configurations.
From input types (slits or fibers) to gratings, detectors, and electronic drivers, each system can be tailored to meet your exact requirements.

Conformity / Norms and compliance

HORIBA green policy
HORIBA has a strong and responsible environmental commitment with sustainable solutions through innovative eco-friendly technologies and designs.



info-sci.fr@horiba.com

www.horiba.com/scientific

France:	+33 (0)1 69 74 72 00	**Italy:**	+39 06 51 59 22 1	**Singapore:**	+65 (6) 745-8300
USA:	+1 732 494 8660	**Japan:**	+81(75)313-8121	**Taiwan:**	+886 3 5600606
Germany:	+49 (0) 6172 1396 0	**China:**	+86 (0)21 6289 6060	**Brazil:**	+55 (0)11 2923 5400
UK:	+44 (0)1604 542 500	**India:**	+91 (80) 4127 3637	**Other:**	+33 (0)1 69 74 72 00