

## driving X-ray innovation



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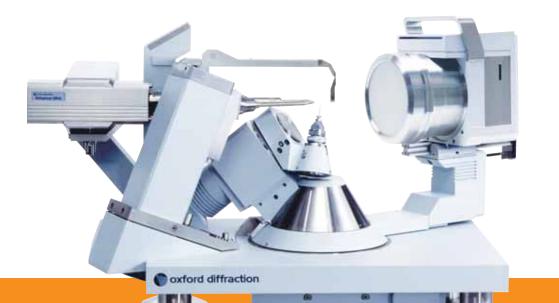




## Crystallography range

Choose your ... X-ray source Detector Cooling device

## Small molecule and protein combined



Ideal for both protein and small molecule:

## Gemini A Ultra

- Co-mounted Enhance (Mo) and...
- High brilliance Enhance Ultra (Cu) X-ray source

**Combined small** molecule and protein system

135 mm Atlas CCD

## **Small molecule**



upgradeable to







## Ideal for high brilliance protein crystallography:

## Xcalibur PX Ultra

- Enhance Ultra (Cu) X-ray source
- 165 mm Onyx CCD

# Typical system combinations and upgrade paths

Ideal for maximum experimental flexibility :

## Gemini A

- Mo and Cu co-mounted Enhance X-ray source
- 135 mm Atlas CCD

### Ideal for multi-wavelength high resolution small molecule data:

## Gemini S

- Mo and Cu co-mounted Enhance X-ray source
- Sapphire CCD

#### Ideal for high resolution, high sensitivity data:

## Xcalibur S

- Enhance X-ray source (Mo or Cu)
- Sapphire CCD

Only a small number of combinations are shown. You can always change the detector and/or add a second source.

# Building your ideal X-ray system is as easy as 1, 2, 3

## Choose the detector by size, sensitivity and end application

## Choose between a single and double X-ray source, wavelength and intensity

# Combine these with our



## Onyx

- Ø 165 mm active area
- 2k x 2k Kodak CCD chip
- Superb for protein crystallography

## Atlas

- Ø 135 mm active area
- 2k x 2k Kodak CCD chip
- Ideal for high speed, high quality data collections

92 mm diagonal active area

2k x 2k Kodak CCD chip

Most sensitive detector

Ideal for electron density,

Point detector

Photon counting

experiments

Ideal for high pressure

Patented CCD design

small molecule research

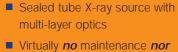
Sapphire



## Enhance Ultra

- High intensity Cu radiation
- 300 micron beam
- Intensity of a 5 kW rotating anode with the best optics





downtime

## Enhance

- Mo or Cu radiation
- 2.5 to 3 times greater intensity than traditional sealed tube sources
- 0.3, 0.5, 0.8 and 1.0 mm collimators available



## Enhance (Cu) and Enhance (Mo)

- Mo and Cu co-mounted Enhance X-ray sources
- Wavelength change at the flick of a switch

## Ideal for small molecule and proteins



# Coxford diffraction



## Enhance (Mo) and Enhance Ultra

- Co-mounted high intensity Enhance Ultra (Cu) and Enhance (Mo) X-ray sources
- Wavelength change at the flick of a switch





### Patented X-ray design





kappa goniometer to provide a complete turn-key X-ray system



### Goniometer

- 4-circle kappa
- Universal platform supports all Oxford Diffraction sources and detectors
- Flexible upgrade routes

## Full System

- Goniometer
- Detector
- X-ray source
- Full safety cabinet
- PC + LCD monitor
- CrysAlis<sup>Pro</sup> (data collection and processing software package)
- CCD water chiller
- X-ray tube water chiller

## **Optional extras**

- Helijet open flow helium blower
- Cryojet XL / HT open flow nitrogen blower
- Liquid nitrogen auto-fill option



Cryojet XL/HT mounted on a diffractometer

## Service and support

Oxford Diffraction's reputation for service and support is second to none in the X-ray diffraction market, providing a timely and positive response to customer needs.

Professional and highly skilled, our team provide worldwide service and support to the crystallographic community.







