



HYPERSENSPECTRAL IMAGING CAMERAS - FS27

Hyperspectral Imaging Cameras – FS27 uses a transmission grating spectral module with high diffraction efficiency and a highly sensitive surface array camera.

It integrates built-in scanning imaging and auxiliary camera technology to address the challenges of traditional hyperspectral cameras, which require an external push-scan imaging mechanism and are difficult to operate due to complex focusing. This camera can be directly paired with standard C interface imaging lenses or microscopes, enabling the rapid acquisition of spectral images.

APPLICATIONS

Application fields

Hyperspectral Imaging Cameras – FS27Hyperspectral Imaging Cameras – FS27

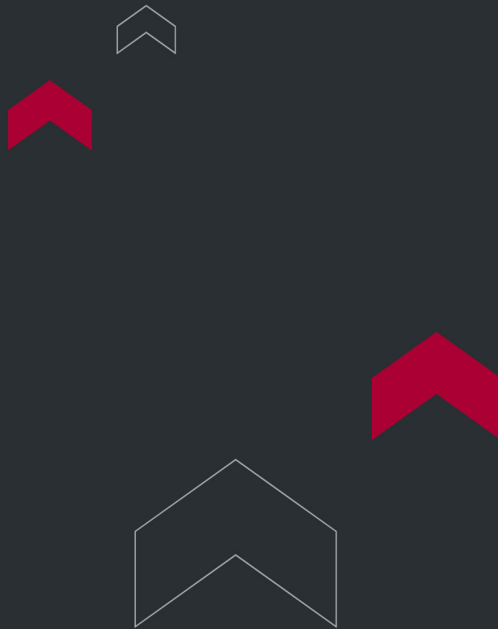
FEATURES

- Spectral method: Transmission grating
- Spectral range: 900-1700 nm
- Spectral channels: 1024
- Spectral resolution: Better than 6.5 nm
- Image resolution: 1280 x 1280
- Imaging speed: Less than 5 seconds
- Slit width: 25 μm
- Camera interface: C-Mount

TECHNICAL SPECIFICATIONS

Model number	FS-27
Spectroscopic method	Transmission grating
Image resolution	1280 * 1280
Dynamic range	12 bits
Imaging speed	≤ 5s
Spectral channel	1024
Spectral range	900-1700nm
Spectral resolution (FWHM)	6nm
Slit width	25um
Transmission efficiency	>60%
Stray light level	<0.5%
Pixel size	5um*5um
Detector type	InGaAs
Sensor imaging surface dimensions	9.6mm x 7.68mm
Standard lens focal length	25mm
Minimum working distance	150mm
Field Angle	14.5 °
Minimum exposure time	1us

Maximum exposure time	Ten seconds
Signal-to-noise ratio	600/1
Data interface	Start
Camera interface	C-Mount
Attachment	USB3.0 transmission line
Imaging function	Have ROI capability Multiple regional ROIs can be achieved
Auxiliary imaging function	Auxiliary view camera to realize the monitoring of the shooting area
Power supply mode	Built-in battery power
Dimension	Length x width x height: 24.8cm*14.5cm*14.5cm
Weight	2535g
Power dissipation	50W



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