

Line photometry module type



Summary of Content

Line photometry modules, such as linear image sensor modules, are designed for precise measurement of light intensity along a line, supporting CMOS sensors with flexible interfaces for industrial and scientific applications.

Overview of Line Photometry Modules

Line photometry modules are specialized sensors that measure light intensity along a single line rather than across a full area. These modules are widely used in industrial automation, quality control, and scientific research where high-resolution, linear light detection is required. They are particularly useful for applications such as spectroscopy, process monitoring, and imaging of moving objects.

Key Features

- **Sensor Type:** Most line photometry modules use CMOS linear image sensors, which provide high sensitivity and fast readout capabilities .
- **Interfaces:** Modules often support I2C interfaces for simple communication or parallel bus interfaces for high-speed data transfer to FPGAs or microcontrollers .
- **Resolution and ADC:** High-resolution modules, such as the LISM-PI26xx, include 16-bit ADCs for precise intensity measurement .
- **Triggering and Timing:** Flexible trigger options allow synchronization with external events or moving objects, ensuring accurate line-by-line photometric data .
- **Modular Design:** Many modules are designed to be adaptable to different sensors, allowing customization for specific wavelength ranges or measurement requirements

Article Content

Process photometers for UV absorption, NIR, VIS & turbidity | Endress ...

Process photometers for UV absorption, NIR and VIS provide precise and compliant inline concentration, color and turbidity

What are the different data collection modes of a typical ...

Photometric mode allows for a table of wavelengths to be defined and collected. This process is usually performed to save time since

AMS 3000/5000

Optronik Line The AMS 3000 and AMS 5000 goniophotometers can be combined with different devices in order to cover all the

Line sensors | Hamamatsu Photonics

Line sensors InGaAs linear image sensors are one-dimensional image sensors for the visible (VIS), near infrared

Lights, fiber, action! A primer on in vivo fiber photometry

Fiber photometry is a key technique for characterizing brain-behavior relationships in vivo. Initially, it was primarily

Headlamp Test Platform | Automated Automotive Test | Avera

Photometric hardware variants include, complete headlamp testing, module testing and module absolute photometry. It is compatible

Multi-Wavelength Photometry Quick Start Guide

Connect the cameras on the Multi-wavelength Multi-fiber Photometry Module (9) to the Computer (16) using the two USB3 cable type

Photometry in Physics: Principles, Types & Applications

Discover how photometry helps measure light in physics. Master key concepts with Vedantu's easy guides-start learning now!

GuPPy, a Python toolbox for the analysis of fiber photometry data

Fiber photometry data used here to illustrate the functionality of GuPPy was collected using a fiber photometry rig

2.1.5: Spectrophotometry

Expand/collapse global hierarchy Home Bookshelves Physical & Theoretical Chemistry Supplemental Modules (Physical and

Graphics and CAD Programs

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

How optek inline sensors work to monitor your process

optek systems consist of 5 main components. A converter, cable set, sensor body, light source and a detector assembly. Customized

Photometers & Photometric Systems — Sapphire Technical Solutions

It supports standard 100base-T Ethernet and utilizes a wide range of accessories and attachments for a wide range of applications.

Photometers & Colorimeters

The Optronik Line tristimulus colorimeters are based on 4 silicon photodiodes, i.e. one detector each for Y and Z and 2 detectors for

What is Photometry Testing?

What is photometry testing? ITC India Pvt Ltd owns the scope of Accreditation to perform the following repetitive photometric

Introduction to Photometry

Find out here which photometric measurement methods are available. Introduction to Photometry Photometric

Best practice mass photometry: a guide to optimal single ...

In mass photometry, the optical contrast generated by individual molecules at a glass-water interface enables mass

1.7 Basic Photometric Quantities

One of the central problems of optical measurements is the quantification of light sources and lighting conditions in numbers directly

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Lighting Metrics and Photometry Guide

FUNDAMENTALS OF LIGHTING: MODULE 6 METRICS, PHOTOMETRY, CALCULATIONS, AND RENDERING Illuminating

How to read a photometric plan?

ISO-lines- ISO is a Greek term that means equal. Therefore, ISOLine is a line that joins equal parts. In photometry, ISOLines help

System Photometry Module (PM100 / PM150) Specifications

illumiaPlus.pdf System Photometry Module (PM100 / PM150) Specifications

Photometers

Visual photometry uses the eye as a comparison detector, while physical photometry uses either optical radiation detectors

An introduction to photometry and photometric measurements

What is photometry? Photometry is concerned with obtaining quantitative physical measurements of astrophysical objects using

Home | Hamamatsu Photonics

The official website of Hamamatsu Corporation whose mission is to advance science and industry through photonic technologies.

Photometers Optronik Line: Radiometry vs. Photometry Insights

Explore the principles of photometry and radiometry, including the CIE V function and photometric units, essential for accurate light

Contact Us

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