

Development of a Multichannel Spectrometer



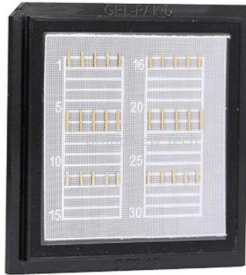


Overview

We devised a novel type of multichannel Fourier transform spectrometer (MCFTS) that incorporates a Wollaston prism, polarizing interferometer combined with two Savart plates and a phase-retarding plate. This MCA system is developed using a NI-USB 6363 data acquisition device with a sampling rate of 2 MS/s. ing a supercontinuum laser allowing us to measure the coefficient of absorption and scattering of up to 16 multiplexed wavelengths in the near infrared region.



Development of a Multichannel Spectrometer



Development of a multi-channel time-to-space terahertz

We present a compact sensor head for a multi-channel terahertz (THz) spectroscopy system. A THz pulse generated by a photoconductive antenna is

[Contact Us](#)

High-Density Arrayed Spectrometer with Microlens Array

To enable multi-channel parallel spectral analysis in array-based devices such as micro-light-emitting diodes (Micro-LEDs) and line-scan spectral



[Contact Us](#)



Miniature integrated spectrometers towards high-performance and

Therefore, developing a new type of miniaturized, low-cost, and integrated spectrometer is necessary and urgent.

[Contact Us](#)

Chapter 24 Development of a Near Infrared Multi

Luke Dunne, Jem Hebden, and Ilias Tachtsidis
Abstract We present a novel time domain functional near infrared spectroscopy system using a supercontinuum laser allowing us to measure the coefficient of



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

[Contact Us](#)



Characterization of multichannel SDD X-ray spectrometer with ASIC

This work reports the development of a multichannel Silicon Drift Detector (SDD) based X-ray spectrometer with application-specific integrated circuit (ASIC) readout aimed at flying in future

[Contact Us](#)



(PDF) A systematic literature reviews of multichannel

FPGA to develop digital MCA for gamma spectroscopy applications. Many research datasets related to the development of MCA based FPGA for

[Contact Us](#)



Development of a multichannel Fourier-transform spectrometer to

A Fourier-transform spectrometer equipped with a Savart-plate polarization interferometer was developed for observation of weak chemiluminescence and

[Contact Us](#)



Development of a multichannel Fourier transform spectrometer

We devised a novel type of multichannel Fourier transform spectrometer (MCFTS) that incorporates a Wollaston prism, polarizing interferometer combined with two Savart plates and a phase-retarding plate.

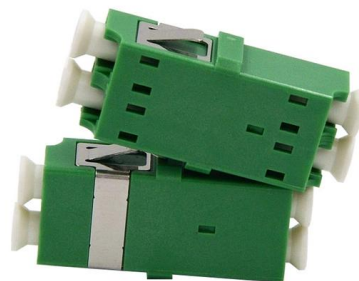
[Contact Us](#)



Development of a multi-channel time-to-space terahertz spectrometer

We present a compact sensor head for a multi-channel terahertz (THz) spectroscopy system. A THz pulse generated by a photoconductive antenna is split into spatially separated sub

[Contact Us](#)



Wideband digital multi-channel merge-split fast Fourier transform

We developed a wideband multi-channel merge-split fast Fourier transform spectrometer (FFTS) using analog-to-digital convertors (ADC) for signal sampling and field-programmable gate

[Contact Us](#)



Development of a multi-channel readout ASIC for a fast neutron

Abstract and Figures A multi-channel front-end ASIC has been developed for a fast neutron spectrometer based on Gas Electron Multiplier (GEM)-Time Projection Chamber (TPC).

[Contact Us](#)



Chapter 24 Development of a Near Infrared Multi

. In order to address these issues we have designed and built a near infrared time domain multiwavelength spectrometer using a supercontinuum laser sou.

[Contact Us](#)

Development of a zero-cost multichannel analyser based on digital

This paper reports the development of a DSP-based MCA system which utilises the in-built ADC of the sound card to digitise (record) the signals from a radiation detector.

[Contact Us](#)



Multi-channel fiber optical spectrometer for high-throughput

Thanks to national efforts, the Materials Genome Initiative further promotes the development of high-throughput experimental technology. A multi-channel fiber optical spectrometer

[Contact Us](#)



Integrated reconstructive spectrometer with programmable photonic

Here, authors present a novel integrated spectrometer with programmable photonic circuits, achieving record-high resolution and bandwidth via only a few filtering components.

[Contact Us](#)



Development of a multichannel Fourier transform

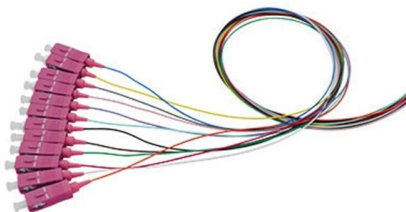
We introduce a spectrometer capable of measuring sample absorption spectra in the visible regime, based on a time-domain scanning Fourier transform

[Contact Us](#)

Development of a multichannel Fourier-transform spectrometer to

To improve the quality of CL spectra in ultraviolet and visible regions, it is essential to observe 'continuous' and well-resolved signals with the highest possible accuracy. For this purpose,

[Contact Us](#)



Scalable on-chip diffractive speckle spectrometer with high spectral

The proposed speckle spectrometer based on diffractive metasurfaces achieves a high spectral density which is promising to develop ultra-compact and high-performance spectrometers.

[Contact Us](#)



Gamma spectroscopy

Gamma-ray spectroscopy is the qualitative study of the energy spectra of gamma-ray sources, such as in the nuclear industry, geochemical investigation, and

[Contact Us](#)



Development of a portable optical device with a multi-channel

Request PDF , Development of a portable optical device with a multi-channel spectrometer sensor for quantification of glycerol in wine: a maker approach for on-site analysis , In

[Contact Us](#)



Development of a multichannel time-to-space THz spectrometer

We present a sensor head, which splits a THz pulse into spatially separated sub-pulses. The time-dependent order of the sub-pulses gives a spatial resolution by using only one pair of antennas.

[Contact Us](#)



PIMORONI AS7262 6-channel Spectral Sensor (Spectrometer) Breakout

About this item The AS7262 by AMS is a cost-effective, highly integrated multi-spectral sensor-on-chip designed specifically for spectral identification applications. This compact sensor provides 6-channel

[Contact Us](#)





Development of a multi-channel readout ASIC for a fast neutron

A multi-channel front-end ASIC has been developed for a fast neutron spectrometer based on Gas Electron Multiplier (GEM)-Time Projection Chamber (TPC). Charge Amplifier and Shaping Amplifier

[Contact Us](#)



Development of a multichannel Fourier transform

We devised a novel type of multichannel Fourier transform spectrometer (MCFTS) that incorporates a Wollaston prism, polarizing

[Contact Us](#)



Contact Us

For datasheets, pricing, or custom fiber access solutions, please visit:
<https://www.frindel.es>