

NIR online hyperspectral camera GX17

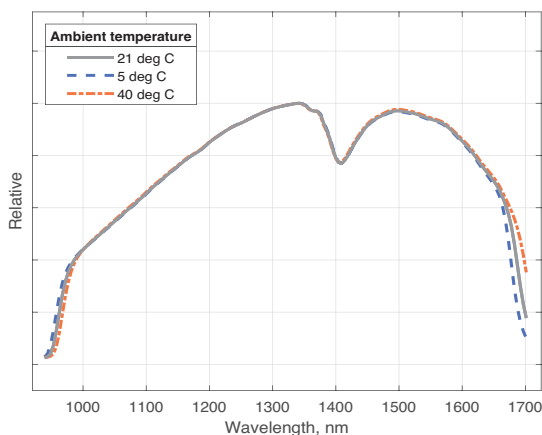


FEATURES

The high spatial resolution, light-throughput, and signal quality make Specim GX17 the most high-performing hyperspectral camera in its class.

- 950 – 1700 nm spectral range (varies depending on ambient temperature)
- 480 spatial pixels
- 800 Frames per second
- Signal-to-noise ratio 700
- F-number 1.7 (light-throughput)
- FOV options from 12° to 90°
- Compatible with SpecimONE
- GenCP-compliant Cameralink interface

SPECTRAL RESPONSE



COMPACT, HIGH-PERFORMING, AND COST-EFFECTIVE

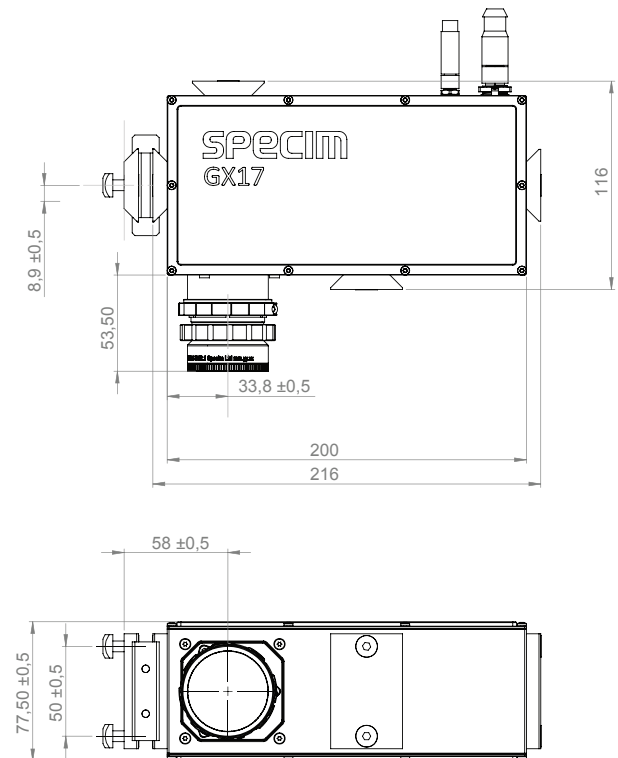
Specim GX17 is the next-generation NIR line-scan hyperspectral camera for real-time machine vision.

This fast-operation push-broom hyperspectral camera is a powerful and accurate tool for inline sorting, inspection, and quality control.

Specim GX17 camera is best suited for:

- Waste sorting
- Food sorting, inspection, and grading
- Researching NIR spectra with SpecimINSIGHT

DIMENSIONS



Learn more:



NIR online hyperspectral camera GX17

Spatial pixels	480
Spatial resolution (FWHM)	1.5 pixel
Spectral Range	950-1700 nm (varies depending on ambient temperature)
Spectral resolution (FWHM)	8 nm (mean)
Spectral sampling/pixel	4.6 nm
Spectral bands	168
Numerical aperture	1.7
Optics magnification	0.80
Effective pixel size	24.9 μ m (slit plane)
Effective slit width	42 μ m (slit plane)
Effective slit length	12.0 mm (slit plane)
SNR @ max. signal	700
Bit depth	16 (effective bits: 14)
Maximum frame rate	800 fps (with 0.5 ms integration time)
Binning	1x
ROI	Yes
Pixel operability	99.5%
Image corrections	With SpecimCUBE (without camera-internal correction)
Sensor material	InGaAs
Sensor cooling	No
Full well capacity	550 ke-
Read-out noise	110 e-
Mechanical shutter	Shutterless
Read-out modes	ITR
Lens mount	Custom mount
Fore lens FOV options	12 deg 38 deg 53 deg 66 deg 75 deg (C-mount lens) 90 deg (C-mount lens)
Camera digital data output/control interface	CameraLink
Camera control protocols	GenCP
Power input	10 - 32 VDC
Power consumption	7.5 W (typical)
Triggers	2 in and 2 out
Connectors	Power M8-4pin; Control M12-12pin, Camera Link SDR
IP	IP52
Dimensions (L x W x H)	202 mm x 75 mm x 102 mm
Weight	1.9 kg (spectral camera)
Storage temperature	-20 ... +50 C (non-condensing)
Operating temperature	+5 ... +40 C (non-condensing)
Relative humidity	5% – 95% (non-condensing)