SPECIM

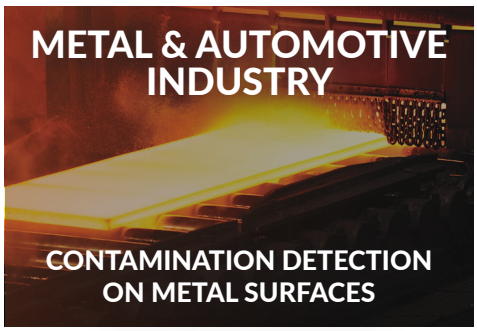
SPECTRAL IMAGING

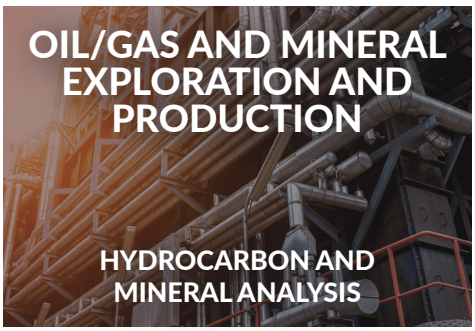
SPECIM FX50

THE FIRST INDUSTRIAL MWIR SPECTRAL CAMERA

Specim FX50 is a high-speed, accurate and efficient spectral camera specifically designed to industrial environments. It operates on MWIR region and can be used to identify and sort the difficult black plastics, analyze hydrocarbons and minerals, and detect contamination on metal surfaces quickly and reliably.

Improve accuracy and reduce costs.





BENEFITS

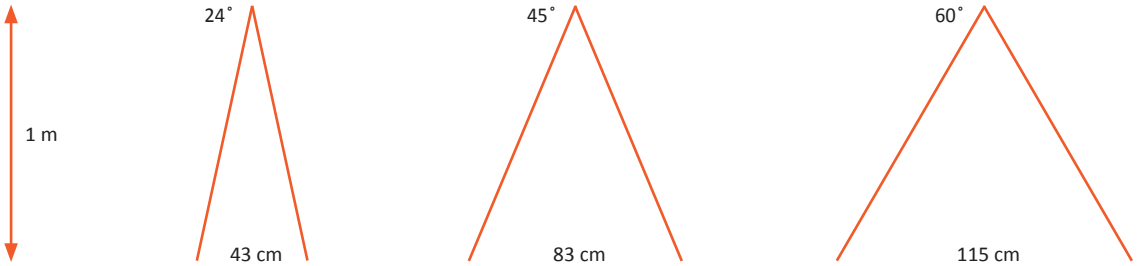
- The most compact and rugged MWIR spectral camera on the market
- The only reliable way to sort black plastics as MWIR light penetrates deeper in the dark materials as shorter wavelengths
- FX50 also identifies black ABS plastic as its spectral region extends up to 5300 nm
- Opens new opportunity to analyse minerals and hydrocarbons in dark samples in oil/gas and mining exploration and production
- Is capable of detecting low impurity concentrations due to their strong spectral signatures in the MWIR

FAST OPTICS

- High sensitivity – Good signal with short integration times

FLEXIBILITY

- Free wavelength selection from 150 bands within the camera coverage
- Three lens options to cover different conveyor widths



INTEGRATION

- Easy to integrate and retrofit to existing systems
- Camera interface: GigE Vision
- Compatible with commercial machine vision software tools
- Can be integrated to an existing software solution with Specim SDK and JSON-RPC
- MWIR light source available

SPECIFICATIONS

Spectral Range	2.7 - 5.3 µm
Spectral Bands	154 (2-bin)
Spectral sampling / FWHM	8.44 nm / 35 nm
Spatial Sampling	640 px
Frame Rate	Up to 380 FPS with full spectral & spatial data, higher with spectral ROI
FOV	24˚ 45˚ 60˚
F-number	F/2.0
Camera Interface	GigE Vision
Dimensions	280 x 202 x 169 mm
Weight	7 kg