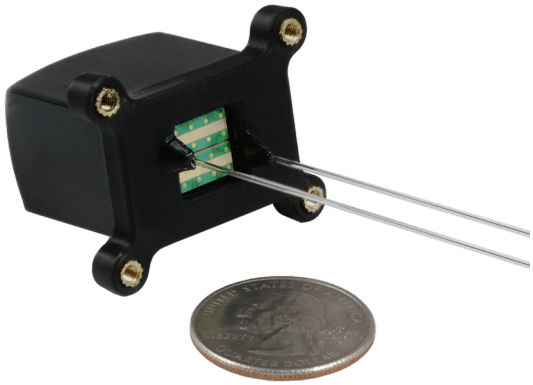
HOLOGRAPHIX®
A Headwall Company

DATA SHEET

MicroSpec™ Duo Spectrometer

For OEM Instruments



FEATURES

- Incredibly Tiny Footprint
- Exceptional Performance
- Unmatched Versatility
- Rugged Construction

The Holographix® MicroSpec™ platform is engineered to be the heart of your spectral system. Designed for seamless integration into OEM devices, the two-channel MicroSpec Duo combines exceptional performance, rugged construction and unmatched versatility in an incredibly small footprint.

COMPACT POWER, OEM-READY PERFORMANCE

Despite its miniature < 27 x 29 x 19 mm size at only 30 g, the MicroSpec Duo delivers the precision and reliability needed for demanding spectral power measurements—ideal when space is at a premium but accuracy cannot be compromised.

TAILORED TO YOUR APPLICATION

Built on the MicroSpec platform, your module can be configured to meet the exact requirements of your system design for applications such as:

- Precision Color Measurement
- Food Inspection
- Light-Level Measurement
- Handheld POC Devices

DATASHEET

MICROSPEC™ DUO SPECTROMETER
For OEM Instruments

We offer SMA-compatible and free-space interfaces for flexible light delivery, a variety of detector types and array configurations to best match your wavelength region and measurement needs, and options to suit your electronics architecture and processing chain.

- Fiber-Optic Input Options
- Custom Slit Sizes
- Sensor Customization
- Flexible Mounting Options
- Data-Output Configurations

WHY OEMS CHOOSE MICROSPEC

- **Small Size, Big Capability** without sacrificing measurement quality, even in space-constrained designs
- **Light Weight** for Handheld or Portable Systems
- **Rugged** to withstand vibration, temperature variation, and operational stress in the field or factory
- **Custom-Ready** to optimize performance in your device

Our team works directly with you to configure optical, mechanical, and electronic elements for the very best solution.

MICROSPEC DESIGN PARAMETERS CONFIGURABLE & CUSTOMIZABLE[1]	
Spectral Range	400 – 780 nm[2]
Spectral Resolution (FWHM)	< 11 nm[3]
Spectral Channels	309
Numerical Aperture	0.22
Slit Length	500 µm
Slit Width	50 µm
Optical Input	SMA-type / Free Space
Detector	Hamamatsu S10227-10
Number of Pixels	512
Pixel Size	12.5 µm x 250 µm
Dimensions (sans connectors)	< 26.6 x 28.9 x 18.6 mm
Weight	30 g
Mechanical Interface	Customer Specified
Body Material	ABS thermoplastic

[1] Contact us to determine your optimal design parameters
[2] Free of Order Overlap
[3] Nominal with Hamamatsu® S10227-10 detector and 50 µm slit

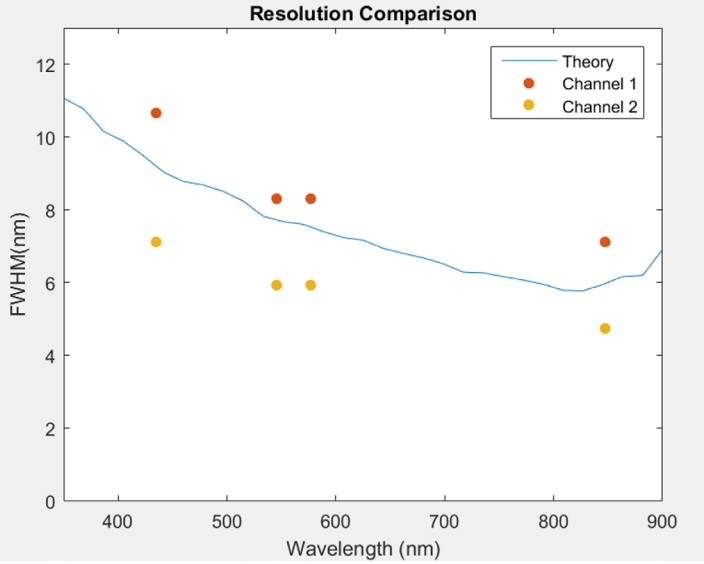


Figure 1. From the measured HgNe spectrum, FWHM (nm) for 4 lines was calculated using sub-pixel interpolation.

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