



HSG Labs | Spectro



PRODUCT NAME:

HSG Labs Spectro

Re-engineered with efficient field use in mind, the Spectro v3.2 features a new user interface. The Spectro is not only designed for use with all cinema projectors including Laser, Xenon and UHP Lamps but thanks to the new calibration capabilities and accessories attachment it allows measurement of Direct-View video walls, LED, computer monitors and lab experiments.

Features and Benefits

- Cinema industry leading stand-alone spectrometer
- Portable device with fast alignment thanks to the integrated targeting laser pointer
- Accurate light and color readings for excellent repeatability
- Performs in ultra-low luminance environments with fast measurement integration time
- Superior pixel resolution provides more data points per nm.
- Internal switchable ND filter calibrated from factory for single chip color wheel projectors
- Software integration with 3rd Party calibration support:
 - ColourSpace (Light Illusion)
 - Calman (Portrait Displays)
 - Others upon request
- Increased calibration quality thanks to a new automated factory calibration process
- Custom spectrum calibration available and not restricted to the standard CIE Illuminant A

Product Enhancements

- Redesigned ergonomic chassis
- Hard and soft bag carry system for improved portability
- Reduced environmental impact using standard USB-C connector and embedded rechargeable battery with improved battery management for power saving capabilities
- Improved LCD touch screen resolution and viewing angle
- Adjustable handle for a better grip
- Magnetic and rail accessories attachment:
 - Filter Holder for 3D Glasses (magnetic)
 - Tube for contact measurement (magnetic)*
 - Broadband hybrid diffusers*
 - Picatinny Rail accessory*

*Available on request

Technical Overview

Spectral range	380nm to 780nm Photometric CIE values
Spectral bandwidth	FWHM: 2nm (1nm optional)
Pixel Resolution	0.15 nm/pixel
Color accuracy (Illuminant A)	± 0.0015 for CIE 1931 (xy)
Calibration*	NIST; CIE Illuminant A and custom Illuminant
Repeatability	$\leq 1\%$
Luminance range	0.005 to 200,000 cd/m ² With integrated ND filter
Luminance accuracy	$\pm 1\%$
Measuring values	cd/m or fL, Y, CCT/xy/u'v'/uv/wavelength peak
Measuring aperture	2° (FOV)
Power	USB-C, Li-ion with 4hr battery life
Dimensions	9" x 5.1" x 4"/229 x 130 x 103mm, 2.64lbs/1.2kg

*Calibration recommended every 1 year, dependent on requirements
Specifications are subject to change without notice

As recommended in the Barco training program for RGB projector calibration.