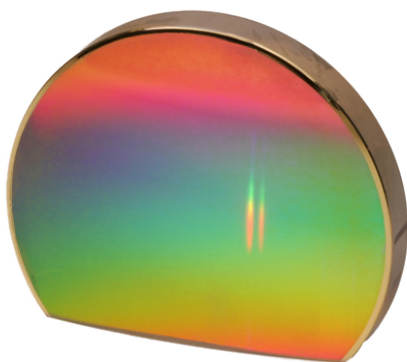# Hyperspec® VNIR Hyperspectral Imaging Sensor
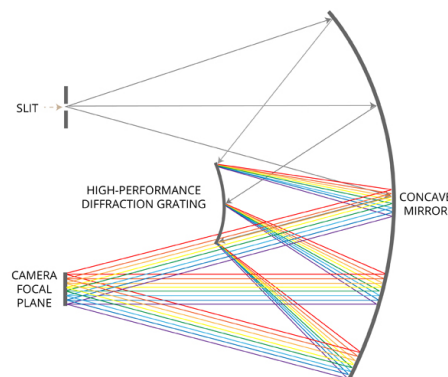
VNIR E-Series

- Spectral Bands: 837 (A-Series) or 923 (E-Series)
- Spatial Bands: 1004 (A-Series) or 1600 (E-Series)
- Max Frame Rate: up to 160 depending on version
- Aberration-corrected imaging
- All-reflective concentric optical design
- Collect full spectrum for every pixel in FOV

Hyperspec® VNIR

Model	A Series	E Series
Wavelength Range (nm)	380-1000	
Aperture	F/2.0	
Entrance Slit Width	25 microns	
Dispersion/Pixel (nm/pixel)	0.74	0.65
FWHM spectral resolution	2.5nm	
Slit Length	12mm	
Spectral Bands	837	923
Spatial Bands	1004	1600
Smile - Aberration-corrected	Yes	
Keystone - Aberration-corrected	Yes	
FPA Detector	CCD	sCMOS
Max. Frame Rate (Hz)	57 (no binning); 90 bin x2	160
Pixel Pitch (microns)	7.4	6.5
Camera Control Interface	Base Cameralink	Full Cameralink, 80-bit
Weight (lb / kg)	6.1 / 2.8	8.5 / 3.9
Max. Power (W)	6.6	20

Headwall-manufactured diffraction gratings manage reflected light with exceptional precision and resolution.

Headwall's concentric design layout using mirrors and gratings provides aberration-free imaging and a wide field-of-view.

SLIT
HIGH-PERFORMANCE DIFFRACTION GRATING
CONCAVE MIRROR
CAMERA FOCAL PLANE

Telecentric lens provides a perfectly matched exit pupil that eliminates unwanted image artifacts.