

# Helios<sup>SERIES</sup>

## Helios Y 65 MP Imaging Luminance Meter

The Helios Series consists of imaging colorimeters as well as luminance meters. The Helios Y 65 MP Imaging Luminance Meter is combining a CMOS sensor with Admesy's high accuracy interference based Y filter. In order to compensate for the angle effects of the lens a special design was developed for the filter (patent pending). This sets the Helios Y apart from any other solution on the market when accuracy is key.

### Highlights

Highly accurate and uniform Y filter, in-house made

Large aperture, ideal for low luminance measurements

Automatic aperture and focus control by software commands

Flatfield calibrated for several apertures

Automatic correction for flatfield over applied aperture and focus distance

Dark current compensated

Several lens options, optional OD filters



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[admesy.com/series/helios](https://admesy.com/series/helios)

# Luminance Uniformity & High Speed



When producing displays it is vital to be able to assess the luminance quickly over the display area. Both to ensure a uniform image for each driving level as well as applying the tonal target response by applying the gamma correction.

Similar when integrating displays into electronic devices, cars or other applications it is important to accurately characterize the display performance for quality control. The Helios imaging systems were developed to satisfy these needs in a perfect way.

Admesy places a strong emphasis on creating and producing devices that prioritize accuracy, ease of use and speed.

Leveraging the 18 years of experience of our R&D team and a highly integrated manufacturing approach, we have incorporated several unique patent pending features to push the accuracy limits of the Helios imaging systems even further.

Just like all Admesy devices, Helios Y 65 MP is suitable for continuous 24/7 operation, simple to integrate into production settings and provides a great price-performance ratio.

## Specifications

Model	Helios Y 65 MP Imaging Luminance Meter
Lenses supported	50 mm (FOV $\pm 20.5^\circ$ ), 85 mm (FOV $\pm 12.4^\circ$ )
Focus and aperture	Electronically controlled F#2.0, F#2.8, F#5.6, F#8.0
Working range	400 mm to 2 000 mm for 50 mm lens 850 mm to 2 000 mm for 85 mm lens Working range is defined from body of device to object being tested
Detector	65 MP gpixel detector
Spectral response	Approximates CIE 1931 color matching function (Y < 3%, f1 error)
Luminance accuracy	$\pm 3\%$
Non-uniformity after flat field calibration	$\pm 1\%$
Resolution	9 344 x 7 000
Dynamic range	65 dB
Weight	~ 900 g (without lens)
Operating temperature	10 °C – 35 °C

Download the brochures with detailed specifications from [admesy.com/downloads](https://admesy.com/downloads)

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