Prometheus SERIES

Viewfinder Spectrometer

Introducing the Prometheus Viewfinder Spectrometer, our brand new flagship for ultimate display measurements. Admesy's spectrometer with an integrated viewfinder is the true all-in-one display measurement solution.

The electronic viewfinder allows quick and precise alignment of the 1.2° measurement spot with the standard lens or the 1 mm to 1.5 mm measurement spot with the macro lens. Based on the Neo high-end spectrometer the optical performance satisfies the highest expectations. Finally, an integrated flicker sensor completes the whole package.

Like all Admesy series, Prometheus is robust for 24/7 use and easy to integrate in production environments.

Highlights

- Camera viewfinder with Pritchard mirror design
- Highly accurate and fast spectral measurements
- Integrated flicker photodiode
- Dark current compensation for extreme low luminance measurements
- Low noise and low stray light
- Excellent linearity
- Extremely low polarization sensitivity
- Internal wavelength monitoring
- Automatic motorized focus
- Internal shutter and ND filter wheel for large dynamic range
- Supports Windows, Linux and macOS
- Directly supported in Labview, LabWindows, Visual Studio (C#, C++), Python and Matlab via VISA library

ADMESY

admesy.com/series/prometheus

Accuracy, Speed & Ease of Use

Admesy has specialized in developing and manufacturing measurement solutions you can trust and rely on. The Prometheus Viewfinder Spectrometer is no exception. It is an ideal device for measurements where accuracy, ease of use, stability and performance are the essence. You are looking for a versatile instrument for R&D? Or you need a robust solution for hassle free integration in your production process? You need to set up process control for displays? All those applications can be perfectly covered with the Prometheus Viewfinder Spectrometer.

Due the integrated electronic viewfinder it is a breeze to set up the Prometheus Spectrometer accurately aligning the wanted measurement spot. For documentation purposes a picture of the measurement area can be saved. A great option for the automation in quality control or to document measurement setups in the development stage.

From the technical side you can expect the best from the Prometheus Spectrometer. It utilizes a high-end cooled CCD detector for low noise and high dynamic range and internal wavelength monitoring. Highest accuracy for your spectral and colorimetric readings from low to high luminance are the result. Last not least the integrated flicker measurement option completes the all-in-one display measurement solution.

Specifications

Model	Prometheus Spectrometer with Viewfinder
Viewfinder optics	1.2° standard lens or close up lens available
Spectrometer spectral range	360 nm – 930 nm
Luminance range	0.0005 cd/m² – 6 000 000 cd/m²
Luminance accuracy	± 2 %
Color accuracy (x,y)	± 0.002
Non-linearity	< ± 0.5 %
Spectral resolution FWHM	~ 2.8 nm
Order sorting filter	Linear variable filter
Wavelength accuracy	± 0.15 nm
Stray light	~ 0.05 % (measured @ 400 nm with 455 nm cut-off filter with A-light source)
Detector	High-end Hamamatsu cooled detector (S7031)
Dark noise (RMS)	~ 3 to 5 counts (16 bit ADC)
S/N*	> 1300
Filter wheel	OD0, OD1, OD2 and shutter
Integration time	4.8 ms – 10 minutes
Cooling temperature	–10 °C
Flicker measurement speed	186 567 samples/second. Memory for 1 000 000 samples.
Viewfinder camera	5.1 MP
Interfaces	USB 3, RS232, Ethernet, Trigger connections
Measurement parameters	Spectral output, radiometric data or color data (Lumen, x,y, DWL, PWL, CRI, CCT, etc.), flicker and response time
Size	(LxWxH) 373 mm x 240 mm x 152 mm
Weight	7 kg

Download the brochures with detailed specifications from admesy.com/downloads

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