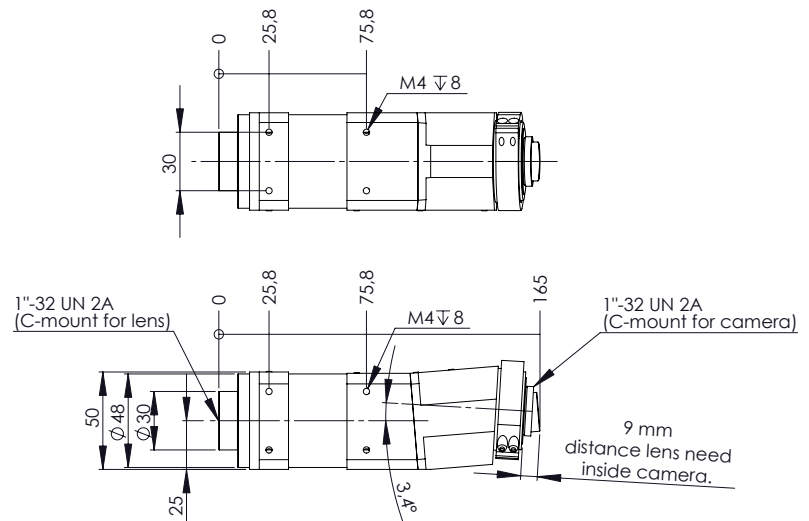


IMPECTOR ^{UV}

SPECIM's ImSpector series offers a unique imaging spectrograph for UV range. The spectrograph can be integrated with a UV sensitive CCD or CMOS camera, which when combined, creates a line-scan spectral imaging device. ImSpector UV4E provides high image quality and optical throughput from 200 - 400nm.

Ultraviolet wavelength range

| IMPECTOR | | UV4E |
|--------------------------------------|--|--|
| Optical characteristics | | |
| Spectral range | | 200 - 400nm |
| Dispersion | | 56.5nm/mm |
| Spectral resolution *1 | | 2nm (30µm slit) |
| Bending of spectral lines | | Smile ± 0.1nm |
| Image size | | 3.54 (spectral) x 8.8 (spatial) mm |
| Magnification | | 1 : 1 |
| Spatial resolution *1 | | rms spot radius < 30µm |
| Bending of spatial lines | | Keystone ± 3µm |
| Optical input | | Telecentric |
| Numerical aperture | | F/2.8 |
| Average efficiency | | > 50%, independent of polarization |
| Slit width, default | | 80µm (50µm slit available) |
| Slit length | | 9.3mm |
| Mechanical characteristics | | |
| Body | | Anonized aluminium |
| Size | | (W)50 x (H) x 55 x (L) 165mm |
| Weight | | 320g |
| Lens and camera mount | | Standard C-mount adapter |
| User adjustments | | Rotating image axis relative to detector rows Adjustable back focal length ±1mm |
| Environmental characteristics | | |
| Storage | | -20 ... +80 °C |
| Operating | | Non-condensing +5 ... +40 °C |



ImSpector UV4E mechanical dimensions

Options, accessories

- Order blocking filter OBF260 (rectangular, 14 x 12mm)

*1 System spectral and spatial resolutions also depend on the discrete imaging nature of detector and objective lens quality.



ImSpector UV4E spectrograph, side view



ImSpector UV4E spectrograph, front view