

SPECIM



SPECTRAL IMAGING

SPECIM FX17

SMALL, FAST & AFFORDABLE HYPERSPECTRAL CAMERA
SPECIFICALLY DESIGNED FOR INDUSTRIAL MACHINE VISION



FLEXIBILITY

Free wavelength selection from 224 bands within the camera coverage

HIGH SPEED

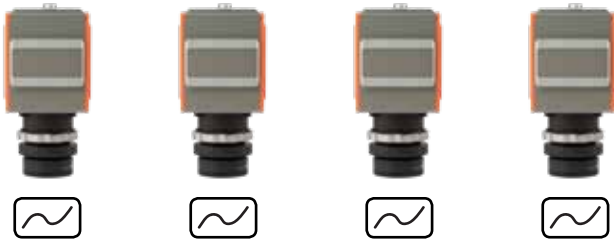
More FPS than you ever need

Example 1: Full range (224 bands) selected = 670 FPS

Example 2: Three specific regions selected (4 bands): > 15 000 FPS

PLUG 'N' PLAY

Every Specim FX unit gives identical results



FAST OPTICS

HIGH SENSITIVITY

Enables good signal with short integration times

HIGH SIGNAL TO NOISE RATIO

Enables better detection accuracy on high speeds

INTEGRATION

Acquisition software & SDK: LUMO Toolkit
Camera interface: GigE Vision or CameraLink



SMALL SIZE

Much smaller footprint than traditional hyperspectral cameras



Spectral Range	900 – 1700 nm *
Spectral Bands	224
Spectral FWHM	8 nm
Spatial Sampling	640 px
Frame Rate	670 FPS full frame 15 000 FPS with 4 bands selected
FOV	38°
F-number	F/1.7
Camera SNR (Peak)	1000:1
Camera Interface	GigE Vision or CameraLink
Dimensions	150 x 85 x 75 mm
Weight	1.56 kg
Integrated shutter	

* The precise range is determined by sensor material characteristics. A typical sensitivity curve of InGaAs sensor is shown in figure.

