

iCare COMPASS



**More than a standard
perimeter**

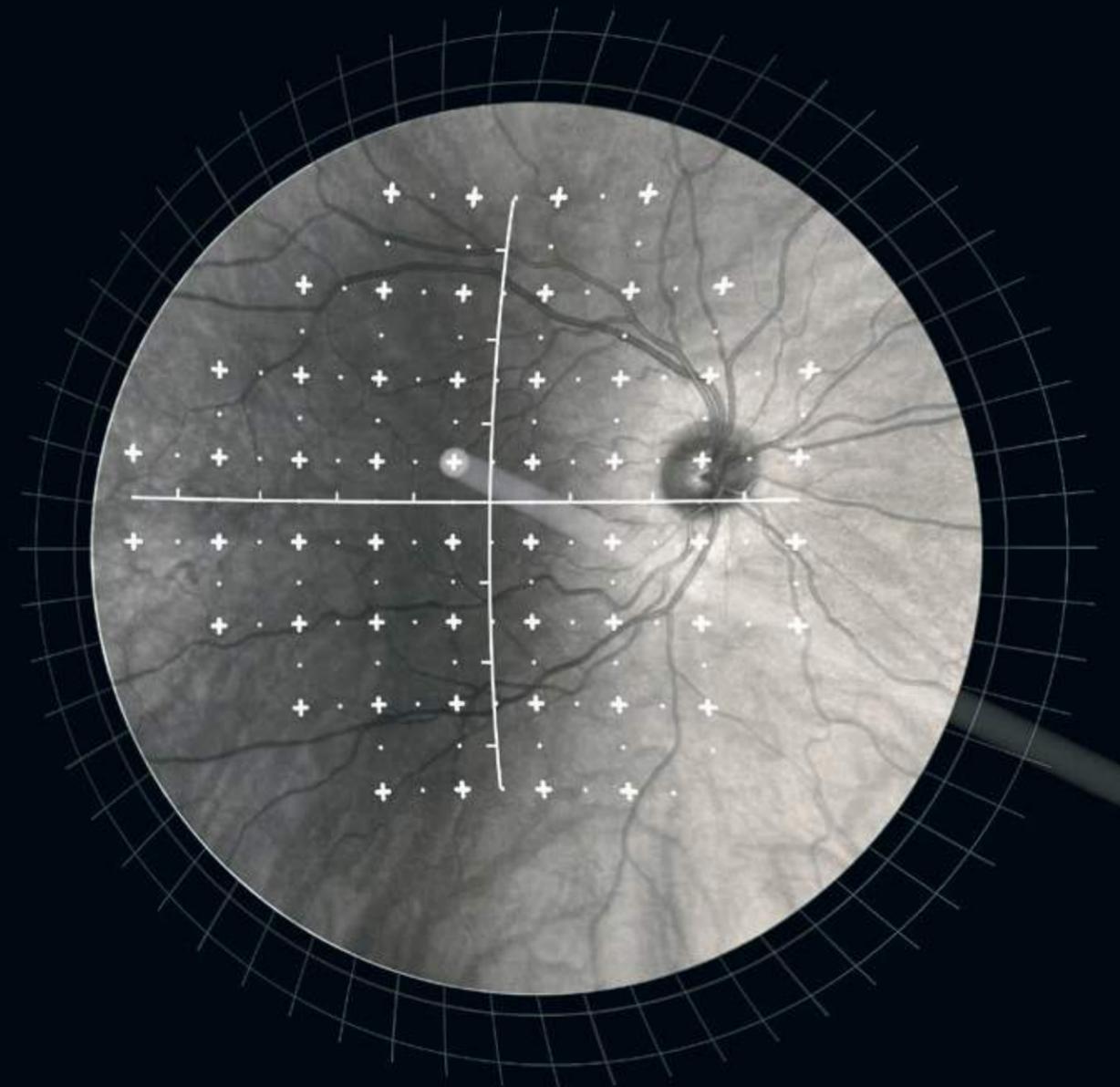
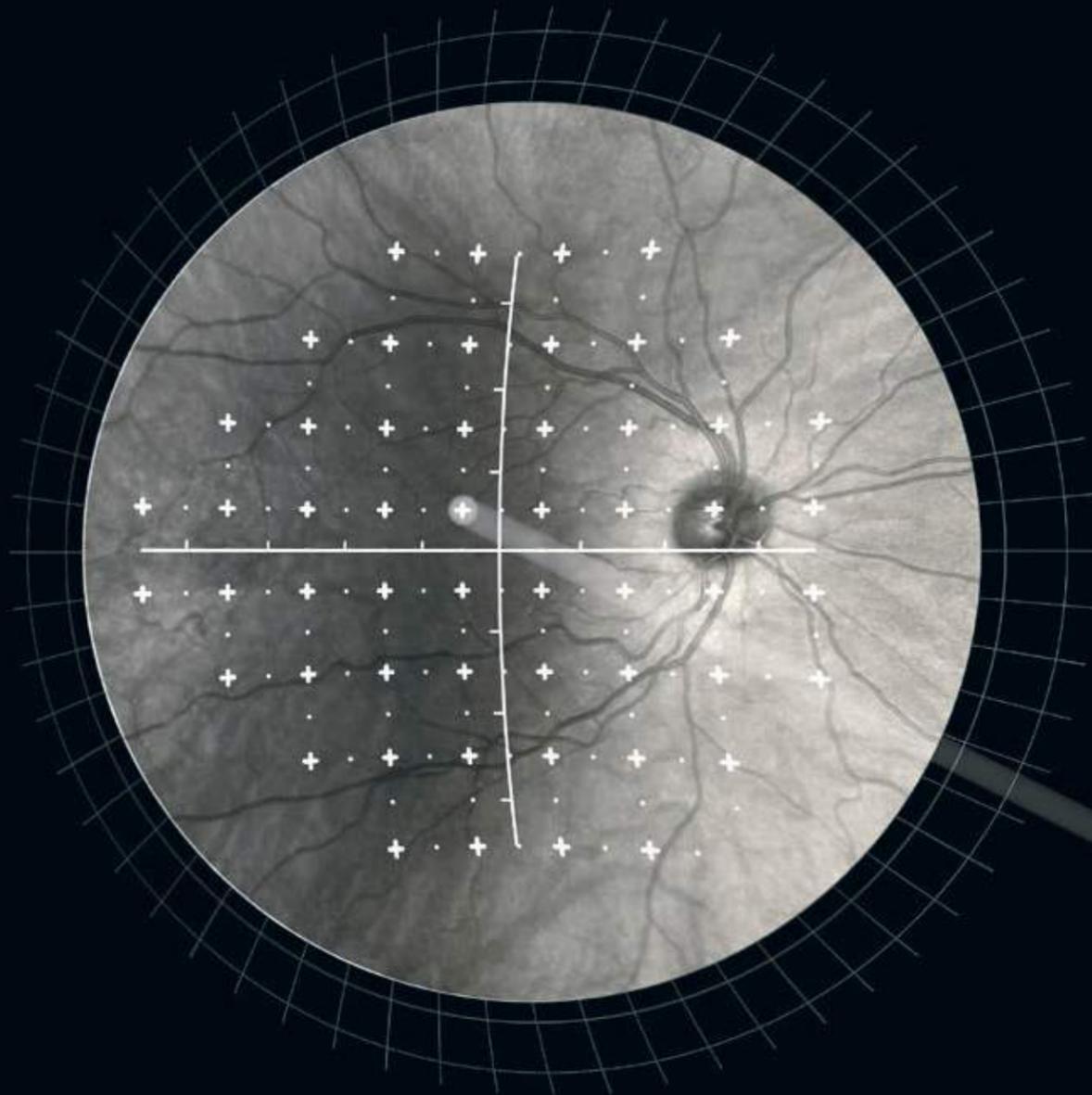
For better perception **icare**

Active Retinal Tracking

Increased reliability in case of fixation losses

Retinal tracking is at the heart of Fundus Automated Perimetry.

Continuous, automated, tracking of eye movements yields to **active compensation for fixation losses**, with perimetric stimuli being automatically repositioned prior to and during projection based on the current eye position.

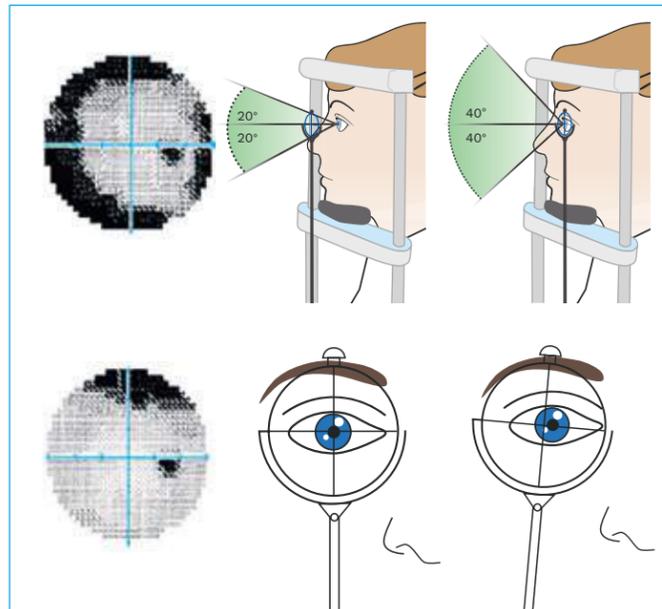


This mechanism is critical to ensure accurate correlation between function (i.e. retinal threshold values) and structure (fundus image) as well as to ensure the reliability of visual field tests measured over time.

In absence of this mechanism, any shift in eye position occurring at the time of stimuli projection would easily produce artifacts in the visual field results, with inaccurate sensitivity values and unreliable visual field retest results being reported.

Easy to use No need for trial lenses

Traditional SAP is performed through refractive correction with trial lenses, which increases examination time and may induce artifacts. iCare COMPASS has no trial lenses at all but is equipped with an automatic refractive correction system (auto-focus), decreasing the examination time and increasing ease of use.



The trial lens of a SAP device may alter the test results:

- if the lens is too close, it can distract the patient by rubbing the eyelashes
- if the lens is too far, the edge of the lens can obscure the field of vision causing an absolute ring scotoma
- if the lens is decentralized, it can cause a partial absolute defect
- if a face mask is used, the trial lens may become foggy.



A lateral view of iCare COMPASS that has no trial lens.

TrueColor Confocal Imaging Enhancing diagnostic and prognostic capabilities in glaucoma management

Evaluation of the fundus aids in a thorough glaucoma assessment. For the first time in a visual field test, iCare COMPASS provides 60° confocal images of the retina in different modalities: TrueColor, infrared and Red-free.



TrueColor Image



Infrared image



Red-free image

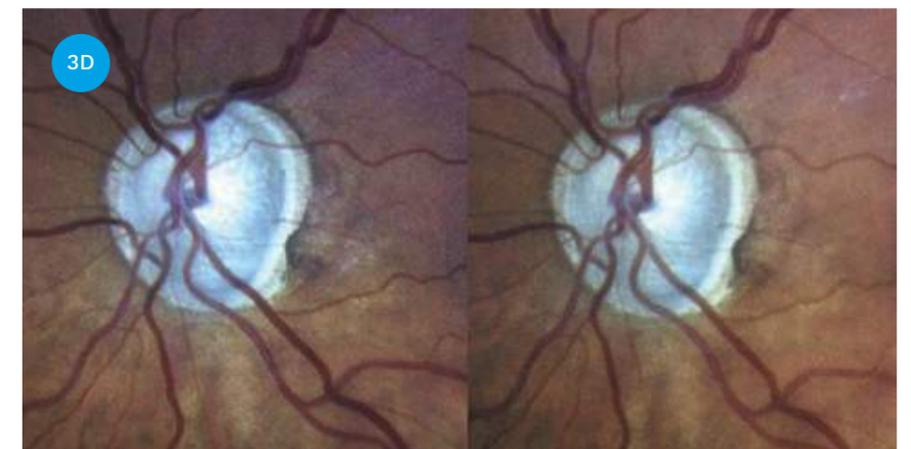
Stereo Viewer technology The best 3D visualization of the ONH

Glaucoma diagnosis, management and research, require complex assessments of the optic disc. 3D images of the optic nerve head (ONH) are essential tools in such evaluations.

The unique 3D Stereo Viewer technology of COMPASS automatically captures two separate photos of the nasal field, at different angles and different focal planes (bifocal), creating outstanding 3D perception of the disc.

ONH stereo visualization:

- Automatic
- Ultra High resolution
- Reliable



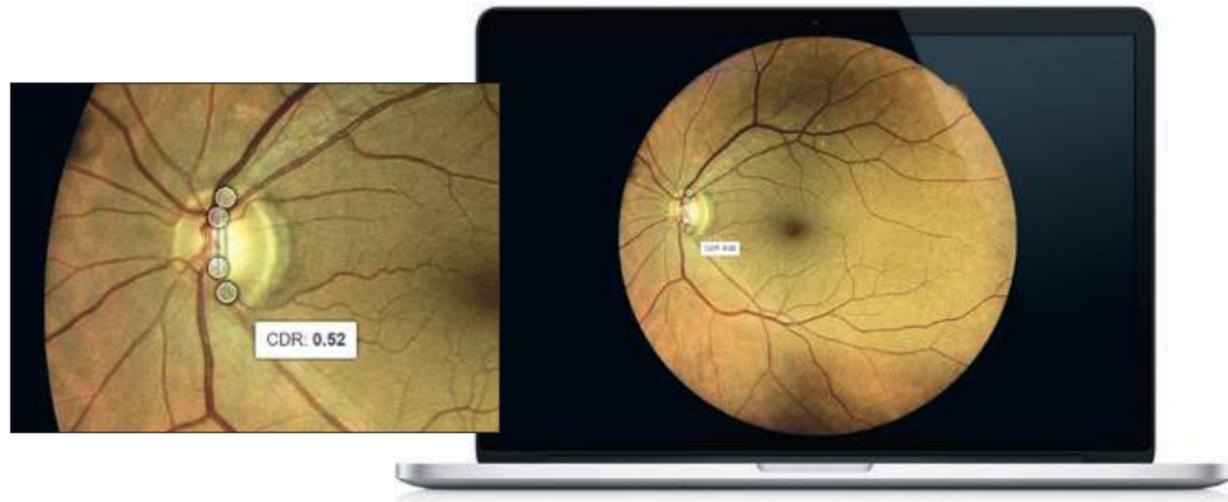
Remote Viewer software

Seamless connectivity without the need of a dedicated application

iCare COMPASS offers embedded capabilities for network connectivity, for both remote **data review** and data backup. The iCare COMPASS Remote Viewer is a browser-based software that allows for reviewing from any network computer on the same local area network (LAN), with password protection.

The Remote Viewer provides image comparison tools, anatomic measurements, post-processing tools and more.

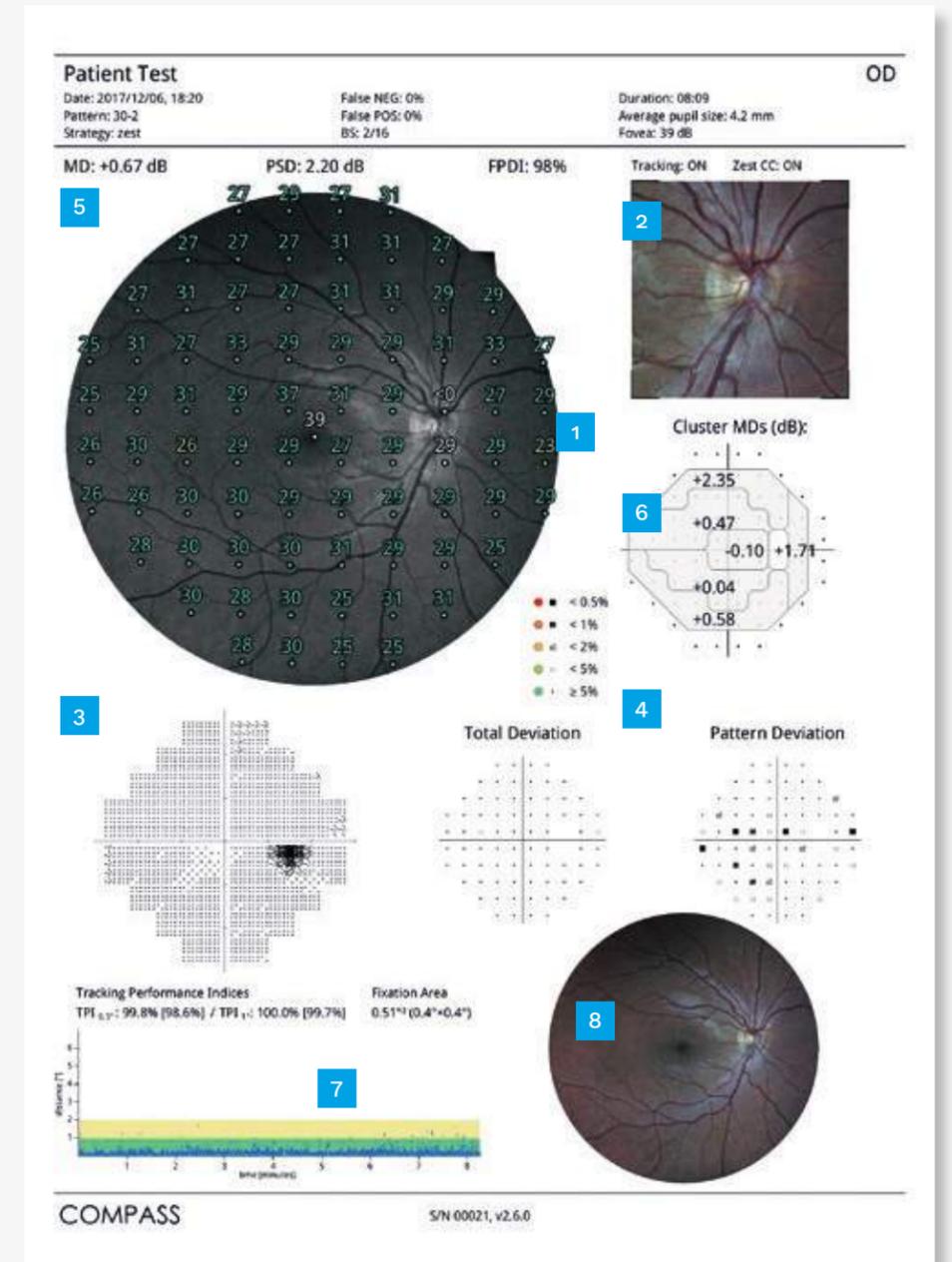
- Images taken at different times can be registered and displayed as rapidly alternating to facilitate detection of morphologic changes over time
- **Cup to disc calculation** – ratios can be measured and stored



iCare COMPASS printouts

Exam report

- 1 Fundus Automated Perimetry (dB) over Red-free image
- 2 Color image of ONH
- 3 Standard VF map
- 4 Deviation maps
- 5 Mean Deviation, Pattern Standard Deviation & Fundus Perimetry Deviation Index
- 6 Mean Deviation Cluster
- 7 Fixation plot
- 8 Color Retinal Image*

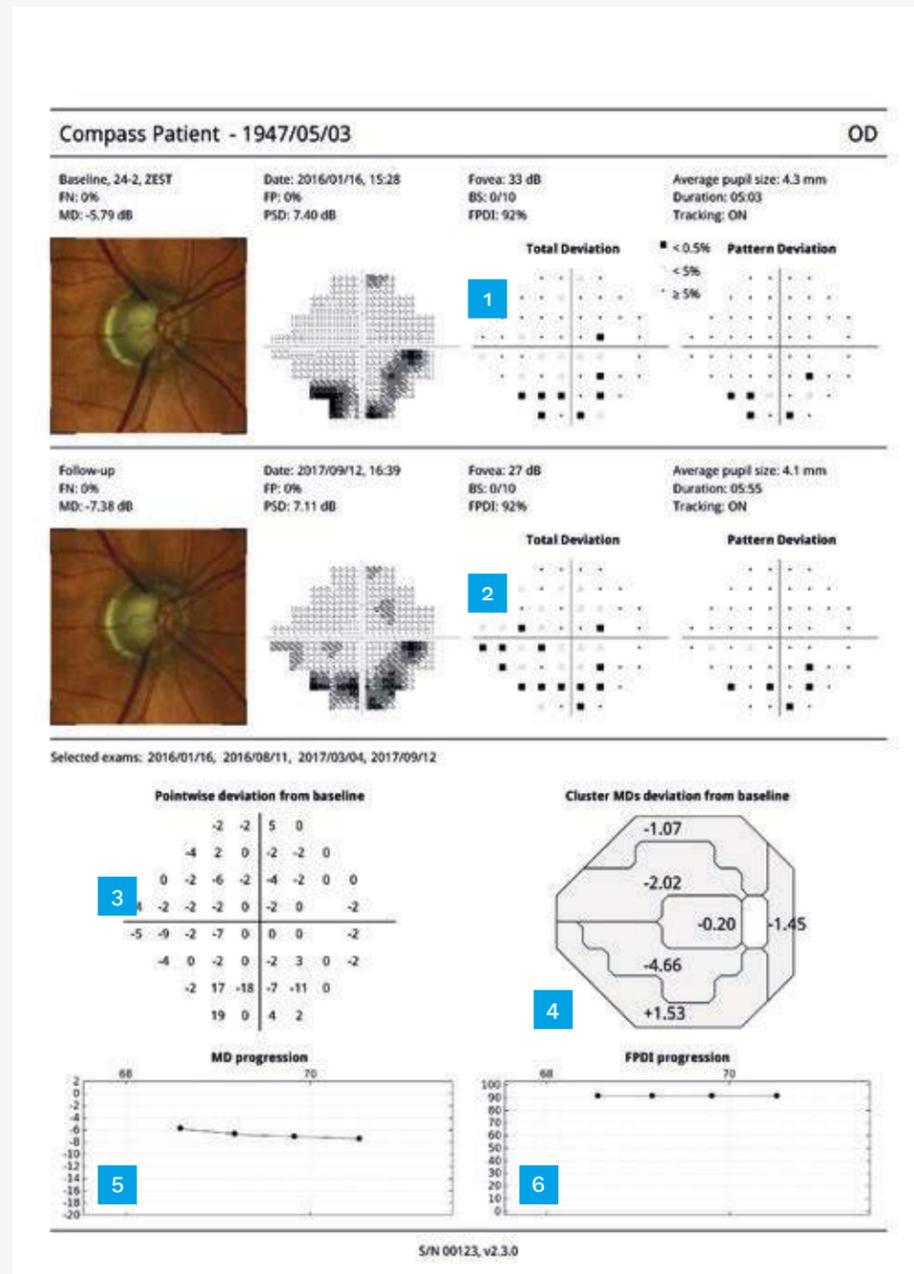


* Glaucoma Staging System 2 available outside of the USA.

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Progression report

- 1 Baseline test
- 2 Follow-up test
- 3 Pointwise differential map
- 4 Cluster differential map
- 5 Mean Deviation progression
- 6 Fundus Perimetry Deviation Index progression



Technical data

iCare COMPASS

Class and type of applied part

1, B (according to IEC 60601-1)

Fundus Automated Perimetry

Projection field: 30° (radius)
 Background luminance: 31.4 asb
 Maximum luminance: 10000 asb
 Dynamic range: 0 - 50 dB
 Stimulus size: Goldmann III
 Stimulus duration: 200 ms
 Test strategies: ZEST, 4-2
 Threshold tests: 24-2, 30-2, 10-2
 Suprathreshold testing
 Quick Suprathreshold testing
 Foveal threshold testing
 Fixation control: 25 Hz automated retinal tracking
 Automatic pupil size measurement

Fundus Imaging

Field of view: 60° (diameter)
 Bi-focal Stereo Image of the ONH
 Sensor resolution: 5 Mpixel (2592x1944)
 Light source: infrared (825-870 nm) and white LED (440-650 nm)
 Imaging modalities: color, infrared, red-free
 Resolution: 17 μm

Other features

Automatic operation: auto-alignment, auto-focus, auto-retinal tracking, auto-pupil tracking, auto-exposure, auto-capture
 Non-mydratic operation: minimum pupil size 3 mm
 Working distance: 28 mm
 Auto-focusing adjustment range: -12D to +15D
 Tablet operated, with multi-touch, color display
 Ethernet connection
 DICOM support, modality worklist
 Hard drive: SSD, 240 GB

Remote Viewer

Manual cup to disc calculation (on color picture)
 Flickering

Dimensions

Weight: 25 Kg / 55 lbs
 Size (WxDxH): 360 mm x 620 mm x 590 mm / 14.2" x 24.1" x 23.2"

Electrical requirements

Rated voltage: 100-240 VAC, 50-60 Hz
 Power consumption: 80 W

iCare. For better perception.

iCare is a trusted partner in ophthalmic diagnostics, offering physicians fast, easy-to-use, and reliable tools for diagnosis of glaucoma, diabetic retinopathy, and macular degeneration (AMD). Our product assortment includes automated TrueColor imaging devices, perimeters and handheld rebound tonometers.

We believe that ophthalmic care must be accessible, effortless, and reliable, and we aim at establishing the next level of eye care.

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