SCHWIND AMARIS® 500E

At a glance

Laser type	ArF-excimer laser, 193 nm, laser class 4
Beam size	0.54 mm Super-Gaussian profile (FWHM)
Repetition rate	500 Hz, with Intelligent Thermal Effect Control
Ablation time	2.0 s/D (Myopia, without astigmatism, 12.5 mm vertex distance, 6 mm optical zone)
Beam delivery	Flying spot, with Automatic Fluence Level Adjustment
Eye tracking	5D, 1050 Hz turbo eye tracking Reaction time: 3 ms Pupil and limbus tracking Compensation of lateral movements (1st and 2nd dimensions) Rolling balance (3rd and 4th dimensions) Optional: Advanced Cyclotorsion Control – static and dynamic (5th dimension) Automatic pupil size control Pupil centre shift compensation
SCHWIND CAM software	ORK-CAM module – refractive treatment PresbyMAX® module – presbyopic treatment (PPF) PALK-CAM module – therapeutic treatment (PPF)
Refractive treatment range	PRK, TransPRK, LASEK, LASIK, FemtoLASIK, PTK "Aberration-Free" treatments Customised treatments based on corneal and ocular wavefront
Integrated online pachymetry	Optional
Particle aspiration system	Integrated
Patient bed	Up to 90° swivelling
Treatment Assistant Manager	Course of treatment can be configurated individually
Surgical microscope	Superior depth of focus Tube swivelling range 10° to 50° Camera beam splitter integrated Optional: Camera video system with DVD recorder
Computer	Panel PC – 17" touch screen monitor, pivotable on 2 axes, additional dot-matrix-display, washable keyboard with integrated touchpad
Diagnostic slit lamp	Optional Swivelling on 2 axes 4 selectable diaphragms (3 slits, 1 circle)
Working distance	235 mm
Voltage / power consumption	100, 110, 120, 127 VAC, 50/60 Hz, max. 20 A 208, 220, 230, 240 VAC, 50/60 Hz, max. 10.5 A
Footprint (LxWxH) including patient bed	2265 mm x1486 (±50) mm x 1335 mm
Compliance	CE conformity in accordance with Medical Device Directive (MDD) 93/42/EEC

Optimum functionality, reliability and compliance with all legal regulations can only be assured through the use of products supplied by SCHWIND – whether as single items or as a combined system.

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