

Specifications

	FHR 640	FHR 1000
Optical layout	Czerny-Turner with optional dual entrance and dual exit ports	Czerny-Turner with optional dual entrance and dual exit ports
Focal length	640 mm	1 meter
Aperture	f/5.4	f/9
Grating size	Single grating: 110 x 110 mm Dual grating 80 x 110 mm	Single grating: 110 x 110 mm Dual grating 80 x 110 mm
Reciprocal linear dispersion	1.2 nm/mm using 1200 gr/mm grating	0.8 nm/mm using 1200 gr/mm grating
Resolution	0.016 nm	0.008 nm
Slits	Automated 0 to 2 mm standard. Optional automated 0 to 7 mm.	Automated 0 to 2 mm standard. Optional automated 0 to 7 mm.
Accuracy	±0.03 nm	±0.03 nm
Repeatability	±0.015 nm	±0.015 nm
Drive step-size	0.00025 nm	0.00025 nm
Scan speed	300 nm/s	300 nm/s
Computer control	USB 2.0 built in	USB 2.0 built in
Dimensions (not including adjustable legs)	13.78" (W) × 29.13" (L) × 13.78" (H) 35 cm (W) × 74cm (L) × 35 cm (H)	16.93" (W) × 45.67" (L) × 13.78" (H) 43 cm (W) × 116 cm (L) × 35 cm (H)
Weight	143.3 lbs., 65 kg	154.3lbs., 70 kg