



## Humphrey Field Analyzer 3 from ZEISS

The best just got faster



# Streamlining clinic flow.

ZEISS Humphrey Field Analyzer 3



// INNOVATION  
MADE BY ZEISS

# The ZEISS Humphrey Field Analyzer 3 featuring SITA Faster

The Humphrey® Field Analyzer 3 (HFA3) combines everything you've always valued in a Humphrey with more than you can imagine to streamline your workflow.

## The best just got faster

### Key benefits

**Reduce visual field testing time** with NEW SITA™ Faster.

**Mixed Guided Progression Analysis™ (GPA™):**

Inter-mixing of SITA Standard, SITA Fast and SITA Faster.

**Reduce setup time** with a single trial lens. Using liquid pressure, the new Liquid Trial Lens™ instantly delivers each patient's refractive correction with the touch of a button.\*

**Improve confidence** in test results with RelEYE™.\*\*

Instantly review the patient's eye position, at any stimulus point.

**Simplify operation** with the intuitive new SmartTouch™ interface that novice users will appreciate.

**Gain peace of mind** with seamless transferability of legacy data from the HFA II and HFA II-i to the HFA3.



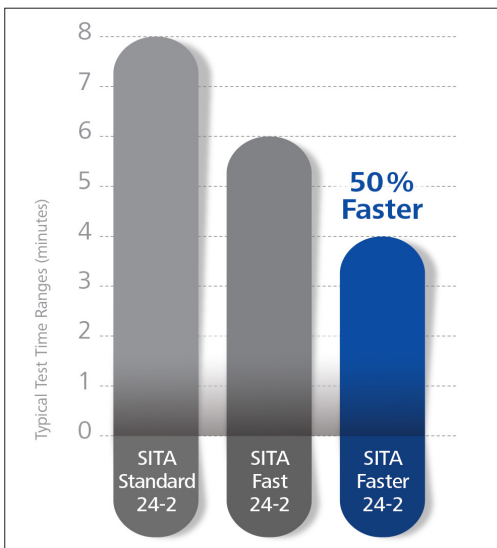
\* Available correction range is -8 to +8 diopters sphere. Spherical correction only.  
Liquid Trial Lens available on the HFA3 model 860.

\*\* RelEYE is available on both the instrument and through Glaucoma Workplace.





## Faster, easier, more reliable than ever



SITA Strategies

**SITA Faster** takes about half the time of SITA Standard and 70% of SITA Fast with the same reproducibility as SITA Fast. This may improve patient satisfaction with perimetric testing and reduce patient fatigue.

**Mixed GPA** allows free mixing of SITA Faster, SITA Fast and SITA Standard and allows full access to the patient's progression analysis including all SITA tests.

**Liquid Lens technology** allows you to automatically load each patient's refractive correction from the previous exam.

**SmartTouch interface on the HFA3** platform gets you up and running with fewer touches. Simply select the patient's name and press start, all using a color graphic user interface.

### **Kinetic Perimetry:**

Kinetic perimetry enhancement provides an easy-to-use graphical user interface with full 180° testing range.

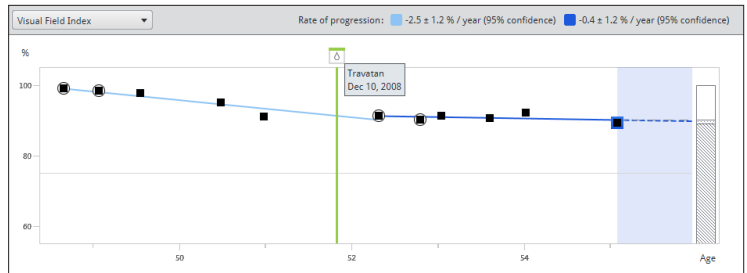


## Review the complete HFA3 exam history with Glaucoma Workplace\*

- Advanced, interactive review of all standard HFA analyses and GPA, including:
  - Mixed GPA
  - Trend analysis by superior vs. inferior hemifield
  - 10-2 MD trend analysis
  - Dual baselines
- Dynamic Structure-Function GPA for both HFA3 and CIRRUS HD-OCT on a single screen
  - Clinical Events indicate timing of intervention and initiation of new trend analysis
  - Color-coded alerts help you quickly identify statistically significant change
  - View HFA3 and CIRRUS information efficiently displayed in simple side-by-side format

**Combined Reports: See the whole picture**  
 ZEISS CIRRUS™ HD-OCT or CIRRUS™ photo to generate combined structure and function reports in a single display.

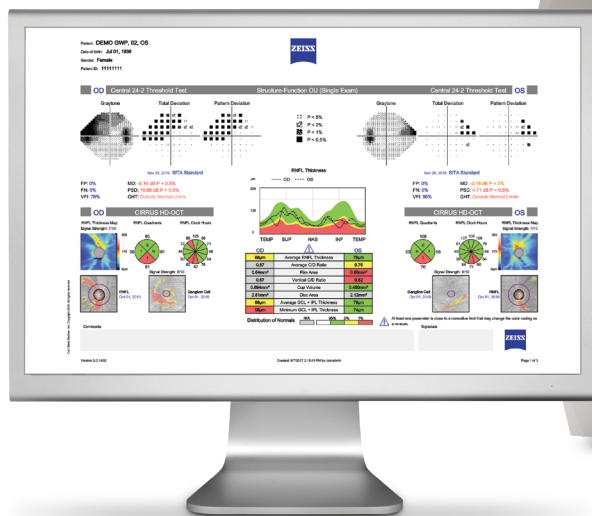
## HFA3 Dual Baseline Report and Clinical Event



## HFA3 & OCT Structure-Function GPA Report



## HFA3 and CIRRUS HD-OCT Combined Report



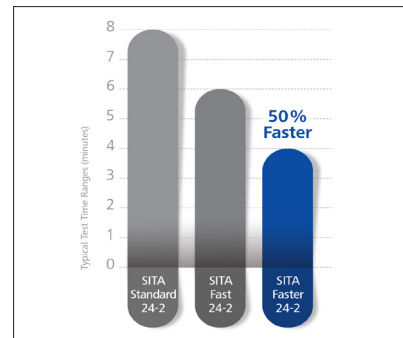
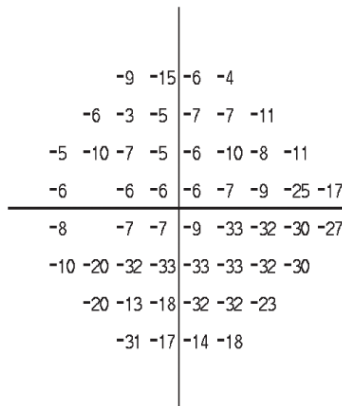
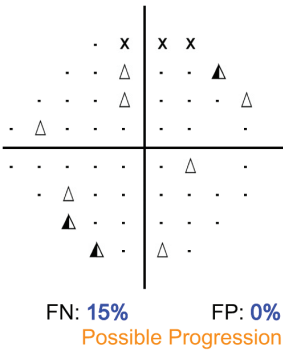
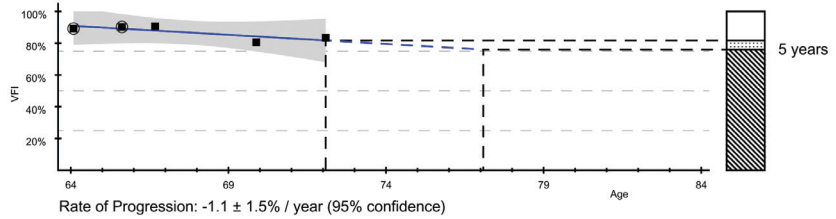
\* ZEISS FORUM and Glaucoma Workplace are required.

# Everything you expect from a Humphrey

The advances in HFA3 from ZEISS only add to the reliable standard that thousands of practices already depend on for critical diagnoses. The new model continues to deliver the interactive analysis you need, when and where you need it.

## Visual Field Index

A simple and intuitive global index. Its most powerful application is GPA, which trends VFI over time.



## GPA Alert

A message in simple language that indicates whether statistically significant deterioration was identified in consecutive visits.

## STATPAC™

The language of perimetry, STATPAC compares results to proprietary age normative and glaucoma databases.

## SITA Strategies

Unsurpassed in efficiency, SITA is patient responsive: It learns to perform as fast as the patient wants to go.

## Mixed GPA

Gain full access to the patient's progression analysis including all SITA tests with new mixed GPA.



## Connectivity

For comprehensive connectivity, HFA3 can be connected to FORUM® with Glaucoma Workplace. HFA3 also supports common file folder sharing used by most Electronic Medical Record Systems (EMRs).

# Technical data

## Specifications

### The HFA3 that's right for you

- All **HFA3 Models** perform custom static testing with custom static patterns for stimulus sizes I through V, and feature Guided Progression Analysis (GPA) to assist in care management over time.
- The **HFA3 Model 840**, like all models, performs custom static testing with custom static patterns for stimulus sizes I through V, and features Guided Progression Analysis (GPA) to assist in care management over time. In addition, it includes improved gaze tracking and head tracking.
- The **HFA3 Model 850** adds vertex monitoring, blue-on-yellow (SWAP) and the new ReEYE monitor.
- The **HFA3 Model 860** delivers all these features and adds the automated Liquid Trial Lens.

Specifications	Humphrey FDT	Humphrey Matrix 800	HFA3		
			840	850	860
<b>Test specifications</b>					
Maximum temporal range (degrees)	30	30	90	90	90
Stimulus duration	200-400 ms	300 ms	200 ms	200 ms	200 ms
Visual field testing distance	Infinity	Infinity	30 cm	30 cm	30 cm
Background illumination	100 cd/m <sup>2</sup>	100 cd/m <sup>2</sup>	31.5 ASB	31.5 ASB	31.5 ASB
<b>Threshold test library</b>					
N-30	•	•			
C-20	•				
24-2, 30-2, 10-2, Macula		•	•	•	•
60-4, Nasal step			•	•	•
<b>Threshold test strategies</b>					
MOBS	•	•			
ZEST		•			
SITA Standard, SITA Fast, SITA Faster, Full Threshold, FastPac			•	•	•
SITA-SWAP				•	•
<b>Suprathreshold test library</b>					
C40, C76, C80			•	•	•
C64, C-Armaly			•	•	•
C-20	•				
N-30	•	•			
24-2		•			
Peripheral test patterns			•	•	•
<b>Suprathreshold test modes</b>					
Age corrected	•	•	•	•	•
Threshold related, Single intensity			•	•	•
<b>Specialty test library</b>					
Social Security Disability, monocular, binocular				•	•
Esterman monocular, binocular, superior 36, 64			•	•	•
Kinetic testing				•	•
Custom Kinetic testing				•	•
Custom Static testing			•	•	•

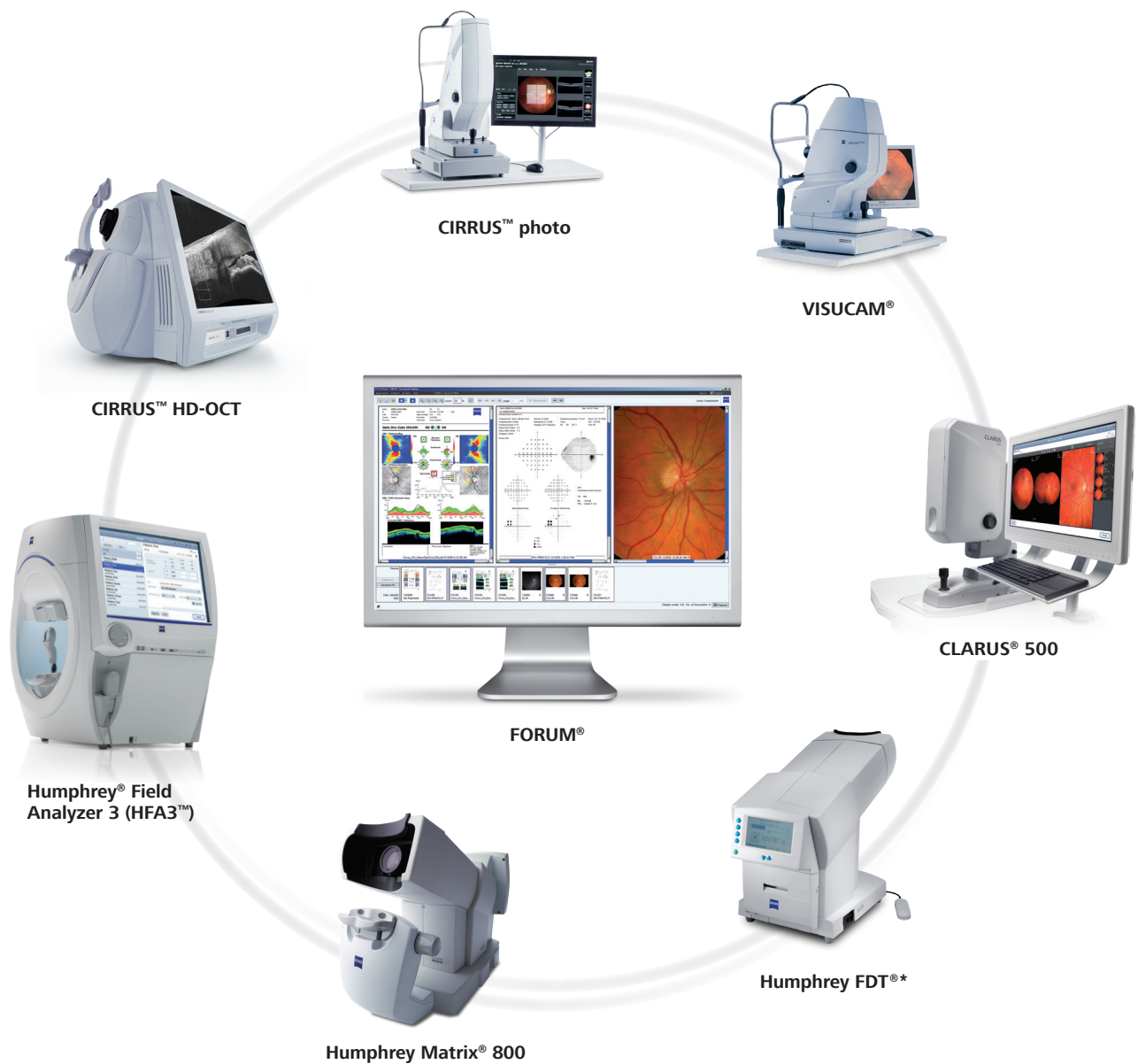


Features	Humphrey FDT	Humphrey Matrix 800	HFA3		
			840	850	860
<b>Fixation control</b>					
Heijl-Krakau blind spot monitor	•	•	•	•	•
Video eye monitor		•	•	•	•
Gaze tracking			•	•	•
Head tracking			•	•	•
Vertex monitoring				•	•
<b>Operator interface</b>					
Display	LCD	LCD	Touch-screen LCD		
Keyboard		•	•	•	•
<b>Stimulus</b>					
Frequency doubling	•	•			
White-on-white			•	•	•
Red- or blue-on-white			•	•	•
Blue-on-yellow (SWAP)				•	•
<b>General testing features</b>					
Stimulus sizes	10°	2°, 5°, 10°	Goldmann I-V	Goldmann I-V	Goldmann I-V
Foveal threshold testing			•	•	•
Automatic pupil measurement			•	•	•
Liquid Trial Lens (AutoTLC)					•
RelEYE eye review				•	•
<b>Test storage</b>					
User-defined		•	•	•	•
<b>Software features</b>					
Single Field Analysis (SFA)			•	•	•
Glaucoma Hemifield Test (GHT)		•	•	•	•
Visual Field Index (VFI)			•	•	•
Guided Progression Analysis (GPA)			•	•	•
Mixed GPA			•	•	•
Serial field overview		•	•	•	•
Networking		•	•	•	•
FORUM Connectivity		•	•	•	•
DICOM Connectivity		•	•	•	•
<b>Printer</b>					
Thermal printer	•				
Native generic PCL 3, PCL 5 and postscript printer support for local, shared and networked printers		•			
Native postscript printer support for network capable printers			Optional	Optional	Optional
<b>Data storage, retrieval and analysis</b>					
Hard drive		250 GB	500 GB	500 GB	500 GB
USB		•	•	•	•
CD-R/W drive		•			
<b>Dimensions</b>					
Height	17" (43 cm)	17" (43 cm)	23" (58 cm)		
Width	10" (25 cm)	12.2" (31 cm)	20" (51 cm)		
Depth	19" (48 cm)	33.5" (85 cm)	18" (46 cm)		
Weight	19 lbs (8.6 kg)	37.5 lbs (17.4 kg)	63 lbs (28.7 kg)		
<b>Electrical requirements</b>					
	100-120V, 50/60Hz 230V, 50/60Hz	100-240V~, 50/60Hz, 200VA max	100-120V~, 50/60Hz, 4.0A 230V~, 50/60Hz, 1.8A		
<b>Standards</b>					
Meets UL, CSA and CE standards	•	•	•	•	•

For years, the Humphrey Field Analyzer has brought certainty to glaucoma diagnostics. The HFA3 preserves everything that made its predecessors the gold standard in perimetry—then takes that standard to new heights with innovations that enhance usability to streamline clinic flow.

### Certainty for years with the ZEISS Glaucoma Suite

A broad range of innovative diagnostic and imaging solutions are transforming your point of care. Today, the **ZEISS Glaucoma Suite** delivers a ZEISS solution that can stand alone or seamlessly integrate into a comprehensive all-practice solution through FORUM, putting critical information at your fingertips—in an instant.



### Partnering with reliable expertise

ZEISS is dedicated to enhancing the long-term value of your investment through a highly skilled field and technical support organization. ZEISS service agreements encompass the full range of support offerings to ensure optimal system uptime and workflow convenience. You can count on ZEISS to support your needs for high productivity and cost containment while delivering the optimum in customer care.

\* FDT does not connect to FORUM



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Humphrey Field Analyzer



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