

ELSEi / ELSEs

High performance CCD cameras for demanding low light level applications in industry and science



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UV

VIS

NIR

KEY SPECIFICATIONS

- High Quantum Efficiency
- Ultra Deep Cooling to -100°C
- 18-bit Dynamic Range
- 50 kHz - 5 MHz Readout
- Multi-port Readout
- Fully flexible binning, crop, and ROI
- GigE & USB 3.0 Interface
- Compact Design

TYPICAL APPLICATIONS

- In-vivo Fluorescence Bioimaging
- Astronomy
- LIBS Spectroscopy
- Neutron Tomography
- EL / PL Imaging
- Ultracold Quantum Studies

ELSE



The golden child of low noise CCD cameras

The golden statue of Victoria upon the Berlin Victory Column has been given the nickname 'ELSE' by Berliners.

FEATURES & BENEFITS

Ultra deep TE cooling down to -100°C
lowest dark current for better detection limit

Hermetic vacuum seal
low camera maintenance and sensor protection

GigE & USB 3.0 data interface
local or remote network operation – your choice!

Multiple sensor options
UV, VIS, or NIR coatings for different sensor formats

High QE up to 98%
very sensitive sensors for low light applications

User selectable gain
balance your detector for best SNR and dynamic range

Fast readout speeds up to 5 MHz
fast frame rates paired with low-noise electronics

Flexible software options
camera software and SDKs available

ELSE SERIES

Straight out of Berlin comes **ELSE**, greateyes' new platform for spectroscopy and imaging applications in the UV - VIS - NIR range.

ELSE integrates cutting-edge low-noise electronics and ultra-deep cooling technology while keeping a compact camera design. Multiple readout speeds can be selected supporting pixel rates from 50 kHz up to 5 MHz.

True 18-bit AD conversion allows to exploit the full dynamic range of the CCD sensor for highest performance and SNR. Choose from a wide range of sensors to find the best match with your requirements. **ELSE** is ideally suited for detection of very weak signal intensities where a low-noise floor is paramount. **ELSE** offers unprecedented possibilities for your measurements of tomorrow.



ELSEs 1k128 & 1k256



ELSEs 2k128 & 1k512



ELSEi 1k1k



ELSEi 2k2k



ELSEi 2k2k plus



ELSEi 4k4k