Humphrey Visual Field Analyzers
Innovation and connectivity
Offering the industry’s broadest selection of perimetry products, ZEISS continues to set the gold standard for quality, precision and innovation worldwide.

**Humphrey Field Analyzer: HFA II-i Series**
**The gold standard with comprehensive connectivity options**

Validated by more than 30 years of research, design and clinical experience, the Humphrey® Field Analyzer (HFA™) is the accepted standard of care to aid in glaucoma diagnosis and management. With over 65,000 installed units worldwide, the HFA is the premier automated visual field analyzer.

**Advanced diagnostics and analyses**
- **Guided Progression Analysis™ (GPA™):** The perimetry progression analysis software identifies statistically significant change automatically.
- **Visual Field Index™ (VFI™):** A simple and intuitive global index to determine percentage of field loss on every visual field.1,2
- **STATPAC™:** The language of perimetry compares results to age-normative and glaucoma databases.
- **SITA™:** A patented acquisition algorithm for fast and accurate visual field threshold measurements; the most commonly used test strategy, incorporates patient responses in real time.
- **Data management connectivity:** Patient reports and other data can be electronically transferred to ZEISS FORUM® Eye Care Data Management, EMRs and other data management solutions.
- **Gaze tracking:** Uniquely tracks patient’s fixation angle and prints the gaze error to help the doctor judge test quality.

**FORUM Glaucoma Workplace**
**Integrated glaucoma management**

- Enables analysis of HFA data within the FORUM Viewer
- Combines structure and function information from the CIRRUS™ HD-OCT and HFA in one report with FORUM
- Automatically generates reports (e.g. SFA, Overview, GPA, visual field reports)
- Enables interactive adjustment of GPA parameters (e.g. change baseline)
- Shows evolution of the GPA triangle plots animated over time (“cine-mode”)
- Improves patient flow and education

**Humphrey Matrix**
**Proven early visual field loss detection, now with connectivity**

The Humphrey Matrix® is the ideal solution for busy practices for case detection and fast threshold testing. In addition to simplifying visual field testing, numerous studies show that frequency doubling perimetry can detect visual field loss missed by other methods.3,6

**Humphrey FDT**
**Clinically validated for efficient visual field loss detection**

Multiple studies7-21 have shown that the Humphrey FDT® detects visual field loss due to a variety of ocular diseases, including glaucoma.
FORUM Glaucoma Workplace
Structure and function analysis at your fingertips

Doctors want the ability to analyze HFA data in their office. Now, with the FORUM® Glaucoma Workplace from ZEISS, they have it. The FORUM Glaucoma Workplace uses the same STATPAC engine as the HFA. Guided Progression Analysis™ (GPA™) analyses are automatically performed and instantly available once three or more exams have been stored. For the first time, you can change the baselines for GPA analyses and generate HFA reports from a Mac or PC right in your practice.

Doctors also want greater integration of HFA and CIRRUS™ HD-OCT analysis data in a single report. Here, too, FORUM delivers.

Streamline your workflow
HFA analyses in the lane
The ZEISS FORUM Glaucoma Workplace easily allows you to review and generate HFA reports directly in the FORUM Viewer. For follow-up visits, a GPA summary can be automatically produced following 3 or more exams. And, with just a single click of the mouse, baseline exams can be changed and outliers removed. Additional to the GPA screen, an overview of visual field exams is available.

Review and analysis at your fingertips
FORUM gives you on-demand access to visual field data, OCT scan data, and structure and function results wherever you are, whenever you want – including your office, at a workstation, or in the examination lanes.

Better patient flow throughout the office
The FORUM Glaucoma Workplace streamlines your assessments for more efficient patient flow with no compromise to the quality of care. Now, instead of searching through stacks of paper reports, you can fully focus on the patient examination.

Simplified patient education during the consultation
GPA and Combined Reports from FORUM save you time and simplify patient consultations, enhancing the patient education experience and potentially improving compliance.
Focus your assessments

Adjust GPA parameters as needed

If necessary, you can adjust GPA parameters by conveniently changing the baseline, resetting the baseline after surgery, or excluding any outliers.

Combined structure and function reports

The HFA-CIRRUS Combined Report from FORUM summarizes patient structure and function analyses in a single display. FORUM delivers this OD-OS integration to your lanes to help you assess patient status at a glance.

Master your data

FORUM Viewer integration
The FORUM Glaucoma Workplace is a clinical application that is directly integrated into the FORUM infrastructure.

Advanced user experience
As an integral part of the modern FORUM platform, the FORUM Glaucoma Workplace lets you take full advantage of the latest FORUM enhancements and features, giving you an advanced user experience across all solutions.

Convenient installation
ZEISS service technicians will assist you with all aspects of the software installation.

Consistent data management
FORUM ensures end-to-end data consistency across the board – between the HFA, CIRRUS, FORUM and the FORUM Glaucoma Workplace.
Complete portfolio of HFA II-i perimeters

Humphrey Field Analyzer II Model 750i
The ultimate for practice efficiency, advanced features and long-term value.

Humphrey Field Analyzer II Model 745i
All the features of the Humphrey 740i plus SITA-SWAP software for early detection.

Humphrey Field Analyzer II Model 740i
The basic model in automated visual field testing for comprehensive care.

Advanced analysis
The HFA is the only perimeter with progression analysis validated in the Early Manifest Glaucoma Trial.22

• Enhanced Guided Progression Analysis (GPA) software identifies statistically significant progression automatically, and presents “at a glance” visual field progression analysis in a single page report.

• Visual Field Index (VFI) is a simple and intuitive global index to determine percentage of field loss.1,2

• Pattern Deviation Plots identify localized field loss, minimizing ocular media effects such as cataracts.

• STATPAC, the language of perimetry, compares results to proprietary age-normative and glaucoma databases.

Early glaucoma detection
• SITA-SWAP software reduces blue-yellow threshold test time to just 4–6 minutes, providing a clinically practical tool for early detection of glaucoma.23,24

Enhanced exam reliability
• Patented system automatically tracks and aligns head and eye position.

• Kinetic, Custom and Social Security Disability testing provide a wide range of special purpose testing protocols.

• Connectivity to office networks, EMRs and FORUM® Eye Care Data Management System.

Humphrey Field Analyzer – HFA II-i Series
The gold standard with comprehensive data management integration.
The HFA Guided Progression Analysis (GPA) software accurately differentiates statistically significant progression of visual field loss from random variability. The analysis is based upon detailed empirical knowledge of the variability found at various stages of glaucomatous visual field loss through information acquired in extensive multi-center clinical trials worldwide.

GPA Summary Report

1. Baseline Exams
   Establish initial visual field status.

2. VFI Value
   A summary measurement of the patient’s visual field status, expressed as a percent of a normal age-adjusted visual field.

3. VFI Rate of Progression Analysis
   Trend analysis of the patient’s overall visual field history.

4. VFI Plot
   Regression analysis of VFI values and 3 to 5 year projection.

5. VFI Bar
   A graphical depiction of the patient’s remaining useful vision at the current VFI value along with a 3 to 5 year projection of the VFI regression line if the current trend continues.

6. Current Visual Field Summary
   Complete report of current visual field including VFI, MD, PSD, the Progression Analysis Plot and the GPA alert.

7. GPA Alert
   A message that indicates whether statistically significant deterioration was noted in consecutive tests.
Humphrey Matrix 800
With Frequency Doubling Technology.
Proven to find early visual field loss. Quickly. Easily.

Operating a visual field instrument doesn’t get much easier than a Humphrey Matrix. It provides the ideal solution for busy practices for case detection and fast threshold testing. In addition to simplifying visual field testing, numerous studies show that frequency doubling perimetry can detect visual field loss missed by other methods.\textsuperscript{26}

Validated clinical performance
- Proven diagnostic performance in detecting early visual field loss.\textsuperscript{27,28}
- 15% faster threshold testing on average and up to 70% faster for more advanced cases.\textsuperscript{29}
- Video eye monitoring and comfortable chin rest simplify patient alignment and fixation monitoring.
- Patient-friendly stimulus eliminates the need for trial lens correction in most patients.\textsuperscript{26}

Designed for your practice
- HFA-style reports are simple to interpret.
- Light weight, compact and portable.
- Simple operation.
- Ability to test in normal ambient light; no darkened room required.
- Connectivity to office networks, EMRs and FORUM.
Patented Frequency Doubling Technology
The Humphrey Matrix frequency doubling stimulus can preferentially test for sensitivity loss in the magnocellular pathways of the visual system. Alternating black and white bars create a patient-friendly doubling illusion. Studies demonstrate that while all ganglion cell types are affected by glaucoma, and no single test always identifies the functional effects of glaucoma first, the Humphrey Matrix has proven high sensitivity and may find defects earlier in a unique subset of patients.
Humphrey FDT
Frequency Doubling Technology for efficient visual field loss detection.

Clinically validated
Multiple studies\textsuperscript{7-21} have shown that the Humphrey FDT detects visual field loss due to a variety of ocular diseases, including glaucoma. The FDT has been clinically validated in more than 170 peer-reviewed publications.

Easy to operate and interpret
The FDT is optimized for use in both ophthalmological and non-ophthalmological settings and may be operated by healthcare workers having little or no specialty training in ophthalmology.

- Patients may be tested using their own glasses, no requirement for trial lenses or eye patches.\textsuperscript{23}
- Short test: \textasciitilde 40 seconds per eye.
- Simplified interpretation of results.

- Large, age-related normative database.
- Compact design that fits anywhere in your practice.
- Easy and intuitive operation for users of any level of experience.
- Dependable performance in ambient light.
- Convenient low-cost, built-in printer.*

*FDT does not include electronic connectivity.
**Technical Data**  
**Specifications**

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<td>Native generic PCL 3, PCL 5 and postscript printer support for local, shared and networked printers</td>
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<td>17” (43 cm)</td>
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<td>Meets UL, CSA and CE standards</td>
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Selected references


Within ± 3 diopeters.


33 Trial lenses are required beyond ± 3 diopeters for the Matrix and beyond ± 7 diopeters for the FDT.
You + ZEISS = Evolving Glaucoma Management

“There are multiple challenges for the doctor managing glaucoma: first, to accurately diagnose and stage glaucoma; and, second, to quickly identify progression in those patients where therapy has been insufficient.”

— Nathan Radcliffe, MD

CIRRUS™ HD-OCT
Brilliant images and applications for greater glaucoma insight

Humphrey® Field Analyzer (HFA™)
The most advanced and accurate picture of glaucoma functional status and progression

CIRRUS™ photo
Get the complete picture with the combined OCT and fundus imaging modalities in one system

Humphrey Matrix® 800
Frequency doubling technology detects early loss

VISUCAM® Digital Fundus Camera
Compact and integrated fundus imaging to visualize and document RNFL and ONH

FORUM®
Comprehensive eye care data management for better workflow efficiency

Humphrey Matrix 800
Humphrey Field Analyzer
Humphrey FDT

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