

# GoldenEye™ - The Ultimate Snapshot Imager

## Captures All in One Shot for VIS/NIR

BaySpec's GoldenEye™ is the only Snapshot hyperspectral imager covering from 400 to 1000nm. Using BaySpec's FT-PI proprietary technology, this novel imager features high sensitivity and is most suitable for low light level applications, such as fluorescence imaging.



GoldenEye™ features:

- FT-PI proprietary technology
- SnapShot imager with one shot operation
- Spectral range from 400–1000nm
- High sensitivity for low light measurement



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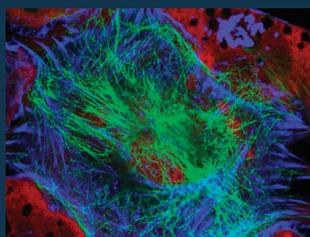
# Key Specifications

Operation Mode	Snapshot
Spectral Range	400 – 1000 nm
Number of Spectral Bands	Approx. 140 useful bands
Spectral Resolution	8-60 nm FWHM (resolution is function of $\lambda$ )
Frame Rate	500 fps, generating approximately one Hyperspectral cube per second
Sensor Type:	CMOS
Spatial Pixels	2D array, 648 x 488 pixels
Lens Interface	C-mount
Lens options	8, 16, 35, and 50 mm, or any C-mount; default 8mm (40° FOV)
Wavelength Calibration	factory calibrated
Temperature Range	10 – 50°C
Size	6.1 x 4.8 x 3.3 cm (without lens)
Weight	180 grams (without lens)
Power Supply	powered by the 5V DC power line of the USB 3.0
PC Requirements	500GB SSD, 8 GB RAM, Intel Core i5 or higher, USB 3.0 ports, Windows 10
Software	Custom GUI application
Dynamic Range (Data Resolution)	output data in 16-bit format
Data Format	Binary, compatible with Scyven, ENVI, MATLAB, Python, ImageJ, or other numerical or scientific image processing software

## Applications



Machine Vision



Fluorescence Imaging



Medical Diagnosis



Biomedical

## About Bayspec

BaySpec, Inc., founded in 1999 with 100% manufacturing in USA, is a Silicon Valley-based spectral sensing company. BaySpec designs, manufactures, and markets advanced spectral instruments, including smart handheld spectrometers, a new class of OCI™ hyperspectral imagers, novel transportable mass spectrometers, high performance UV-VIS-NIR-SWIR spectrometers, and OEM spectral engines and components, for precision agriculture, R&D, biomedical, pharmaceuticals, chemicals, food, semiconductors, health monitoring, and the optical telecommunications industry.



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