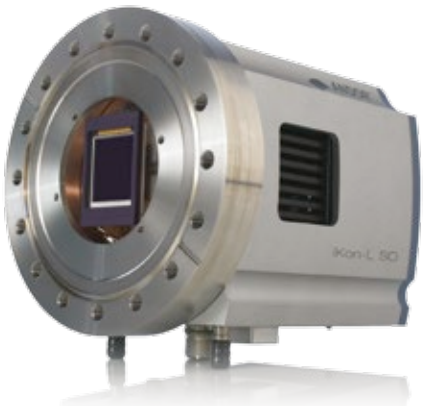


High Energy Detection

Highlights

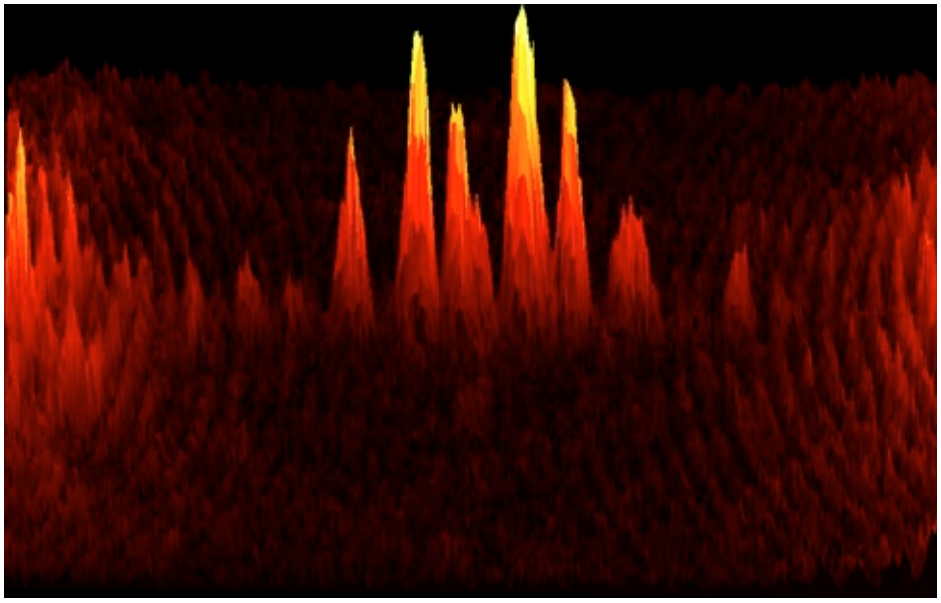
- Covers broad wavelength range - VUV, EUV, X-ray and gamma regions
- 'Direct' and 'Indirect' detection - the two main methods for detection of high energy photons
- Large choice of camera interface types for use in a wide range of both imaging and spectroscopic high energy applications e.g. 'open front', 'fiber-optic', in-vacuum' and 'stand-alone'
- Standard cameras easily tailored to meet customer special requests e.g. extending detection in the UV down to ~120 nm
- Large range of camera platforms available to work with e.g. Newton, iStar, Classic, iXon, iKon-L & iKon-M

Typical 'S' Applications

- EUV litography
- Soft X-ray imaging / microscopy
- X-ray spectroscopy
- Plasma diagnostics
- X-ray lithography
- X-ray diffraction
- X-ray Photon Correlation Spectroscopy (XPCS)
- Small Angle X-ray Applications (SAXA)

Typical 'H' Applications

- Microtomography
- X-ray diffraction
- X-ray crystalography
- X-ray medical imaging
- Industrial inspection
- Streak tube readout



Solutions Beyond The Visible

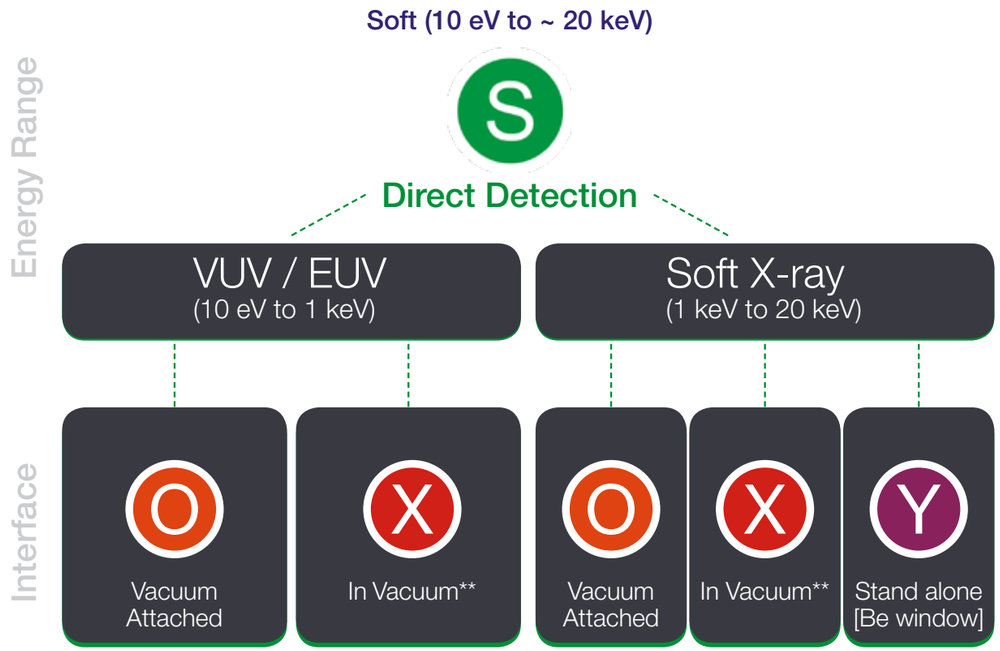
Benefiting from over 20 years of cutting edge development and manufacture, Andor's comprehensive range of high energy camera detection systems addresses a wide variety of imaging and spectroscopy applications from cell structure studies and medical research to material analysis.

These 'direct' and 'indirect' detection systems can be used at varying energy levels and are configured to operate across a number of sampling interfaces. For example, cameras can be placed directly into a vacuum chamber or can interface with a vacuum chamber via a mounting flange. Fiber optic coupled configurations are also available to interface with external scintillators or imaging relays such as streak tubes.

Andor's high energy detection platforms are built to last and are engineered from the outset with ease of use in mind; every system is developed to integrate quickly and directly into the heart of the experimental setup.

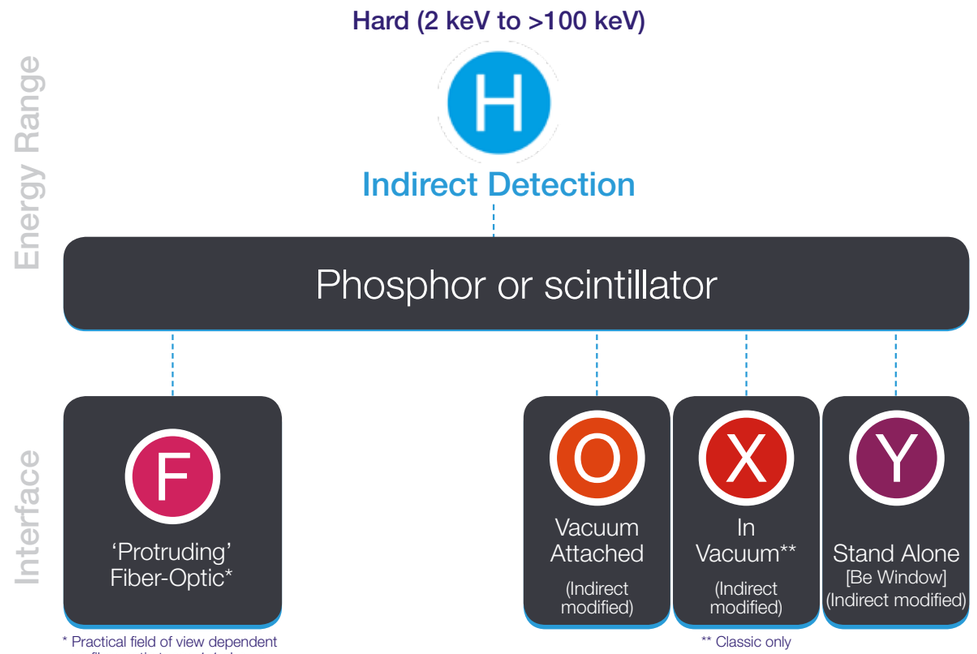
Defining A Solution

Building the optimal solution to your high energy detection requirements involves many decisions, including energy range, the ‘interface’ to the sampling environment, as well as attributes of the camera platform. Camera parameters include field of view, pixel size, frame rate, relative sensitivity, well depth, etc. Here we provide a high level guide to the decision steps involved.



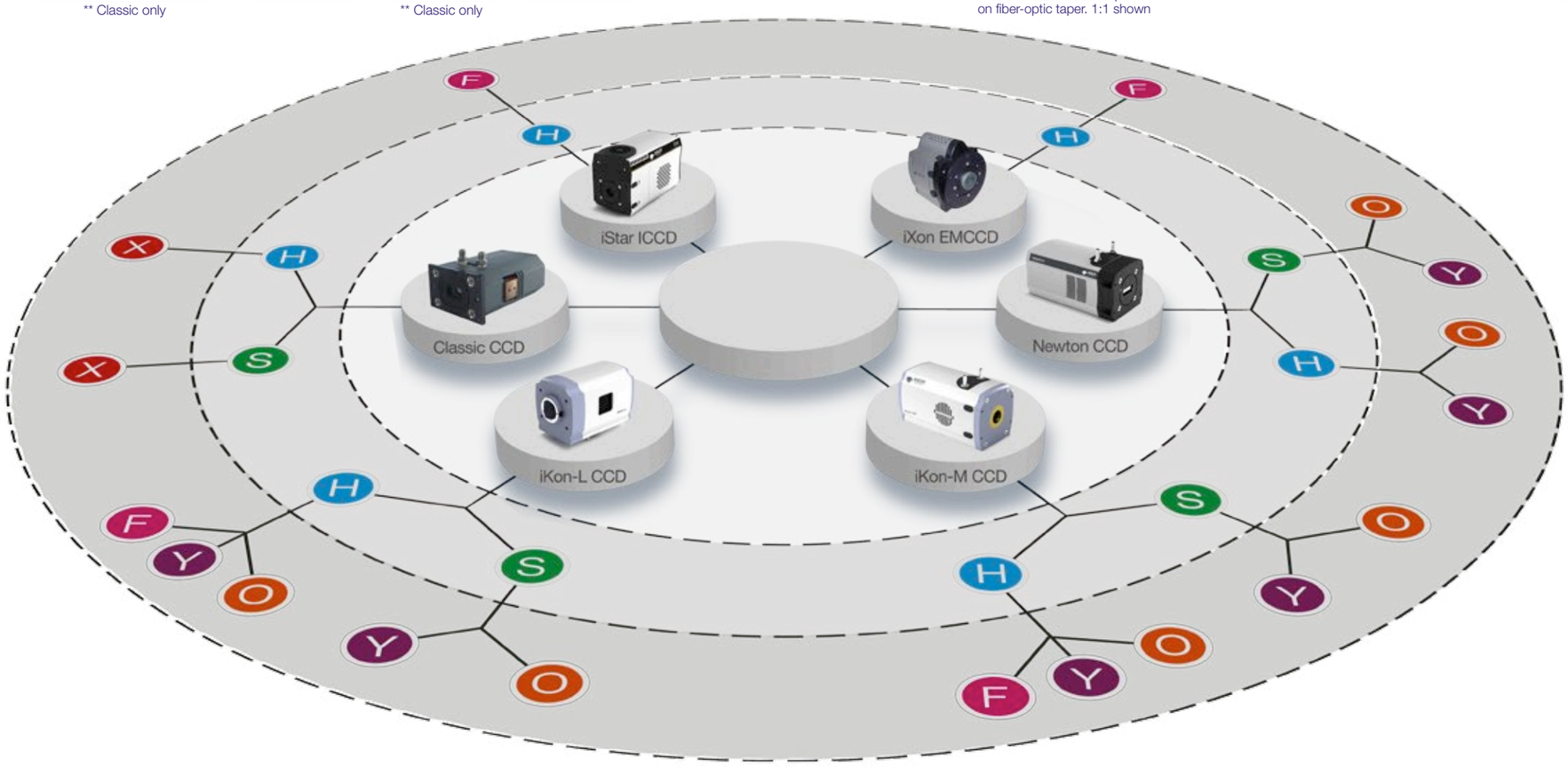
** Classic only

** Classic only



* Practical field of view dependent on fiber-optic taper. 1:1 shown

** Classic only



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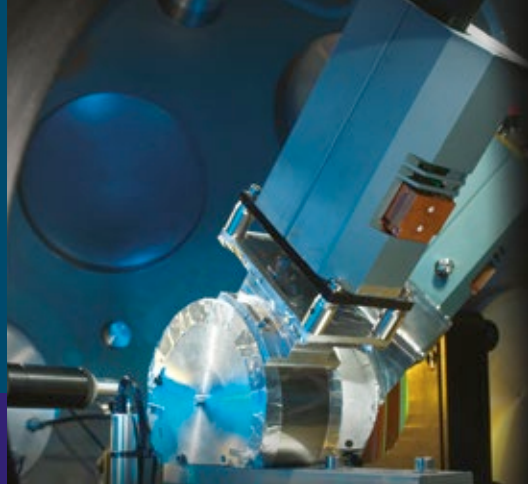

High Energy Detection

Customer Special Request (CSR)

At Andor we realize that, sometimes, even our adaptable and flexible off the shelf products are not enough to meet some of the more demanding application requirements of our customers.

For this reason we provide a bespoke service, whereby a dedicated highly experienced team of engineers and application specialists provide customer specific solutions. The CSR service is at the heart of the Andor ethos of offering high performance, high quality products and solution developments for each and every customer. The process involves discussing your core requirements, advising on possible solutions, design development, quotation and final delivery product.

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