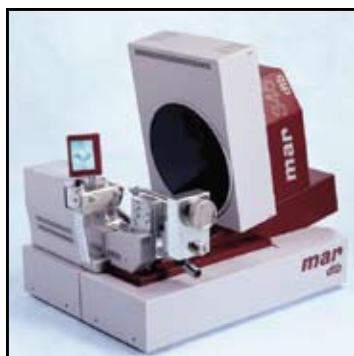


mar345

Ultralarge-aperture, high-performance X-ray detector

the standard for accuracy and reliability





The mar345 is fully compatible with the mardtb automated goniostat and the marcsc automated sample changer.

mar345

Technical Specifications

Type	Imaging plate
X-ray Sensitive Surface	Round, 345mm diameter (93,480mm ²)
Gain	1 ADU/8keV photon
Read Noise	1 to 2 8keV photon equivalent
Dynamic Range	17 bits (1:131,000)
Operating Temperature	Room temperature
Cooling	None required
Readout Mechanism	Spiral scan, laser-stimulated luminescence
Readout Electronics	Photomultiplier; 16-bit ADC, 2× oversampling

Readout Options (Software Selectable):

Resolution	Diameter	No. of Pixels in Image	Pixel Size	Read Time (sec.)	Erase Time (sec.)	Total Time (sec.)
High	345mm	3450 × 3450	100µm	96	12	108
	300mm	3000 × 3000	100µm	77	10	87
	240mm	2400 × 2400	100µm	53	9	62
	180mm	1800 × 1800	100µm	34	8	42
Standard	345mm	2300 × 2300	150µm	68	12	80
	300mm	2000 × 2000	150µm	56	10	66
	240mm	1600 × 1600	150µm	39	9	48
	180mm	1200 × 1200	150µm	26	8	34

Computer Interface	10BaseT Ethernet
Physical Dimensions (h × w × d)	50cm × 40cm × 36cm; weight: approx. 53kg

Distributed in North America by



High-performance X-ray technology

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