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INNO-SPEC
Visualize Invisibility

Imaging Transmission Spectrograph IST-UV 2440

Imaging spectrographs by inno-spec are developed for challenging applications in hyperspectral imaging. They feature a robust design and in combination with a camera built up a spectral imaging system.
Our UV spectrograph is optimized for the use with CCD or CMOS cameras having response in the UV wavelength range. An essential intension in the design of the spectrographs is a homogenous distribution of light over the whole spatial area.

Spectrograph	
spectral range	240 – 400 nm
dispersion	23.5 nm/mm
spectral resolution	< 1 nm (with 30 µm slit)
image size	8 (spectral) x 8 (spatial) mm
spatial resolution*	rms spot radius < 30 µm
smile	< 40 µm
keystone	< 15 µm
numerical aperture	F/2.0
slit width, default	30µm (others on request)
efficiency	> 50% independent of polarization
Mechanics	
dimensions l x w x h	171 x 50 x 63 mm
housing	anodised aluminium
weight	0.9 kg
lens mount	standard C-mount
Operating Conditions	
temperature (operating)	+5 °C - +50 °C
temperature (transport)	-10°C - +50°C

* depending on the fore optics used and the sensor size

Like most inno-spec spectrographs the IST-UV 2440 is based on transmission optical design with AR-coated lenses, a VPH grating as dispersive element and without moving parts.
By replacing the standard input slit and lens with a multichannel fiber input, the spectrograph can be used for a multichannel-spectrometer.

Optical Quality

Our goals are:

- High light throughput due to high diffraction efficiency of transmission VPH grating, and AR-coated optics
- Polarization free optical design

Customized Solutions

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

inno-spec also offers compatible cameras, line lighting, accessories and spectral imaging systems for the NIR, VNIR, VIS wavelength range.

Accessories

- cameras
- DC-Halogen light sources in modular sizes
- fiber optic adapters to use the Spectral Imaging System as a multichannel-spectrometer.
- Mounting accessories
- Fore optics