

Book Your SPECIM FX17 Camera Demo Loan



Rent the Specim Hyperspectral FX17 for a week or a month at a time for your next research project at competitive rates.

If you buy a camera within 9 months of the loan, we'll take a portion of the loan cost off the purchase price.

"We're offering you the opportunity to hire a Specim FX17 camera for a week or a month (or possibly longer) at a time. Use our camera for your upcoming research project, without having to commit to buying one."

Dr. Luke Nicholls, Technical
Sales Manager, QDUKI

FEATURES FX17:

- 900 - 1700 nm spectral range
- 8 nm spectral resolution
- 230 spectral bands
- F/1.7 optics
- 670 fps (full frame)
- CL or GigE models
- 1000:1 SNR (peak)

FX17 INFORMATION:

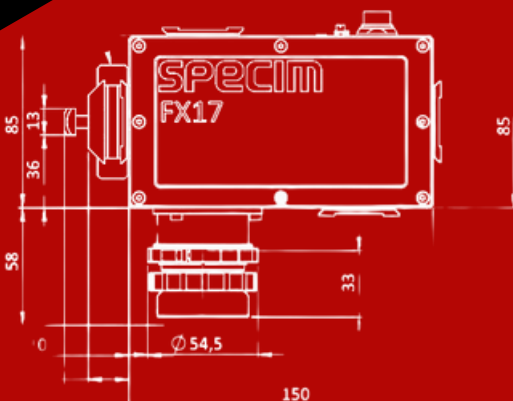
The FX17 is a small footprint hyperspectral camera built around an InGaAs detector. It operates in the NIR spectral range (900 - 1700 nm). As with the FX10 camera, FX17 optics enables excellent light throughput, high sensitivity, short integration times and high signal-to-noise ratio. The FX17 operates with a frame rate of 670 spatial pixels and 230 spectral bands. By reducing the number of spectral bands, the frame rate can be increased up to 15,000 fps. The camera is supplied with a high quality lens (38 deg FOV) and includes an integrated shutter. The camera is also IP52 rated, making it suitable for use in harsh environments.

IDEAL FOR:

- Food & feed quality
- Waste sorting
- Recycling
- Moisture measurement
- Threat detection
- Security

Get in touch today

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SPECIFICATIONS

Spectral Range	900-1700 nm	
Spectral resolution (FWHM)	8 nm (mean)	
Spectral sampling/pixel	3.5 nm	
Spectral bands	224	With default binning
Numerical aperture	1.7	With default lens
Optics magnification	0.80	
Effective pixel size	18.7 μ m	At fore lens image plane
Effective slit width	Physical width 42 μ m. Projection on sensor 32 μ m (M=1.3)	At fore lens image plane
Effective slit length	12.0 mm	At fore lens image plane
SNR @ max. signal	1000:1	
Bit depth	12	
Maximum frame rate	670 (FX17) 527 (FX17e) FPS full range	
Binning	1,2,4 spectral and spatial	Default: 2 spectral x 1 spatial
ROI	Freely selectable multiple bands of interest	Minimum height of ROI is two 1-binned rows. Maximum frame rate is determined by total number of rows between first row of first mROI and last row of last mROI and the total number of rows included in the mMROI's.
Pixel operability	99.5% Allowed clusters: Size 2-6 pixels: N/A Size 7-12 pixels: \leq 6 Size 13-19 pixels: \leq 2 Size 20-35 pixels: \leq 1 Size > 35: 0	
Image corrections	Non uniformity correction Bad pixel replacement Automatic Image Enhancement (AIE)	One point NUC AIE: Unified spectral calibration + corrected smile and keystone aberrations
Sensor material	InGaAs	
Sensor cooling	TEC	
Full well capacity	1.44 Me-	
Read-out modes	IWR / ITR	
Optics temperature	Passive	Default is 20 degrees Celsius
Lens mount	Custom mount	
Fore lens FOV options	12 deg 38 deg (default) 53 deg 69 deg 75 deg 92 deg	Only the default lens is specifically designed for FX17. With other lens options, optical parameters may vary.
Camera digital data output/control interface	GigE Vision, CameraLink	
Camera control protocols	GenICam, ASCII	
Power input	12 V DC (+/-10%)	
Power consumption	Max 24 W	
Connectors	Industrial Ethernet OR CameraLink (standard MDR 26-pin) Power – Fischer 12pin DBPLU1031Z012 130G	
IP	IP52	
Dimensions (L x W x H)	150 x 75 x 85 mm	Mounting surface option on three sides. Mounting kit adds 24 mm distance on mounting side.
Weight	1.56 kg	
Storage temperature	-20 ... +50 °C (non-condensing)	
Operating temperature	+5 ... +40 °C (non-condensing)	
Relative humidity	5% – 95% (non-condensing)	