



**ImSpector V8/V10**



**ImSpector V10E**



**ImSpector N17E**

## OPTIONS, FORE OPTICS

- Fore optics, Standard series: OL8, OL12, OL17, OL23 and OL35 for 2/3" or smaller detector.
- Fore optics, Enhanced series: OLEWIDE, OLE18.5, and OLE23 for 2/3" or larger detector. Optimized for Enhanced series.
- Fore optics, OLESMACRO, OLES9, OLES15, OLES22.5, OLES30 and OLES56 for N17E

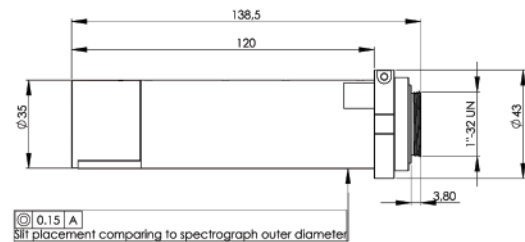
## OPTIONS, ACCESSORIES

- Mechanical shutter (Enhanced series)
- Collection fiber optics
- Order blocking filters; OBF 570 (rectangular 14 x 12mm or circular 20mm Ø and 17mm Ø) for V10 and V10E

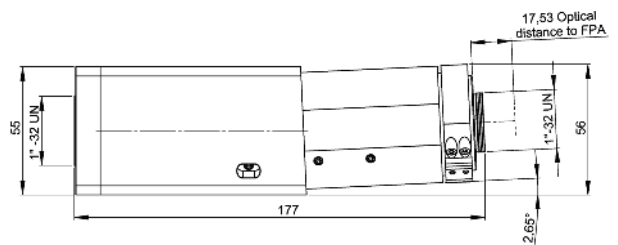
Specim ImSpectors are designed for the VIS (380 - 800 nm), VNIR (400 - 1000 nm) and NIR (900 - 1700 nm) wavelength ranges. These spectrographs provide a straightforward, high performance, yet cost-effective method of integration. When combined with scientific grayscale CCD or CMOS cameras or InGaAs sensor, the combination provides a line-scan Spectral Imaging device.

## DIMENSIONS

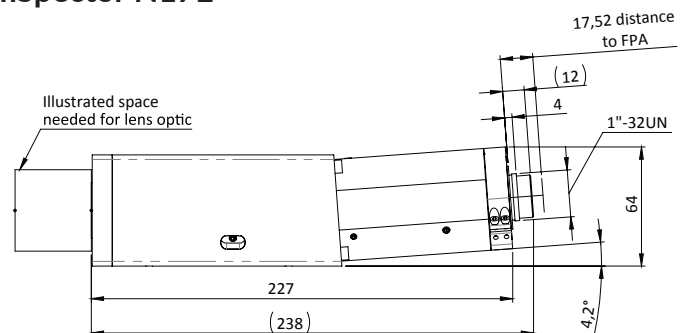
### ImSpector V8/V10



### ImSpector V10E



### ImSpector N17E



ImSpector	V8	V10	V10E	N17E
<b><i>Optical characteristics</i></b>				
<b>Spectral range</b>	380 - 800 nm *1	400 - 1000 nm *1	400 - 1000 nm *1	900 - 1700 nm *1
<b>Dispersion</b>	66 nm / mm	93.9 nm / mm	97.5 nm / mm	110 nm / mm
<b>Spectral resolution</b>	6 nm (with 80 µm slit)	9 nm (with 80 µm slit)	2.8 nm (with 30 µm slit)	5 nm (with 30 µm slit)
<b>Image size</b>	6.4 (spectral) x 8.8 (spatial) mm corresponding to standard ⅔" image sensor	6.4 (spectral) x 8.8 (spatial) mm corresponding to standard ⅔" image sensor	Max 6.15 (spectral) x 14.2 (spatial) mm	Max 7.6 (spectral) x 14.2 (spatial) mm
<b>Spatial resolution</b>	Rms spot radius < 30 µm	Rms spot radius < 30 µm	Rms spot radius < 9 µm	Rms spot radius < 15 µm
<b>Aberrations</b>	Insignificant astigmatism	Insignificant astigmatism	No astigmatism	No astigmatism
<b>Bending of spectral lines across spatial axis</b>	Smile < 45 µm	Smile < 45 µm	Smile < 1.5 µm	Smile < 5 µm
<b>Bending of spatial lines across spectral axis</b>	Keystone < 40 µm	Keystone < 40 µm	Keystone < 1 µm	Keystone < 5 µm
<b>Numerical aperture</b>	F/2.8	F/2.8	F/2.4	F/2.0
<b>Slit width, default</b>	50 µm (30 and 80 µm on request)	50 µm (30 and 80 µm on request)	30 µm (50 and 80 µm on request)	30 µm
<b>Slit length</b>	8.8 mm	8.8 mm	14.2 mm	14.2 mm
<b>Optical input</b>	N/A	N/A	Telecentric	Telecentric
<b>Efficiency</b>	> 50% independent of polarization			
<b><i>Mechanical characteristics</i></b>				
<b>Size</b>	D 35 x L 139 mm	D 35 x L 139 mm	W 60 x H 60 x L 175 mm	W 60 x H 60 x L 220 mm
<b>Weight</b>	300 g	300 g	1100 g	1500 g
<b>Body</b>	Anonized aluminium tube			
<b>Lens and camera mount</b>	Standard C-mount adapter			
<b>User adjustments</b>	Image axis relative to detector rows, adjustable back focal length +/- 1mm			
<b><i>Environmental characteristics</i></b>				
<b>Storage</b>	-20 ... +85 °C			
<b>Operating</b>	+5 ... +40 °C, non-condensing			

\*1 Order blocking filter is available for mounting in front of the detector window.

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