

## FX50

### FX50 Series

#### FX50

- MWIR 2.7–5.3  $\mu\text{m}$  with 154 spectral bands
- Up to 377 FPS, 640 spatial pixels, 16-bit dynamics, SNR up to 1300:1
- Built-in AIE, NUC, and BPR, dynamic range up to 5000:1, temperature-stabilized optics
- GigE Vision with GenICam and JSON-RPC, 24 V DC, IP40
- CE, RoHS, MCT sensor with integrated Stirling cooling



### PRODUCT DESCRIPTION

The Specim FX50 is a hyperspectral MWIR camera for industrial materials analysis in the range of 2.7–5.3  $\mu\text{m}$  with 154 spectral bands, 377 FPS, and integrated Stirling cooling.

#### Specim FX50 – Hyperspectral MWIR Camera for Industrial Materials Analysis

The Specim FX50 is a hyperspectral line scanner camera for the medium-wave infrared (MWIR) range 2.7–5.3  $\mu\text{m}$ , specially developed for demanding industrial environments. The camera enables fast and accurate sorting of black plastics, analysis of hydrocarbons and minerals, and detection of contaminants on metal surfaces.

With an MCT sensor and integrated Stirling cooling, the FX50 delivers high-quality spectral data with 640 spatial pixels and 154 spectral bands, SNR up to 1300:1, 16-bit dynamics, and a dynamic range of up to 5000:1.

## TECHNICAL DATA

3612_Pixel size ( $\mu\text{m}$ )	30
Approvals	CE, RoHS
Connector	Ethernet, Aux, Power, Trig In, Trig Out
Frame rate max	377 fps
Height	161 mm
Input voltage	24 V DC
IP class	IP40
Length	280 mm
Lens barrel	Custom mount
Line speed max	0.4 kHz
Operating humidity	5–95% (icke-kondenserande)
Operating temperature	+5 ... +40°C
Pixel size min	30 $\mu\text{m}$

<b>Power consumption</b>	90 W
<b>Resolution max</b>	640 spatiala pixlar
<b>Storage temperature</b>	-20 ... +50°C
<b>Supply voltage</b>	24 V
<b>Supply voltage dc max</b>	24 V DC
<b>Supply voltage dc min</b>	24 V DC
<b>Wavelength</b>	2700–5300 nm
<b>Weight</b>	7 kg
<b>Width</b>	202 mm