



Electro Optical Components, Inc.

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Spectral Imaging System UV

The Spectral Imaging System UV is a high performance spectral imaging system designed for UV applications that require deep UV wavelength range and good imaging performance.



This spectral imaging systems is based on a transmissive optical design, but with a reflection grating with AR-coated lenses.

By replacing the standard input slit and lens with a multichannel fiber input, the spectrograph can be used as a multichannel-spectrometer.

Spectrograph	
spectral range	190 – 380 nm
dispersion	14,2 nm/mm
spectral resolution	< 2 nm (with 80 µm slit)
image size	13.3 (spectral) x 13.3 (spatial) mm
spatial resolution*	rms spot radius < 58 µm
smile	< 126 µm
keystone	< 14 µm
f-number	4.38
slit width, default	80µm (others on request)
efficiency	> 50% independent of polarization
Electronics	
sensor	Backlit CCD
pixels in full frame	1024 x 1024
pixel size	13 x 13 µm
bit depth	16 bit
frame rate	~ 2 fps
data interface	USB2
power consumption	< 40W
supply	12 V
special feature	triggering / cooling
Mechanics	
dimensions l x w x h	200 x 50 x 127
housing	anodised aluminium
weight	< 4 kg
lens mount	standard C-mount
Operating Conditions	
temperature (operating)	-5 °C - +40 °C
temperature (transport)	-10°C - +50°C

* depending on the fore optics used



Optical Quality

Our engineers bestow great care on selecting all optical, mechanical and electronic parts. This means:

- AR-coated optics
- Polarization free optical design

Customized Solutions

Our UV Spectral Imaging System is available for the standard wavelength range of 190-380 nm in the MIR.

If the application requires dedicated optics, wavelength ranges or software tools, customization can be done without large NRE costs.

inno-spec also offers accessories and Spectral Imaging Systems for the visible, VNIR, NIR or MIR wavelength range.

Accessories

- Fiber optic adapters to use the spectral imaging system UV as a multichannel-spectrometer.
- Mounting accessories
- Fore optics (12 / 25mm)

