

Spanish Dual-Channel Spectrometer



Overview

CARMENES is an ultra-stabilised, dual-channel, high-resolution echelle spectrograph installed at the 3.5 m Calar Alto telescope in southern Spain. Each spectrometer can be configured independently. Its design features fiber-fed visible and near-infrared arms housed in vacuum chambers with advanced calibration, achieving sub-m/s stability. For the EVO series, a USB3 and an Ethernet version are available. The Ethernet version (ETH) supports standard. Two sets of quadrifold spectra are used for diffraction and imaging in the upper and lower focal plane of the Dhyana 90A camera, respectively. The quantum efficiency of the camera at 400nm is about 90%. In addition to the cost-effective advantages of the spectroscopic system, the compact design of. ents and tungsten halogen lamp for NIR measurements. Suitable to be used with a very simplified set-up for screen-printed electrode be used in combination with both cells if required.



Article Content

Dual-channel snapshot imaging spectrometer with wide spectrum and

While current snapshot systems face major challenges in the development of wide working band range as well as high resolution, our novel dual-channel snapshot imaging spectrometer

Spectral Imaging with a Dual-Channel BSI-CMOS

Dual-channel spectrometer based on a shared BSI-CMOS detector — 200–950 nm coverage, sub-0.1 nm resolution — ideal for multi-source spectral analysis.

Multi-Channel CCD Spectrometers

Irradiance calibration service Optical spectrometers Cosine corrector Cuvette holders White reflectance standards Fiber optics collimators Full-spectrum LED sources

Optical Design and Investigation of A Dual-Interference

PDF | We demonstrate a novel tempo-spatial mixed-modulation Fourier-transform infrared imaging spectrometer. The static interference channel

High repetition-rate dual-channel X-ray spectrometer for high-intensity ...

We describe the development and demonstration of a high-repetition-rate-capable dual-channel (DC) x-ray spectrometer designed for high-intensity laser-plasma experiments ($\geq 1 \times 10^{21}$

Development of high throughput Dual Laser system incorporating

Abstract In this article, the development of a commercial high throughput system incorporating a multichannel CCD-based Czerny - Turner spectrometer for real-time fluorescence

Multichannel Spectrometer System | StarLine | Avantes

You can select the right option from our range of detectors, and choose different slits and gratings: anything is possible. For the EVO series, a USB3 and an Ethernet

Multi-channel-Spectrometer | CNILaser

Multi-channel Spectrometer CNI developed Rainbow series Multi-channel spectrometer with the features of wide spectral range and high resolution. With synchronous delay device to ensure synchronous

Multi-Channel Dual-Sample Chamber Fourier Transform Infrared Spectrometer

The AT-61072 Multi-channel Dual-sample Chamber Fourier Transform Infrared Spectrometer is an innovative, domestically produced research-grade Fourier transform infrared spectrometer designed

AvaSpec Dual-Channel Fiber-optic Spectrometer

Sometimes a single channel spectrometer is not enough, for example when you want higher resolution or to do two redundant measurements at the same time. The AvaSpec dual channel spectrometers

Dual-Channel Spectral Domain Optical Coherence Tomography

In this study, we design a dual-channel SD-OCT system based on a single spectrometer. Dual-channel spectral data are separated by introducing an optical path offset between two channels

Optical spectrometer

Sometimes a single-channel spectrometer is not enough, for example, when you want higher resolution or perform two redundant measurements simultaneously.

Dual-Channel Spectrometers

Sometimes a single-channel spectrometer is not enough, for example, when you want higher resolution or perform two redundant measurements simultaneously. The AvaSpec dual-channel spectrometers

Multichannel Spectrometer System | StarLine | Avantes

Ordering Information ... Dual-Channel Spectrometers More information CompactLine spectrometers In applications where size matters, the CompactLine with its

A High-Performance Spectrometer with Two Spectral Channels

Optical spectrometers play an important role in modern scientific research. In this work, we present a two-channel spectrometer with a pixel resolution of better than 0.1 nm/pixel in the wavelength range

High-Performance Dual Raman Spectrometer*

Instituto de Estructura de la Materia, CSIC, Serrano 123, 28006 Madrid, Spain The transformation of an old Raman double monochromator into a dual spectrometer capable of working either as the original

AVA Multichannel Spectrometer - Mountain Photonics

For desktop instruments with up to 4 channels, the AVS-DESKTOP housing with either USB3 or Ethernet interface is available to accommodate up to 4 spectrometer or light source modules.

Dual-channel polarization imaging spectrometer

A static dual-channel polarization imaging spectrometer which can simultaneously acquire inphase and antiphase interference images by using a single CCD camera is presented

Multi-channel spectrometer

Find your multi-channel spectrometer easily amongst the 41 products from the leading brands (Shimadzu, Bruker, Malvern Panalytical, ...) on DirectIndustry, the industry specialist for your

Portfolio Metrohm means Highlights Spectroscop

Based in Oviedo, Asturias (Spain), Metrohm DropSens is a leading company in R& D, design and manufacturing of high quality products for electrochemical, spectroelectrochemical and

S150 Duo: Compact Two-Channel Spectrum Analyzer

S150 Duo: Compact Two-Channel Spectrum Analyzer The S150 Duo spectrometer from SOL instruments is designed for spectral analysis of electromagnetic radiation, for precise

FLASH \$^{+}\$ —A Dual-Channel Wide-Band Spectrometer for APEX

FLASH+ —A Dual-Channel Wide-Band Spectrometer for APEX Abstract: We report on the design and on-site performance of the recently upgraded FLASH + instrument operated at the

Spectral Imaging with a Dual-Channel BSI-CMOS

In addition to the cost-effective advantages of the spectroscopic system, the compact design of the spectrometer enables simultaneous measurement of multiple spectra.

AvaSpec Dual-Channel Fiber-optic Spectrometer

- Dual-channel AvaSpec-EVO Fiber-optic Spectrometer with 2 channels with the same detector in one housing, including synchronization cable. For both channels specify Detector type EEEE

Dual Channel Spectrometer with USB Cable

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(PDF) Calibration of Dual-Channel Raman Spectrometer

Therefore, to satisfy the calibration requirements of a dual-channel portable Raman spectrometer with a wide spectral range, this study designed a

CARMENES: Dual-Channel Exoplanet Spectrograph

CARMENES is an ultra-stabilised, dual-channel, high-resolution echelle spectrograph installed at the 3.5 m Calar Alto telescope in southern Spain.

Contact Us

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