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FX120

FX120 Series

FX120



- LWIR 7.7–12.3 µm with 160 spectral bands
- Up to 240 FPS, 616 spatial pixels, 16-bit dynamics, SNR up to 2500:1
- Built-in AIE, NUC, and BPR, dynamic range up to 6000:1, TEC-stabilized optics
- GigE Vision with GenICam and JSON-RPC, 24 V DC, IP40
- RoHS, REACH, MCT sensor with integrated Stirling cooling

PRODUCT DESCRIPTION

The Specim FX120 is a hyperspectral LWIR camera for thermal spectral analysis in the range of 7.7–12.3 µm with 160 spectral bands, 240 FPS, and integrated Stirling cooling

Specim FX120 – Hyperspectral LWIR Camera for Thermal Spectral Analysis
The Specim FX120 is a hyperspectral line scanner camera for the long-wave infrared (LWIR) 7.7–12.3 µm, developed for applications where thermal spectral analysis is required with high accuracy and speed. The camera is well suited for mineral exploration, environmental analysis, thermal anomaly detection, and security and surveillance applications.
With an MCT sensor and integrated Stirling cooling, the FX120 delivers high-quality spectral data with 616 spatial pixels and 160 spectral bands, SNR up to 2500:1, 16-bit dynamics, and a dynamic range of up to 6000:1.

TECHNICAL DATA

3612_Pixel size (µm)	30
Approvals	RoHS, REACH
Connector	Ethernet, Aux, Power, Trig In, Trig Out
Frame rate max	240 fps
Height	220 mm
Input voltage	24 V DC
IP class	IP40
Length	250 mm
Lens barrel	Custom mount
Line speed max	0.2 kHz
Operating humidity	5–95% (icke-kondenserande)
Operating temperature	+5 … +40°C
Pixel size min	30 µm

Power consumption	150 W
Resolution max	616 spatiala pixlar
Storage temperature	-20 … +50°C
Supply voltage	24 V
Supply voltage dc max	24 V DC
Supply voltage dc min	24 V DC
Wavelength	7700–12300 nm
Weight	15 kg
Width	300 mm