

FX19

FX19 Series

FX19

- NIR/SWIR 1130–1920 nm with 224 freely selectable spectral bands
- Up to 527 FPS, 640 spatial pixels, 12-bit dynamics, SNR 1170:1
- Built-in AIE with uniform spectral calibration, smile/keystone correction
- GigE Vision with GenICam support, 12-24 V DC, four mounting surfaces
- CE, RoHS, IP52, TEC cooled InGaAs sensor, operating temperature +5 to +40°C



PRODUCT DESCRIPTION

The Specim FX19 is a hyperspectral NIR/SWIR camera for industrial material identification with 224 spectral bands in the extended range of 1130-1920 nm.

High performance and wide dynamic range

FX19 reaches up to 527 FPS at full spectral range with 12-bit dynamics and a dynamic range of 4200:1, enabling reliable detection of even weak spectral signatures in the SWIR range.

Built-in Automatic Image Enhancement (AIE) corrects smile and keystone aberrations and provides uniform spectral calibration between devices for reproducible measurement results directly from the camera.

TECHNICAL DATA

3612_Pixel size (µm)	18,7
Approvals	CE, RoHS
Connector	17-pin M12 (power + I/O), M12 X-coded Ethernet (GigE)
Fan	No
Frame rate max	527 fps
Height	85 mm
Input voltage	12–24 V DC
IP class	IP52
Length	150 mm
Lens barrel	Custom mount
Line speed max	0.5 kHz
Operating humidity	5–95% (icke-kondenserande)
Operating temperature	+5 ... +40°C (icke-kondenserande)

Pixel size min	18.7 µm
Power consumption	24 W
Resolution max	640 spatiala pixlar
Sensor length	12 mm
Storage temperature	-20 ... +50°C (icke-kondenserande)
Supply voltage	24 V
Supply voltage dc max	26.4 V DC
Supply voltage dc min	10.8 V DC
Wavelength	1130–1920 nm
Weight	1.5 kg
Width	71 mm