

Attribute	Property
Fore optics (including filter)	
Wavelength range	761.9–765.3 nm
Clear aperture diameter	66 mm
Field of view	$\pm 0.65^\circ$
Etendue (clear circular aperture)	$0.014 \text{ cm}^2 \text{ sr}$
Focal length	136 mm
Rectangular image size	$(3.8 \text{ mm})^2$
Etendue (rectangular image)	$0.01 \text{ cm}^2 \text{ sr}$
SHS	
Grating groove density	$1200 \text{ lines mm}^{-1}$
Littrow wavelength	761.8 nm
Littrow angle	27.2°
Field of view	$\pm 5^\circ$
Detector optics	
Numerical aperture (obj. space)	0.12
Magnification	0.55
Focal length	28 mm
Length of imaging system (incl. SHS)	75 mm
Detector	
Total pixel count	1920×1080
Pixel size	$5.04 \times 5.04 \mu\text{m}^2$
Quantum efficiency	0.4 at 760 nm
Dark current per pixel at 20°C	$2\text{--}4 \text{ e}^- \text{ s}^{-1}$
Readout noise (rms)	1 e^-
Performance	
Optical resolving power	16 800
Expected resolving power (approx.)	8000