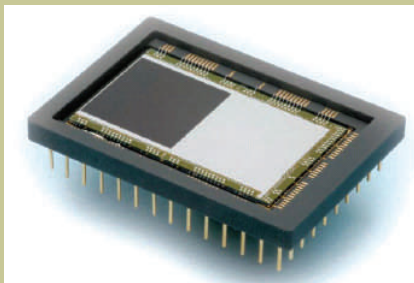


EUV & XUV frame transfer CCD cameras

PSL is supplying cooled frame transfer back illuminated CCD cameras for the last 5 years to end users and OEMs. A selection of high responsivity back illuminated CCDs combined with low noise, enables optimum photonic collection with best possible signal to noise ratio. Special read whilst expose mode allows 100% duty cycle and high sensitivity operation in low light level conditions.



Applications:

- EUV resin characterization
- Soft X-ray astronomy
- XUV plasma diagnostic
- EUV mirror / grating calibration
- spectroscopy
- forensics
- Pinhole imaging of Z-pinch soft X-ray source
- soft x-ray microscopy
- 2 dimensional elemental mapping
- coherent soft X-ray imaging
- EUV lithography

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Photonic Science Ltd

*Information /
products and
services*



Scientific detector
systems

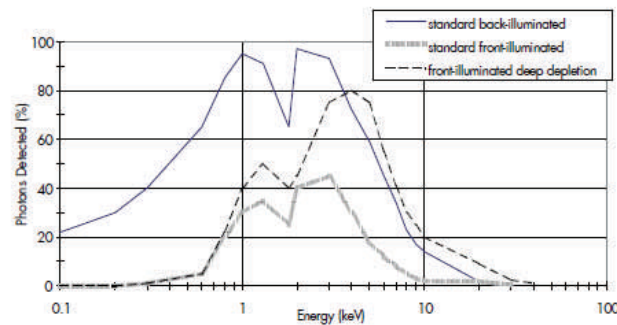
Cooled XUV cameras

Photonic Science Ltd is selecting premium grade back illuminated CCD sensors:

- Small pixel size less < 15microns pixel size.
- Cooled CCD sensor with 55 degree C delta T.
- 2 tap 3MHz frequency
- Sensor size from 19 and 38mm diagonal.
- Beryllium input windows.
- Very low read out noise < 30 electrons.
- High detection efficiency between 0.1 and 8 keV with near single photon counting detection capability..
- Very low dark current with less than 1 electron per pixel per second (cooling options for further noise reduction).
- Simultaneous integration / read out. Enabling 100% duty cycle acquisition.
- On chip binning.
- Detector synchronisation: pixel locked for dual channel acquisition.
- Camera link and GigE digital interface.
- Low profile electronics.
- Air cooled / water cooled option.

Cooled megapixel XUV CCD camera

- 1024 (h) x 1024 (v) CCD array
- Input pixel size: 13 x 13microns
- 19mm diagonal
- 5 fps at full resolution @ 2x3 MHz
- Read out noise: 25 electrons @ 2x3 MHz,
- Full well capacity: 100,000 electrons in binning1x1
- Dark current: <1 electron / pixel / second
- 14-bit digitisation
- Camera link / GigE nterface
- Synchronisation / control: via TTL pulse or pixel clock



Cooled 4 megapixel XUV CCD camera

- 2048 (h) x 2048 (v) CCD array
- Input pixel size: 15 x 15microns
- 43mm diagonal
- 1,5 fps at full resolution @ 2x3 MHz
- Read out noise: 25 electrons @ 2x3 MHz,
- Full well capacity: 100,000 electrons in binning-1x1
- Dark current: <1 electron / pixel / second
- 14-bit digitisation
- Camera link / GigE nterface
- Synchronisation / control: via TTL pulse or pixel clock

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