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Rigaku R-Axis IV++

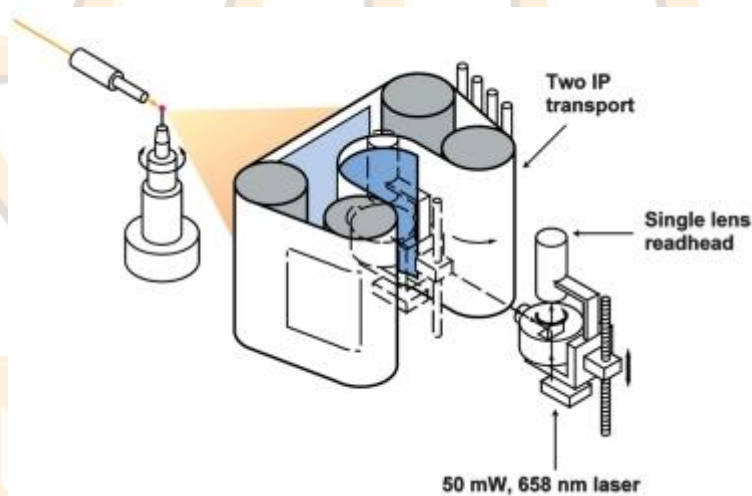
Specifications

The R-AXIS IV++ is the most popular X-ray area detector for macromolecular crystallography. It combines two large active area imaging plates with fast readout speeds and a wide dynamic range, making it ideal for collecting accurate diffraction data from the widest ranges of samples in the home laboratory.

Measurement of Diffraction Patterns from protein crystals:

Aperture	300 mm x 300 mm
Imaging plate	FUJI® BAS-MS
Number of imaging plates	2
Simultaneous operations	Exposure and readout
Pixel readout sizes	200 µm x 200 µm, 100 µm x 100 µm
Read noise Sensitivity	2 ADU per X-ray photon @ 8 keV
Read head speed	1800 RPM
Read time	136 s @ 100 x 100 µm, 86 s @ 200 x 200 µm
Minimum cycle time	180 s for 100 x 100 µm
	130 s for 200 x 200 µm
Plate position and erase time	43 s
Dynamic range	500,000:1 photons/pixel
ADC resolution	2 x 14 bit
Communication interface	PCI
Cooling	Not required
Erase lamps	8 fluorescent bulbs
Goniometer	Choice of single-φ axis (inverted single-φ axis)
	or 3-axis partial-χ

Detector sled	70 - 450 mm manual crystal-to-detector distance (optional: motorized)
2θ stage	Optional stage allowing detector swing up to 16°
Helium beam paths	Optional 100 mm, 150 mm, or 200 mm for use with single-φ or inverted-φ axis
Operating environment	15 - 25°C, 65% max. RH (non-condensing)
Weight	90 kg
Power	100 - 120 VAC, 50/60 Hz, 15 A



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