HOLOGRAPHIX®
A Headwall® Group Company

DATA SHEET

MD5 Dual Beam Spectrographs

For OEM Instruments

Headwall's MD5 spectrographs are pre-aligned optical modules designed to easily integrate into your instrument, saving you development cost and reducing your time to market. The MD5 family is a rugged, proven design configurable for your particular application.

FEATURES

- Designed for precision color measurement
- Two channel operation
- Compact form factor
- Imaging onto a single detector simplifies calibration and reduces BOM cost

DATASHEET

MD5 DUAL BEAM SPECTROGRAPHS
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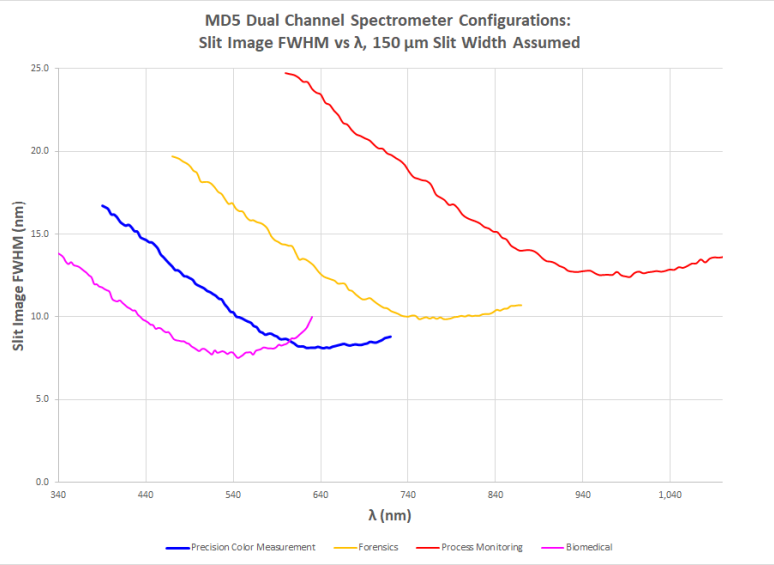
COST EFFECTIVE, HIGH PERFORMANCE

The customizable MD5 can be manufactured in high volume with high- throughput (NA 0.25, f/2.0) and low stray light. Once installed in your product, the modular design requires no mechanical or optical adjustment. The dual-beam design disperses both sample and reference spectra onto a single 0.5" array, saving on detector and electronics cost.

Headwall products are used by a majority of companies manufacturing and selling precision colorimetry instruments. These companies value the elegant design, consistent quality, and color-corrected sinusoidal gratings made in-house, hallmarks of Headwall products supplied to our OEM customers.



MD5: Slit image FWHM vs ʎ, 150µm slit width assumed.

Looking inside the MD5

DESIGN PARAMETERS*				
Recommended Applications	**Precision Color Measurement**	**Forensics**	**Process Monitoring**	**Biomedical**
Spectral passband	390-720nm	470-870nm	545-1100nm	340-630nm
SR (FWHM)	8-17nm	10-22nm	12-25nm	8-14nm
SSI (mean)	2.7nm/pixel	3.3nm/pixel	3.8nm/pixel	2.4nm/pixel
Samples per channel	128			
Detector package	Hamamatsu S3901-256Q			
Space claim (L x Dia)	70 x 42mm			
Slit dim (LxW)	Customizable, 150µm recommended**			
Numerical aperture	0.25 (f/2.0)			
Input coupling	Multi-mode Fiber, SMA, or ferrule			

*Approximate and subject to change without notice.
**Other slit widths are available on request

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