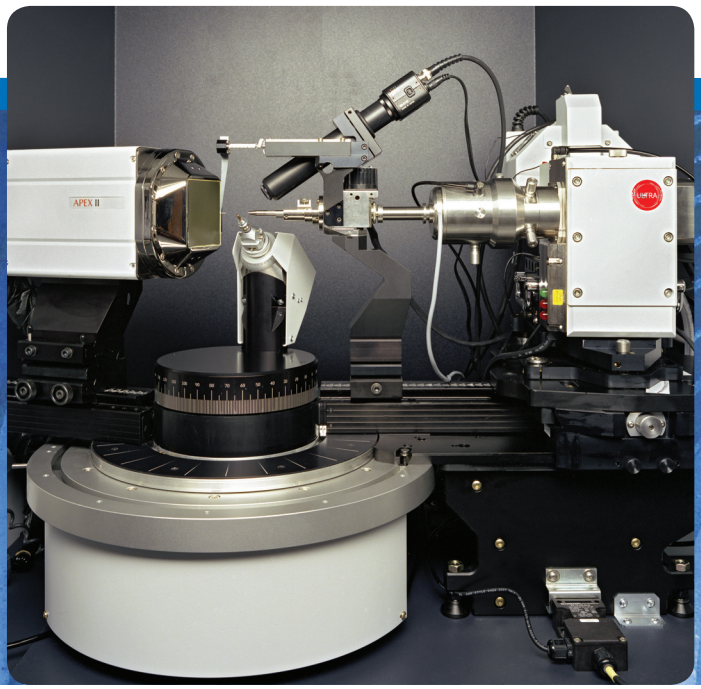
Bruker AXS



APEX II ULTRA

Turn on the Light! Hotter Does Not Have to be Bigger!

The APEX II ULTRA is Bruker's top-of-the-line crystallographic instrumentation for chemical crystallography.

The system combines the most sensitive CCD detector with the brightest Molybdenum source and the most advanced multilayer optics available in a very compact format. The rotating anode is so compact that it can be mounted on the goniometer, inside the standard D8 safety enclosure, setting new standards in ease and stability of alignment.

A very small focal spot combined with the HELIOS optics produce a small high flux beam of only 150 micrometer which can increase integrated intensities from small crystals by a factor of 60 compared to standard sealed tube systems, outperforming any other Mo-system on the market.

The APEX II ULTRA's ingenious design allows for a variable beam size with constant flux which allows changing the beam size to 360 micrometer within minutes without changing expensive components.

From the tiniest crystals to charge density studies, when you need performance, the APEX II ULTRA is the instrument of choice.

APEX II ULTRA Standard Features

APEX II 4K CCD detector

1:1 imaging for best quality and highest sensitivity

4-port readout for highest productivity

Lowest readnoise and darknoise

Best spatial resolution - no fibre distortion

D8 3-axis goniometer

Open geometry allow easy access of accessories such as low temperature devices

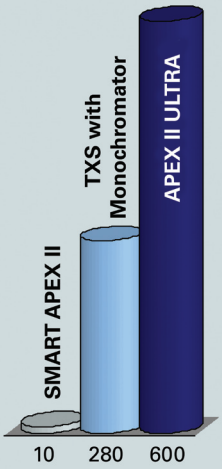
Fixed chi eliminates omega limits for fast and efficient data collection

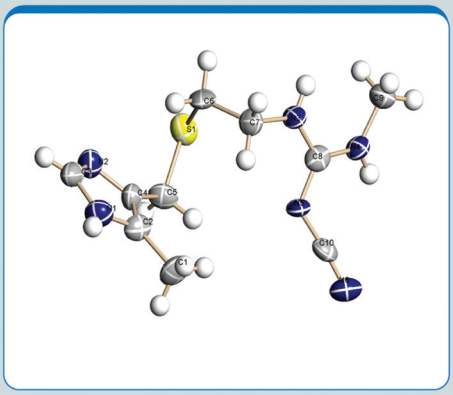
High angular precision for the most demanding applications, while maintaining superb alignment for many years

Attenuator for extended dynamic range

Color video microscope

Intensity Comparison





Data collected on a small crystal of cimitidine 0.04 x 0.04 x 0.02 mm³

TSX X-ray generator

6kW solid state generator, 20-60kV in 1kV steps. 2 to 120 mA in 1 mA steps

Mo target plus choice of 0.1 mm, 0.2 mm, and 0.3 mm cathode

Microprocessor controller with automatic startup and burn-in

Optics

HELIOS multilayer opticsfor Mo radiation

X-ray safety

Full enclosure 80" (203 cm) H x 46" (117 cm) D x 55" (130 cm) W

Device presence switches on monochromator, collimator and beamstops

Full Security X-ray safety

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