VISUREF 150 from ZEISS
Autorefractor/Keratometer
Fast and reliable refractive assessments

A reliable tool
in the practice

What you face every day

Complex practice processes flow smoothly when routine tasks are easy to perform. Refraction assessment is part of the daily pretest workflow. A high patient throughput in this area is key for the success of every eye care facility, as is the dependability of pretest results as well as the comfort of the patients.

How we can help

VISUREF® 150 from ZEISS is a basic diagnostic instrument that combines reliable performance with great user convenience. It delivers fast, trustworthy refraction and keratometry results for an in-depth assessment of patient condition. Easy to set up and use, the ZEISS VISUREF 150 can be operated after only a short training period.

Apart from refraction and keratometry the intuitive workflow-oriented user interface also conducts cornea and pupil diameter measurements, image capture and contact lens base curve measurements. Adaptable illumination parameters allow measurements of patients with implanted intraocular lenses (IOLs). The automatic fogging incorporates an infinity scene that reduces the effects of accommodation.

The ZEISS VISUREF 150 has all the qualities needed to quickly become a valuable asset in the practice environment. With its modern communication technology, the device seamlessly fits into many practice setups, supporting efficient diagnostic workflows.

Modern operating concept

The intuitive user interface guides the user through the main workflow steps of the refractive assessment. Choose from different measurement settings (e.g. manual, auto trigger) and various illumination parameters (e.g. IOL mode) for optimal results.

Flexible instrument control

Conducting measurements with the touch screen and joystick is very easy. Diagnostic information is displayed in excellent resolution on the adjustable color touch monitor. Patients are quickly and comfortably positioned with the motorized chin rest. The integrated quick release brake prevents unintended movements of the instrument base.

Data management

Quickly retrieve previous measurements via the local device memory. View all details for up to 10 measurements per eye and their average values. Print out results with the integrated thermal printer or as a PDF file over a network printer. Review measurement data on a PC via the web server interface.

Versatile connectivity options

Connect the device to your EMR/PMS or to FORUM® from ZEISS. Import patient work lists with an iPad or PC onto the ZEISS VISUREF 150 and directly select patients for measurement. Transfer data in common file formats (e.g. PDF, XML) to a USB stick or to a local network folder, and access data via a local web server. Export objective refraction data to the ZEISS acuity chart system to preset the VISUPHOR® 500 digital phoropter from ZEISS.

Key benefits for you and your patients

- Fast, accurate data for high-quality patient care
- Operator and patient comfort through ergonomic design
- Convenient measurements and data handling
- Enhanced connectivity for efficient workflows

Technical data
ZEISS VISUREF 150

Four different operation modes

- Combined refraction and keratometry mode
- Pupil and cornea diameter measurement mode
- Image capture mode
- Contact lens base curve measurement mode

Refraction

Sphere	-25.00 D to +22.00 D in steps of 0.12 D / 0.25 D
Cylinder	0.00 D to ±10.00 D in steps of 0.12 D / 0.25 D
Axis	0° to 180°, in steps of 1°
Corneal vertex distance	0.00, 10.00, 12.00, 13.50, 15.00 mm
Pupil distance (PD)	10 mm to 85 mm
Min. pupil diameter	2 mm

Keratometry

Corneal curvature	5.00 to 10.20 mm, in steps of 0.01 mm
Corneal refraction	33.00 D to 67.50 D, in steps of 0.12 D / 0.25 D
Corneal astigmatism	0.00 D to -15.00 D, in steps of 0.12 D / 0.25 D
Axis	0° to 180°, in steps of 1°

Corneal diameter	2.00 to 12.00 mm, in steps of 0.10 mm
Chin rest movement	65 mm, motorized
Printer	Internal thermal printer (paper width 57 mm), printable PDF via optional network printer
Connectivity	1 x serial interface RS 232; fully isolated 2MOPP
	1 x network connection (LAN 10 / 100); fully isolated 2MOPP
	Supported data output options: ■ to EMR, PMS systems or ZEISS FORUM ■ file-based to network folder and USB stick Web service interface for data retrieval
	1 x USB interface (for USB stick only)
	1 x VGA monitor output
Output data format	XML (JOIA), PDF
Power supply	100 V to 240 V AC ±10 %; 50 / 60 Hz
Dimensions (W x D x H)	275 mm x 525 mm x 450 mm
Weight	18 kg

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