

# INTRODUCTION

Dear customer,

After being in this industry for over 25 years, I am still excited and proud to present to you our new catalog. In this edition, we showcase all of our instruments and accessories for fiber-optic spectroscopy.

As the leading innovator in the development and application of miniature spectrometers we continue to develop and introduce new instruments. Avantes' instruments and accessories are also integrated into many OEM applications in many industries and markets throughout the world. With a quarter of a century of experience in fiber optic spectroscopy and thousands of instruments in the field, Avantes is eager to help our customers with Enlightening Spectroscopy.

Avantes works with customers in a variety of markets, including chemical, (bio)medical, environmental, glass & coating, life-science, chemistry, lighting semiconductor, agricultural and food processing technology. Additionally, Avantes works with research organizations and universities, aiding in

developing research and teaching opportunities.

Our OEM program is designed to work with our customers to identify needs and customize an Avantes' spectroscopy solution based on our customer's needs and Avantes technical knowledge and experience. Avantes' continued growth is based upon a commitment to providing exceptional technology and superb customer satisfaction.

Avantes engineering, manufacturing, sales and service headquarters are located in the Netherlands.

The company also operates direct offices in China and North America. In addition, Avantes has a growing worldwide distribution network of more than 40 qualified distributors to meet our customers' needs worldwide.

In this catalog you will find a complete and detailed overview of our products. As we are continuously improving our products and introduce new instruments regularly we recommend to check the digital version on our website for an up-to-date version of this catalog.

We are looking forward to building up a long term relationship with you.



Benno Oderkerk

CEO and founder of Avantes

## OUR MISSION

We provide state of-the-art, innovative measuring equipment that helps mankind live longer, healthier lives, and saving the planet for generations to come.

## VALUES

Avantes is the innovative, trusted leader in high-quality and customer oriented optical instruments and solutions. We achieve this through service oriented thinking and acting, encouraging and motivating each other with a positive, critical and professional attitude.

## VISION

To enrich the lives of mankind in the world we live in.

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# NEW IN THIS CATALOG

## AvaSpec-Mini-NIR256-1.7

The latest addition to our popular CompactLine Mini-series: the AvaSpec-Mini-NIR! This compact, versatile near-infrared spectrometer operates in a 900-1750 nm range and is suitable for various applications, including food analysis and recycling.

**Find out more on page 31!**



## AvaSpec-ULS2048x64TEC-EVO

Updated and improved: this spectrometer has a thermoelectrically cooled, back-thinned detector that enables long integration times with low noise levels. The cooling of this spectrometer can reduce the temperature of the CCD chip to -30°C against ambient.

**Find out more on page 45!**

## AvaSpec-ULS2048x64-EVO

More cost effective than the cooled version but with the same pixel count, the AvaSpec-ULS2048x64-EVO is a great choice for applications that require integration times lower than 2 seconds. This uncooled spectrometer has an established track record in various DOAS applications.

**Find out more on page 49!**



## Direct-Attach Shutter

This remote-controlled shutter, positioned between the spectrometer entrance and the input fiber, is the ideal accessory to quickly and automatically take dark measurements without having to cover the sensor, switch off your light source or perform other manual actions.

**Find out more on page 152!**

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