

IPDS II/2T

STATE OF THE ART DIFFRACTOMETER WITH EXTREMELY SENSITIVE AND RELIABLE IMAGING PLATE TECHNOLOGY

10 STOE PARTS & LABOR GUARANTEE



SINGLE CRYSTAL DIFFRACTOMETRY

IPDS II

- Very high dynamic range (16 bits)
- Extremely low background (no dark current)

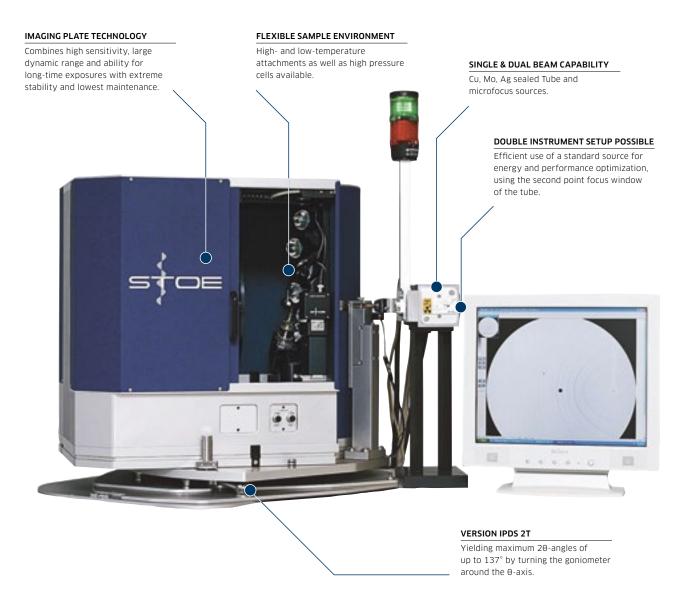
IPDS 2T

- Movable goniometer for higher 2θ angles
- Enlarged detection of reciprocal space
- Dual beam capabilities for highest flexibility



IPDSII/2T

UNPARALLELED RELIABILITY, BUILT TO SERVE ALL SCIENTIFIC NEEDS: E.G. SMALL MOLECULES, PROTEINS, ELECTRON DENSITY MEASUREMENTS

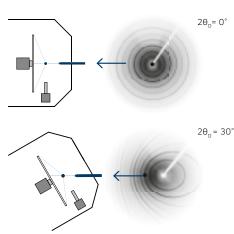


IPDS II

- One instrument designed for both, small molecules and proteins
- Perfect for weak scatterers
- Reliable intensities of very weak and very strong reflexions within the same frame
- Long lifetime, low maintenance, low costs of ownership

IPDS 2T

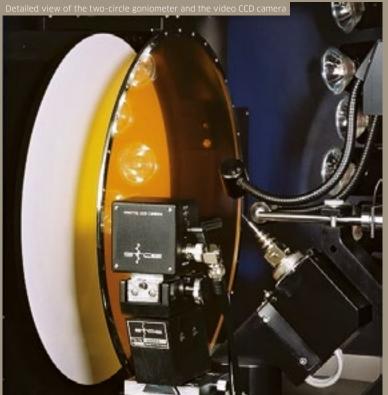
- Extend the features of IPDSII by collecting data up to 137° in 20 $\,$
- Useful for Cu radiation and electron density measurements



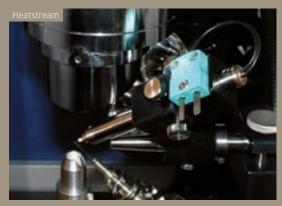
The shown Scherrer rings are presenting the turn from 0° 20 to 30° 20 using ${\rm LaB_6}$ powder as the sample material.

FULL ACCESSIBILITY
OF THE SAMPLE ENVIRONMENT
FOR EASY ADAPTATION OF
HIGH AND LOW TEMPERATURE
ATTACHEMENTS AS WELL AS
HIGH PRESSURE CELLS



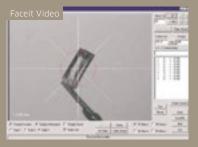


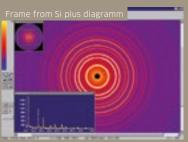




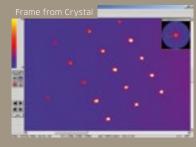
X-Area

- Software for easy data collection and evaluation
- Powerful solution for complicated situations (multi-domain and modulated crystals)
- Support for DACs











SYSTEM SPECIFICATIONS	IPDS II	IPDS 2T
Dimensions (including system cabinet, max.)	1680x880x2110mm	1680×880×2110mm Double Setup: 2050×1260×2110mm
Weight (complete system)	390 kg	420 kg Double Setup: 600 kg
Max 20:	77°	137°
Goniometer	ω: 180°, Φ: 360°	ω: 180°, Φ: 360° 20: 0°, 5°, 30°, 45°, 60°
Detector distance	40 - 200 mm (automatically set)	40 - 200 mm (automatically set)
Minimum d/Å	0.45 Ag K _α , 0.57 Mo K _α	0.30 Ag K $_{lpha}$, 0.38 Mo K $_{lpha}$, 0.83 Cu K $_{lpha}$
X-ray sources	Sealed Tubes: Ag, Mo, Cu Microfocus sources: Ag, Mo, Cu	Sealed Tubes: Ag, Mo, Cu Microfocus sources: Ag, Mo, Cu
DETECTOR SPECIFICATIONS	IPDS II	IPDS 2T
Diameter Image Plate (active area)	340 mm	340 mm
Intrinsic noise	low noise due to absence of dark current	low noise due to absence of dark current
Linear dynamic range	> 1:10 ⁵	> 1:10 ⁵

Specifications without obligation and subject to change without notice.



Hilpertstrasse 10

64295 Darmstadt | Germany

