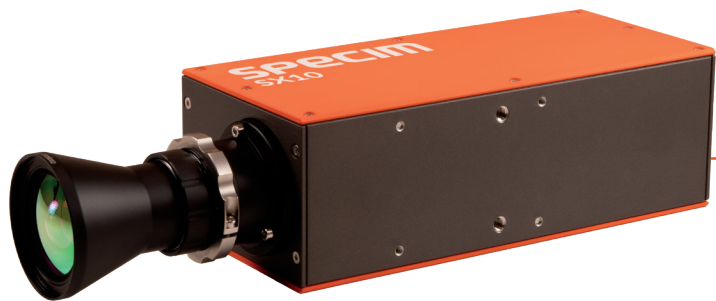
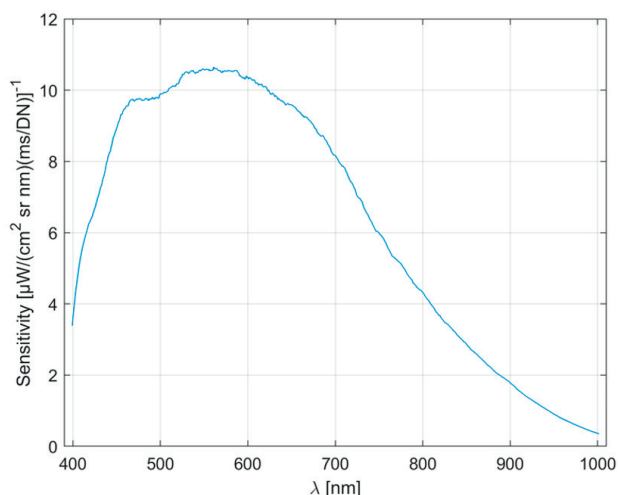




FEATURES

- Spectral range: 400-1000 nm
- High spatial resolution: 1560 pixels
- Frame rate: 275 FPS
- Spectral flexibility: Select from 680 bands
- High-speed GigE interface for easy integration
- Built-in Advanced Image Enhancement (AIE)
- Unified spectral calibration for cross-device consistency
- Macro lens option for detailed imaging of small samples
- Compact and lightweight (1.95 kg) for improved usability
- Compliance: CE, RoHS

SPECTRAL RESPONSE



RESEARCH-GRADE VNIR PRECISION

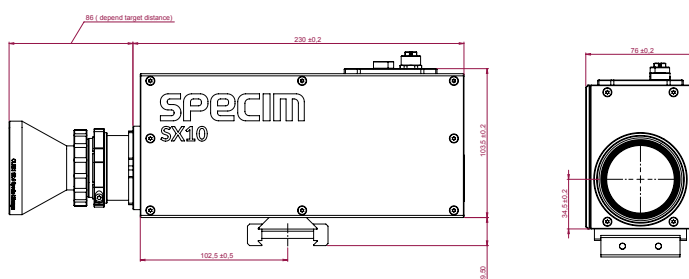
The Specim SX10 is a high-performance VNIR line-scan hyperspectral camera designed for demanding research, laboratory, and advanced imaging applications. Covering the 400–1000 nm spectral range, it combines a high spatial pixel count with excellent signal-to-noise performance and fine spectral resolution, enabling users to capture subtle spectral differences and fine spatial details with high precision.

With high-speed GigE connectivity, built-in Advanced Image Enhancement (AIE), and unified spectral calibration, the Specim SX10 delivers reliable and repeatable hyperspectral data while providing the flexibility needed for easy integration into complete imaging systems. Multiple lens options, including macro imaging, further extend its capabilities for detailed sample analysis and close-range measurements.

Ideal for applications such as:

- Thin-film characterization
- Detailed imaging of geological samples
- Food research
- Vegetation studies
- Cultural heritage and art conservation

DIMENSIONS



Spectral Range	400 nm - 1000 nm	Full VNIR
Spectral resolution (FWHM)	Default: 2.5 nm with 18 µm slit Options available: 3.3 nm with 30 µm slit 5 nm with 50 µm slit 8.8 nm with 80 µm slit	
Spectral sampling/pixel	0.9 nm	Bin 1
Spectral bands	680	
Working F/number	2.4	
Spectrograph magnification	1.0	
Pixel size	9 µm	
Slit width	18 µm	
Slit length	14.2 mm	Maximum slit length
Dynamic range	86 db = x:1	
SNR maximum	>300	
Spatial pixels	1560	Binning up to 8 possible
Bit depth	12	
Maximum frame rate	275 fps	
Binning	1,2,4,8 spectral and spatial	
ROI	Yes	
Image corrections	AIE, BPR, NUC	
Sensor material	Si	
Integrated cooler	No	
Full well capacity	100 ke-	
Read-out modes	ITR, IWR	
Lens mount	Specim mount	
Fore lens FOV options	38° (default)	Other options: VNIRMacro, FOV16, FOV61 and FOV74
Camera digital data output/control interface	GigE Vision / Ethernet	
Camera control protocols	GenICam	
Power input	12 - 24 VDC (+/- 10%)	
Power consumption	14 W	
Connectors	Power/I/O: 17-pol. M12 GigE: X-coded M12	
IP	IP52	
Dimensions (L x W x H)	230 x 103.5 x 76 mm	
Weight	1.95 kg	
Storage temperature	-20 ... +50 C (non-condensing)	
Operating temperature	+5 ... +40 C (non-condensing)	
Relative humidity	5% – 95% (non-condensing)	

Specim, Spectral Imaging Ltd. ▪ A Konica Minolta Company ▪ POB 110, FI-90591 Oulu Finland ▪ Elekroniikkatie 13, Oulu Finland
Tel +358 (0) 10 4244 400 ▪ VAT Identification number FI10079234 ▪ info@specim.com ▪ www.specim.com

Information in this document is subject to change without notice. Specim, Spectral Imaging Ltd. reserves the right to change or improve its products and specifications and to make changes in content without obligation to notify any person or organization of such changes or improvements.
Specifications are provided for reference purposes only and do not constitute a guarantee of actual product performance.