Setting the Platinum Standard in Perimetry
TrueColor Confocal Imaging
Enhancing diagnostic and prognostic capabilities in glaucoma management

Evaluation of the fundus is crucial in a thorough glaucoma assessment. For the first time in a visual field test, COMPASS provides 60° confocal images of the retina in different modalities: TrueColor, Infrared and Red-free.
**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 of fixation losses, with perimetric stimuli being automatically re-positioned 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).

In absence of this mechanism, any shift in eye position occurring at the time of stimuli projection would easily produce artifacts in VF results, with an inaccurate sensitivity being reported.

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**Bifocal Stereo Image**  
**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 View technology of COMPASS captures automatically 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: as never seen before!
- Automatic
- Ultra High resolution
- Reliable

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**Easy to use**  
**No need for trial lenses with Automatic Refraction Correction**

Traditional SAP is performed through refractive correction with trial lenses, which increases examination time and may induce artifacts. COMPASS is equipped with an automatic refractive correction system, improving patient flow.

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**Remote viewing software**  
**Seamless connectivity without the need of a dedicated application**

COMPASS offers embedded capabilities for network connectivity, for both remote data review and data backup. The 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
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. Glaucoma Staging Classificator

Progression Report
Baseline test
Follow-up test
Pointwise differential map
Cluster differential map
Mean Deviation progression
Fundus Perimetry Deviation Index progression

Benefits at a glance
- Combined structure and function analysis
- High test – retest repeatability
- Reliable automated follow up with combined structure-function progression report
- High-resolution TrueColor confocal imaging of the retina & outstanding 3D viewing of optical disk details
- Comprehensive VFA & fundus related reports
- Automatic refractive correction, no trials lens required
- More patient comfort: test can be suspended at any time without data loss

Technical specifications*

Class and type of applied part
1, B (according to EN 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 (26")
- Stimulus duration: 200 ms
- Test strategies: ZEST, 4-2
- Threshold tests: 30-2, 24-2, 10-2
- 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

* Specifications are subject to change without notice for improvement.

Other features:
- Automatic operation: auto-alignment, auto-focus, auto-retinal tracking, auto-pupil tracking, auto-exposure, auto-capture
- Non-mydriatic 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 disk: SSD, 256 GB

Remote Viewer:
- Manual cup to disc calculation (on color picture)
- Imaging Flickering

Dimensions:
- Weight: 25 Kg
- Size (WxDxH): 360mm x 620mm x 590mm

Electrical requirements:
- Power: 100-240 VAC, 50-60 Hz
- Consumption: 80 W