



PERIMETER PERISTAT / PERIMAT

# PLUG & TOUCH BY RODENSTOCK

Highly intelligent and time-saving.

- Kinetic (Perimat) and static testing
- Digital eye-tracking
- RGB bowl illumination
- Goldmann size stimuli
- Standardised driver test
- Electronic chin rest



# QUALITY IN DETAIL



Both Rodenstock Perimeters are developed to meet the needs of today's clinical practitioner. The Perimat offers high-end performance matching the latest standards in modern perimetry. The Peristat is designed to fulfill all standard tests in return for a modest investment.

## Modern Eye Tracking System

Both Systems are equipped with a "state of the art" digital passive eye tracking system. It records only measurements taken under perfect fixation conditions. Rejected recordings will be automatically repeated. The patient's eye is displayed at any time during the examination for visual control by the examiner. Fixation control using the Heijl-Krakau method is also integrated.

## Short Examination Time

Due to the fact that the units can take former testing protocols of the same patient into consideration, the examination time can be reduced tremendously. Already known defects will be screened and not necessarily checked through a complete testing routine again. With the automated adaption to the patient response the system is able to optimize all time parameters with full result credibility.

## Modern Data Handling

The **Perimat** comes with an integrated modern PC that communicates with all USB printers. All acquired data can be transmitted to a network and sent in many different formats depending on individual requirements. The design of the **Perimat** is more compact due to the integrated PC. This saves valuable space and reduces cables. The **Peristat** can be connected individually to a standard PC or Laptop making configuration economical and flexible.

## Pupil Measurement

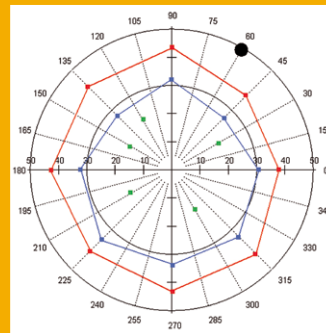
It is possible to measure the pupil diameter at any time even before, after or during the examination.

## LED-Technology / Blue on Yellow Test

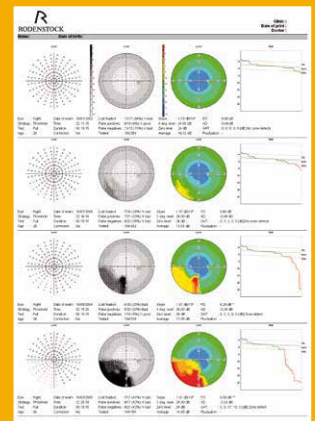
Both systems integrate the LED background illumination and provide a standardised blue on yellow test routine, using Goldmann V fixation spot size. Kinetic test mode: Stimulus with adjustable size, intensity and speed is moving from the periphery to the centre of measurement bowl.

## Kinetic and Static Driving Test (Perimat)

The integrated standard driving test can be modified according to every individual demands, in kinetic or static routine. (**Peristat** static only)



*Kinetic test result is presented in form of isopter, each one in different colour*



*Rodenstock perimeter printout*

## SPECIFICATIONS PERISTAT / PERIMAT

### Measurement bowl (Closed bowl with mechanical ventilation)

- Radius ..... 30 cm
- Measurement range .....  $\pm 50^\circ$
- Fixation targets ..... Central, yellow LED 588 nm
  - 2 fixation targets located at  $\pm 30^\circ$  for driver tests (160° measurement range)
  - 2 fixation diamonds (no central vision and fovea sensitivity)

Test fields	green/white	blue/yellow
Full 50°	165 points	164 points
Glaucoma 22°/50°	101 points	100 points
Central 22°/30°	93/117 points	92/116 points
Wide 22°/30°	128 points	127 points
Peripheral 30°-50°	72 points	72 points
Macula 10°	45 points	44 points
Driving 50°/80°	189 points	188 points

- Bowl illumination** LED illumination
  - 3.2 cd/m<sup>2</sup> or 10 cd/m<sup>2</sup> for white colour
  - 100 cd/m<sup>2</sup> for yellow colour

- Stimulus ..... Goldman size III, V
- Colour ..... Blue, green
- Max stimulus brightness ... 10 000 Asb
- LED light source ..... Embedded stimulus intensity control system
- Fixation monitoring ..... Eye tracking with digital camera, Heijl-Krakau blind spot monitoring

### Chin/Rest

- Movement ..... Electric two directions controlled from software or on front push buttons

### Kinetic test (Perimat only)

- Test field ..... 30°, 40°, 50°
- Meridian angles ..... 0° to 360° with steps of 10°, 15°, 20°, 30° or 45°
- Isopters ..... 8
- Stimulus speed ..... 2°/s, 4°/s, 6°/s, 8°/s

### Embedded PC (Perimat only)

- Operating system ..... Windows embedded, 1 GB RAM, 250 GB hard disc
- Connectivity ..... CRT, Ethernet, Audio, 3 x USB

### Dimensions and electric requirements

- Dimensions (WxDxH) ..... 566 x 633 x 396 mm
- Weight ..... Approx. 19,5 kg
- Input ..... 115 to 230 V AC
- Frequency ..... 50/60 Hz
- Power consumption ..... Less than 95 VA

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