

TECHNICAL SPECIFICATIONS

REFRACTION MEASUREMENTS

Sphere	-30D to +22D (step: 0.01/0.12/0.25D)
Cylinder	0 to ±10D (step: 0.01/0.12/0.25D)
Axis	0 to 180° (step: 5°/1°unit)
Min pupil diameter	Ø 2.0mm
Vertex distance	0mm; 10mm; 12mm; 13.5mm; 15mm
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 10.0mm (step: 0.01mm)
Corneal refractivity	33.75 to 67.5D (step: 0.12/0.25D)
Degree of corneal astigmatism	0 to ±10D (step: 0.12/0.25D)
Axis Angle	1 to 180° (step: 5°/1°)
Peripheral measurement	φ7.0mm

OTHER MEASUREMENTS

Pupillary distance	0mm to 85mm (step:1mm)
Pupil diameter	φ2.0mm ~ 8.5mm (step: 0.1mm)
Corneal measurement	φ12mm – (diagonal measurement: φ14mm (step: 0.1mm))

HARDWARE SPECIFICATIONS

Screen	10.4 inches color LCD monitor (TFT) 180° rotatable, 40° tilttable
Chinrest	Motorized
Printer	Thermal line printer with auto-cutter
Data output	LAN, USB-A, RS-232C
Dimensions & weight	271 (W) x 464 (D) x 482-523 (H) mm – 22kg
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 attentively instructions for use.



ESSILOR INTERNATIONAL

147 rue de Paris, 94220 Charenton-le-Pont - France
Tél. : +33 (0)1 49 80 62 80
www.essilor-instruments.com



AKR 800



AUTOMATIC AND EASY AKR
TO ENHANCE YOUR DAILY PRACTICE



ESSILOR INTERNATIONAL © - R.C.S. Créteil 439 769 664 - Réf: M01521-01-en-AKR800 Brochure

AKR 800

AUTOMATIC AND EASY AKR TO ENHANCE YOUR DAILY PRACTICE

The AKR 800 autokerato-refractometer conducts precise and reliable objective refraction and keratometry.

With its innovative design and its fast, easy to use and full automatic measurement system, you will enhance your practice by making objective refraction easier.

Includes additional features such as keratometry and white-to-white measurement for contact lens fitting. Triggers patient awareness and education with night vision refraction.



3D Auto
(X-Y-Z directions)



1

DELIVER PRECISE & RELIABLE OBJECTIVE REFRACTION



Provide accurate refraction through a single click, while benefiting from **intuitive measurement modes** to further gain time.

Rely on **accurate measurements**¹ even for **smaller pupils** (Ø 2.0mm), with objective refraction enabling you to optimize subjective refraction assessment.

2

ENHANCE YOUR DAILY PRACTICE WITH GREAT USER CONVENIENCE



Make fast refraction measurements in less than 20 seconds thanks to **fully-automated alignment**, focus and image capture to optimize your day-to-day customer traffic management.

Benefit from **ease of installation** and a **flexible layout**. Thanks to the device's small footprint and 180° rotating and 40° tiltable screen, it can be conveniently integrated into your store layout.

3

ASSESS NIGHT VISION AND FIT CONTACT LENS



Strengthen your expertise and precision in contactology thanks to **automatic peripheral keratometry** and **white-to-white measurement**.

Benefit from **accurate corneal measurement** to offer patients a more personalized service and prescriptions.

Raise patient awareness by **assessing variations in refraction between day and night light** conditions to better understand patient needs and guide them towards adapted solutions.

1. Compliant EN ISO 10342 and EN ISO 10343