

# D8 Structural Biology Solutions



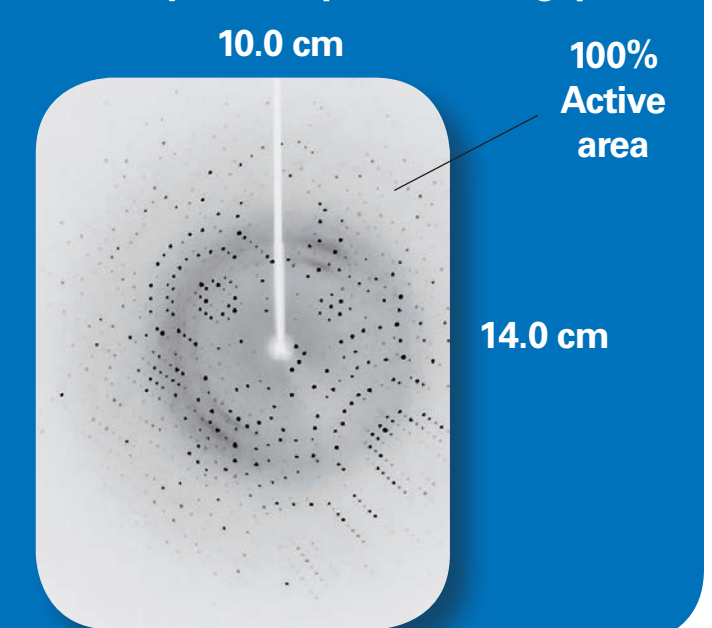
The D8 QUEST and D8 VENTURE are optimized to provide the highest throughput and data quality. Obtain best results for all in-house applications from data collection to crystal screening.



## CPAD – Charge-Integrating Pixel Array Detector

The PHOTON II CPAD features the largest monolithic active area of any pixel array, no gaps due to the use of a single wafer-scale silicon sensor, single-photon sensitivity no charge sharing effects, zero counting losses.

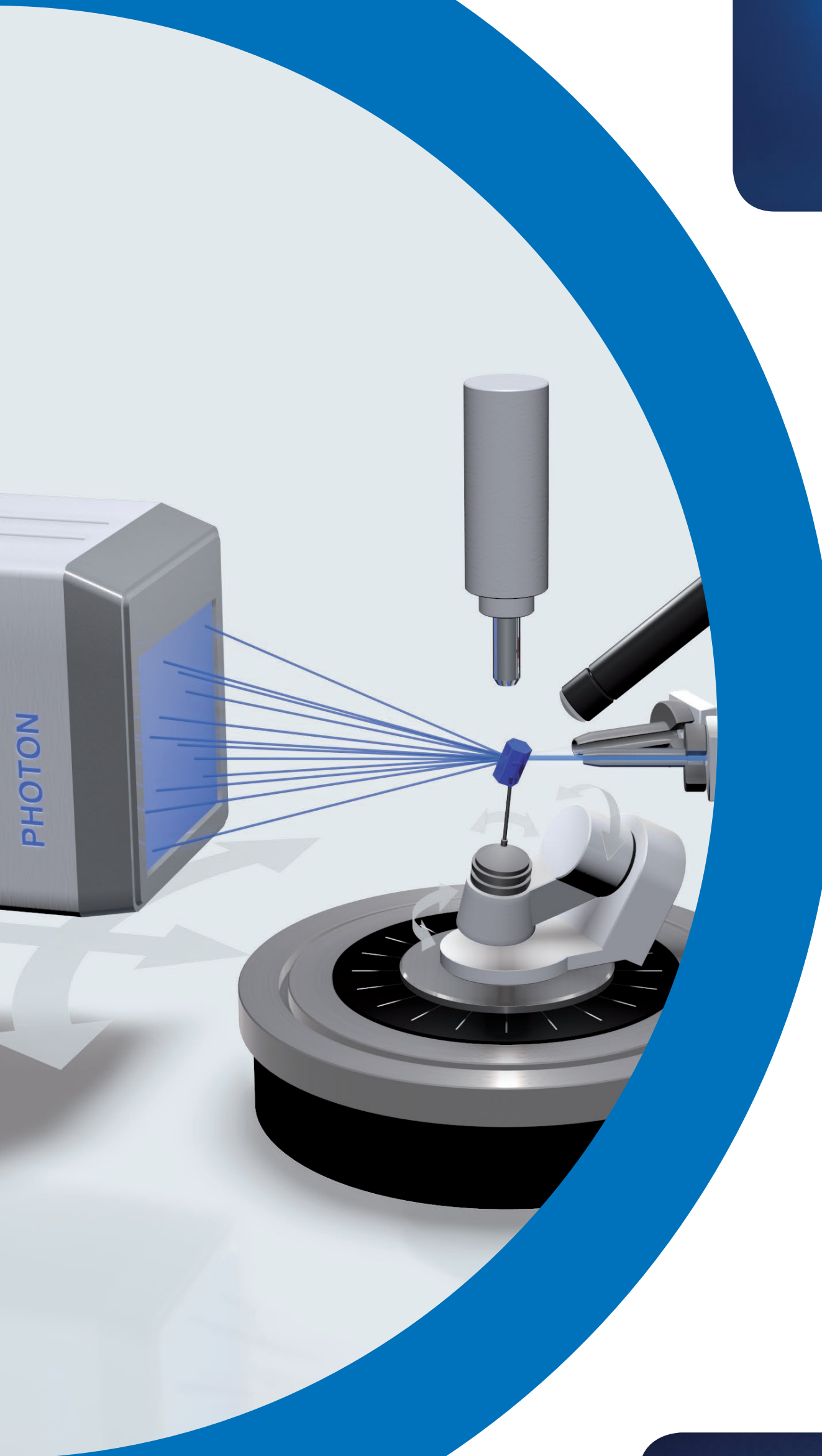
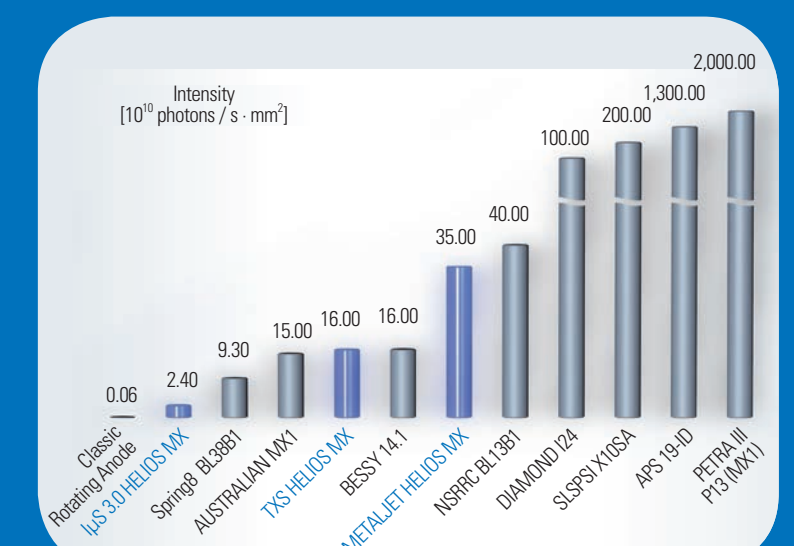
Large active area: see more from your sample, lose the gaps



## Brighten-up Your Home Lab

The new sources deliver beam intensities comparable to bending magnet beamlines.

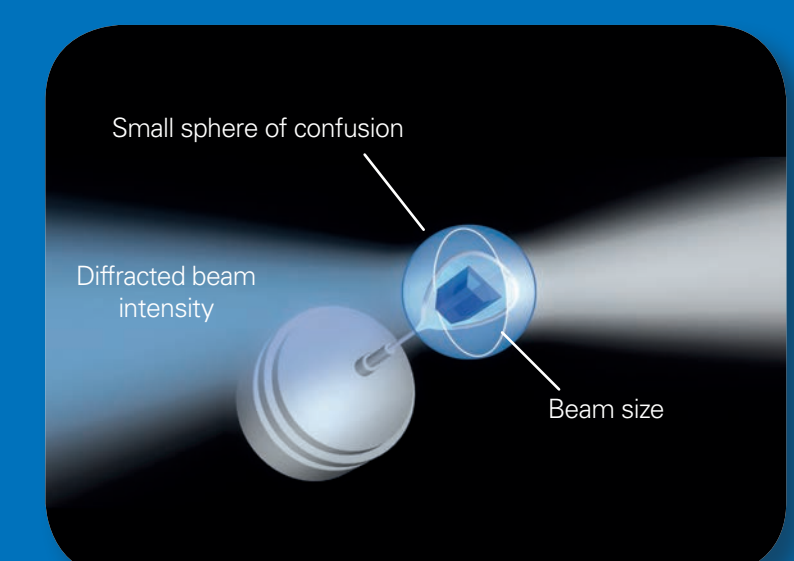
Traditional X-ray Sources vs. METALJET



## KAPPA GONIOMETER – Collect the best data!

With our KAPPA goniometer the sample is exposed to a stable, strong primary beam. The sphere of confusion is smaller than 7 micrometers.

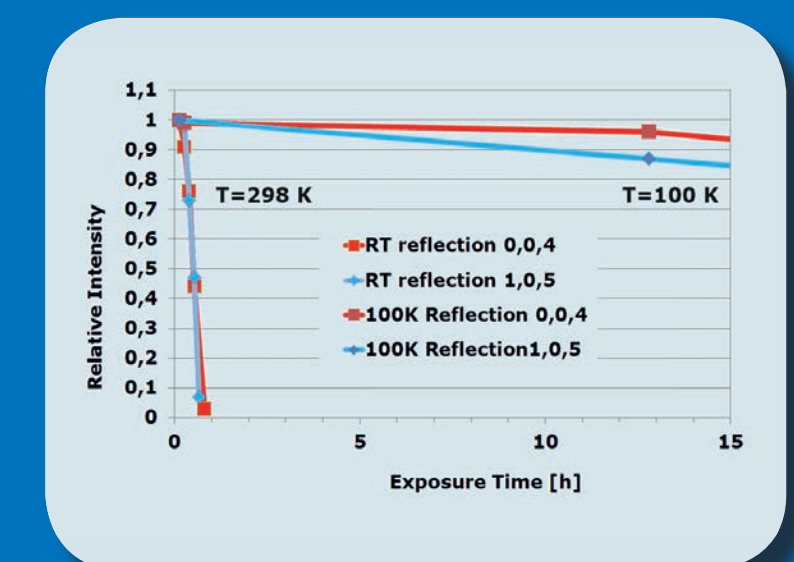
KAPPA Goniometer



## Low-Temperature Device

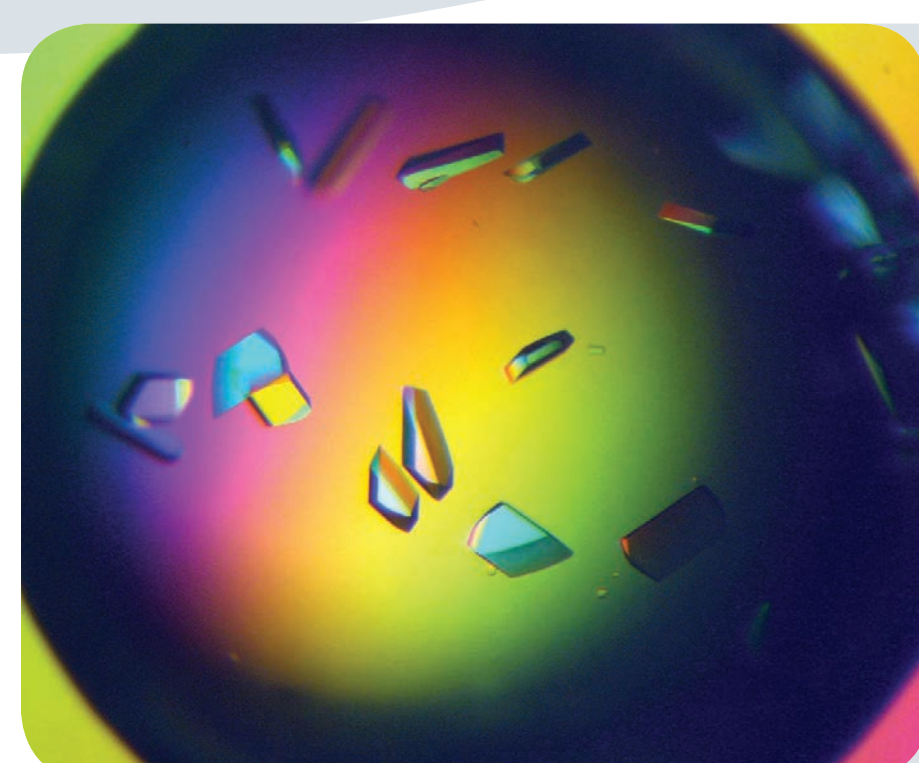
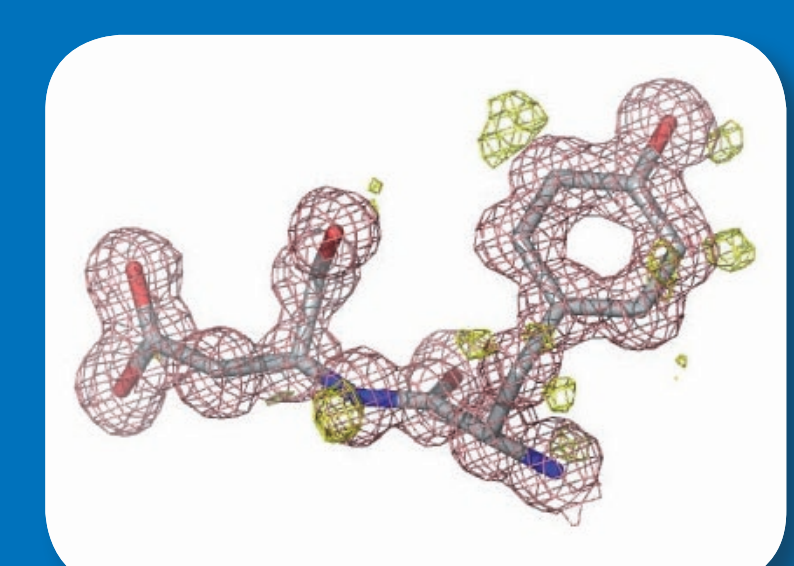
The low temperature attachment permits data collection at low temperatures by enveloping a crystal sample in low temperature nitrogen gas.

Intensity decay of two reflections with and without using a low-temperature device



## Best Hardware + Best Software = Best Structure

Our PROTEUM3 software guides you through the complete experiment with minimal input and maximum graphical feedback.



## D8 QUEST and D8 VENTURE – Bring the synchrotron to your home lab.

