TECHNICAL SPECIFICATIONS

AKR 800NV

ESSILOR
INSTRUMENTS

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The AKR 800NV auto kerato-refractometer is used to conduct fast and reliable objective refractions and keratometry.

With complimentary measurements including automatic peripheral keratometry, white-to-white measurement and retro-illumination imaging, the device allows you to perform in-depth eye assessments for the application of contact lenses and media-opacity screening.

Easy-to-use and fully-automatic, AKR 800NV includes advanced features such as night vision measurement and accommodation evaluation, allowing you to better understand patients' needs and to guide them towards adaptive solutions.

REFRACTION MEASUREMENTS	
Sphere	-30D to +22D (steps: 0.01/0.12/0.25D)
Cylinder	0 to ±10D (steps: 0.01/0.12/0.25D)
Axis	0 to 180° (steps: 5°/1°)
Minimum pupil diameter	2.0 mm
Vertex distance	0 mm; 10 mm; 12 mm; 13.5 mm; 15 mm
Light environment	Photopic, Mesopic, Scotopic
Auto tracking	3D Auto (X-Y-Z directions) or Manual
Auto shot	Available
Auto transition from right to left eye	Available

KERATOMETRY MEASUREMENTS	
Corneal curvature radius	5.0 to 10.0 mm (steps: 0.01 mm)
Corneal refractivity	33.75 to 67.5D (steps: 0.12/0.25D)
Degree of corneal astigmatism	0 to ±10D (steps: 0.12/0.25D)
Axis angle	1 to 180° (steps: 5°/1°)
Peripheral measurement	7.0 mm

OTHER MEASUREMENTS	
Pupillary distance	0 mm to 85 mm (steps: 1 mm)
Pupil diameter	2.0 mm to 8.5 mm (steps: 0.1 mm)
Corneal measurement	12 mm to diagonal measurement of 14 mm (steps: 0.1 mm)

ADVANCED FEATURES	
Accommodation measurement	0 to 5D
Retro illumination	Included

HARDWARE SPECIFICATIONS	
Screen	10.4 inch color LCD monitor (TFT) 180° rotatable, 40° tiltable
Chinrest	Motorized
Printer	Thermal line printer with auto-cutter
Data output	LAN, USB-A, RS-232C
Dimensions and weight	10.6 (W) x 18.3 (D) x 19.0-20.6 (H) in – 48.5 lbs
Power source	100-240V AC, 50/60Hz, 90VA

CE 0459

This is a medical device MDD Class Im. Legal manufacturer : Essilor International.
For professional use only. Read instructions for use carefully.

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