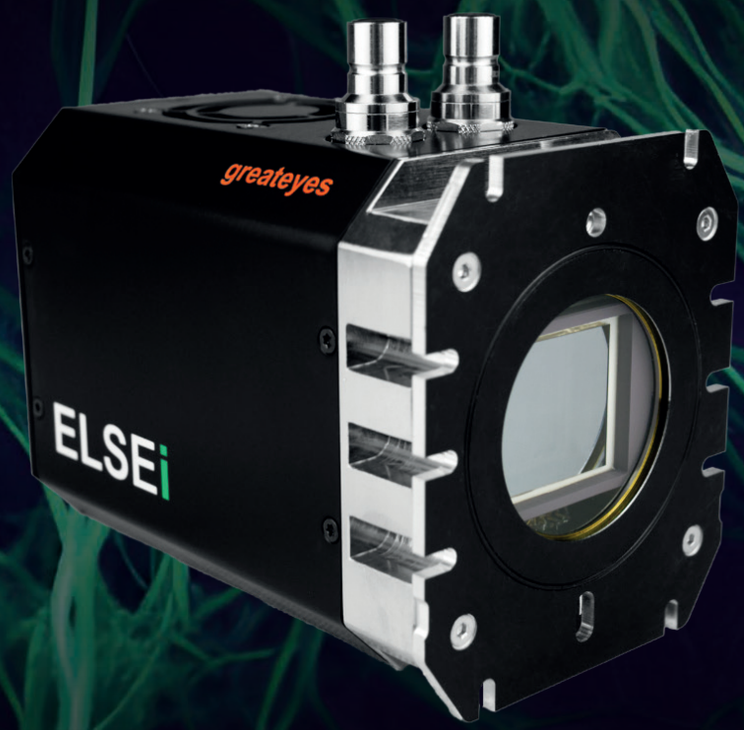
greateyes
EXPAND YOUR VISION

CAMERA SERIES FOR
IMAGING & SPECTROSCOPY

ELSEi / ELSEs

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



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 Interfeace
- Compact Design

TYPICAL APPLICATIONS

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

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PRECISOMETER
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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 whilst 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 users 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 2k256 & 2k512



ELSEi 1k1k



ELSEi 2k2k



ELSEi 2k2k plus



ELSEi 4k4k

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DS-ELSE-series / Rev04 / Sep2026

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Explore products & discuss your experiment