



Humphrey Field Analyzer 3 from ZEISS

The best just got better

**NEW HFA3
with
Liquid Lens
Technology**



We make it visible.

The moment you discover how your
NEW Humphrey accelerates clinic flow.
This is the moment we work for.



// INNOVATION
MADE BY ZEISS

The new ZEISS Humphrey Field Analyzer 3 featuring Liquid Lens technology

The new Humphrey® Field Analyzer 3 (HFA3) combines everything you've always valued in a Humphrey with more than you could imagine to make it faster, easier and more reliable than ever.

The best just got better.

Key benefits

HFA3 provides a streamlined and faster workflow with an array of new features designed to:

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.*

Save time with an intuitive new SmartTouch™ interface that helps to shorten chair time.

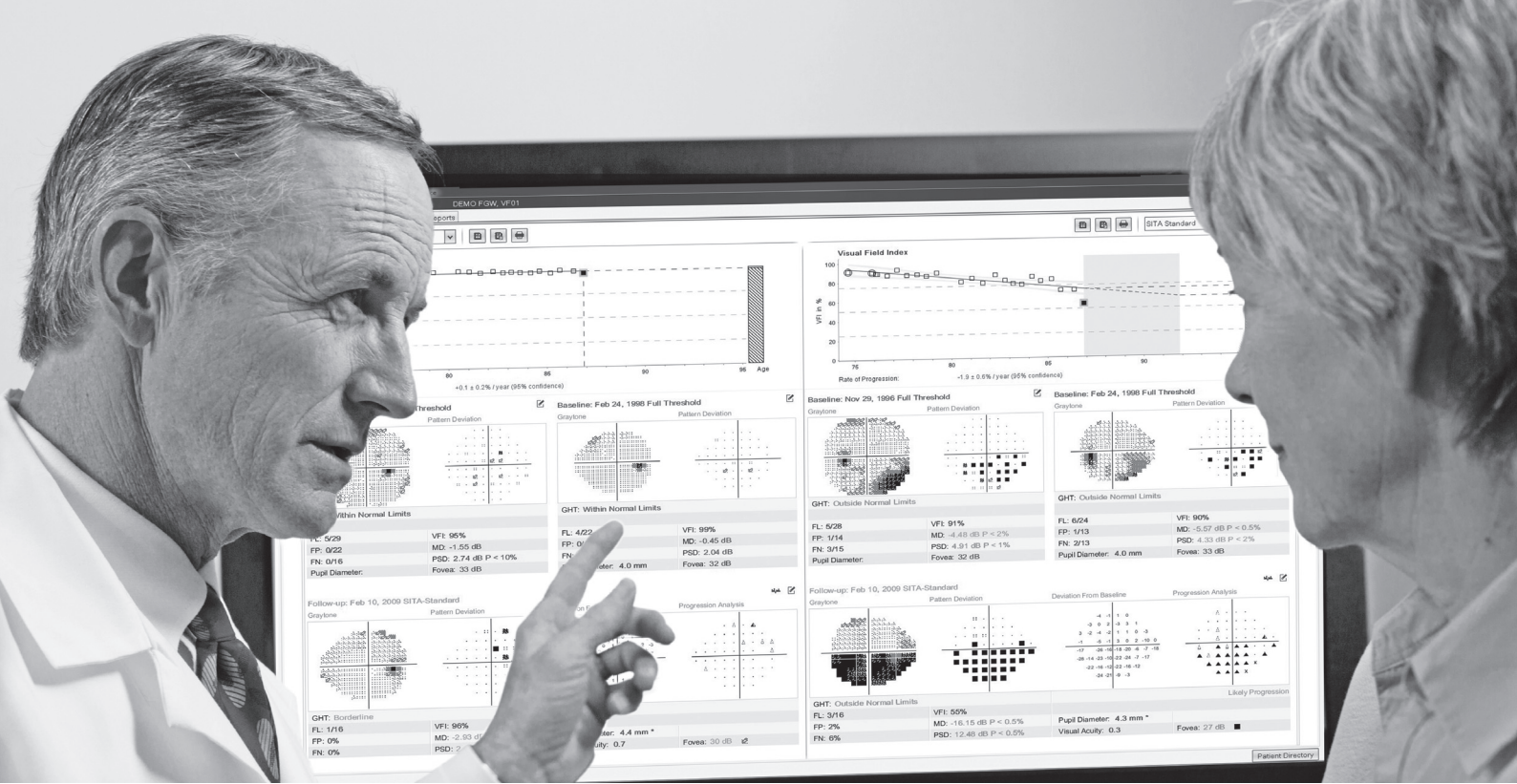
Accelerate clinic flow with equipment that can be learned quickly and operated easily.

Improve confidence in test results with ReLEYE™. Instantly review the patient's eye position, at any stimulus point.

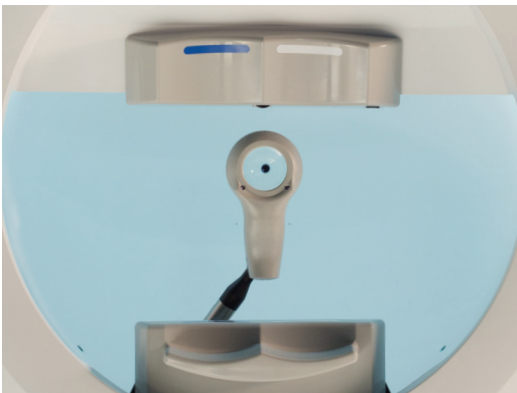
Gain peace of mind with seamless transferability of legacy data from the HFA II and HFA II-i to the HFA3.



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



Faster, easier, more reliable than ever



Liquid Trial Lens

Liquid Lens technology: One lens, less time

The new automatic Liquid Trial Lens reduces patient setup time by automatically loading each patient's refractive correction from the previous exam. The result is faster patient flow and reduced chance of error when selecting a lens during test setup.

SmartTouch interface: Ready, set, test!

The new HFA3 platform gets you up and running with fewer touches. Simply select the patient's name and press start, all using an all-new color graphic user interface.



SmartTouch interface

Exclusive gaze tracking: On track? Know right now

Save time with improved gaze tracking initialization.

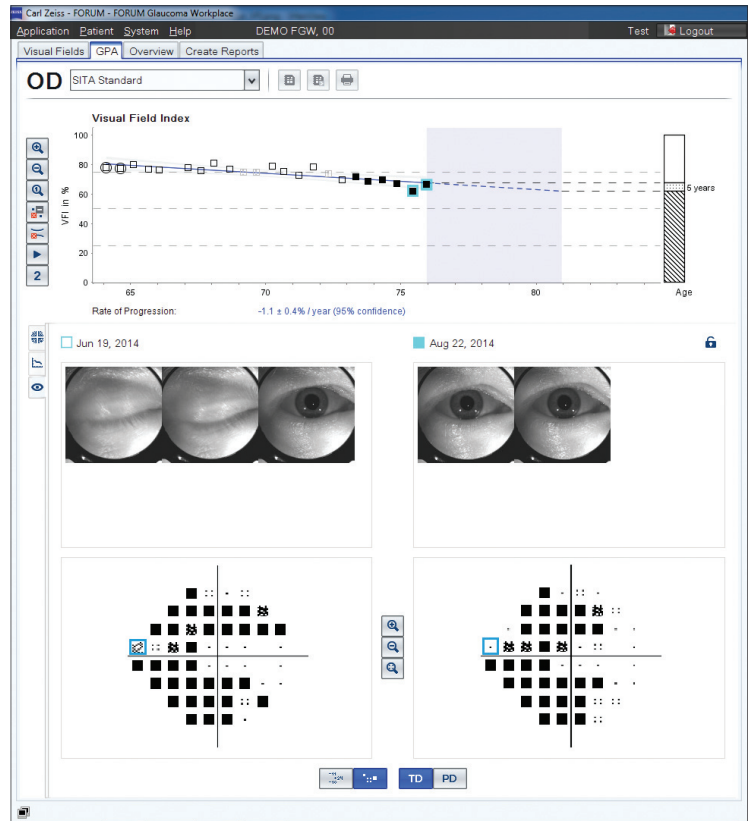
Kinetic Perimetry: Significant advancements

Easy to use kinetic graphical user interface with full 180° testing range.

HFA review with FORUM Glaucoma Workplace from ZEISS

- Review quantitative and qualitative information from all standard HFA analyses, in an easy-to-read format
- Change baselines and capture, track and measure progression simply and easily with Guided Progression Analysis™ (GPA™)
- Use ReIYE to preserve an image of the patient's eye at every stimulus presentation during a SITA™ Standard test
- Assess patient's compliance with ReIYE in both GPA and single-field analysis modes
- Work with either Mean Deviation (MD) or Visual Field Index™ (VFI™)—or both
- Generate HFA reports using a MAC or a PC

HFA review report with ReIYE and GPA



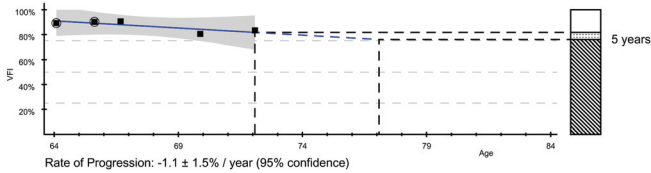
Example of a report using ReIYE



* ReIYE is available on both the instrument and through FORUM Glaucoma Workplace.

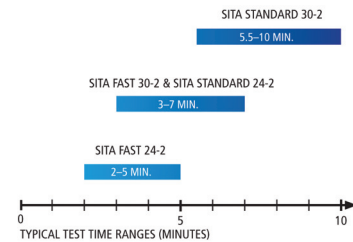
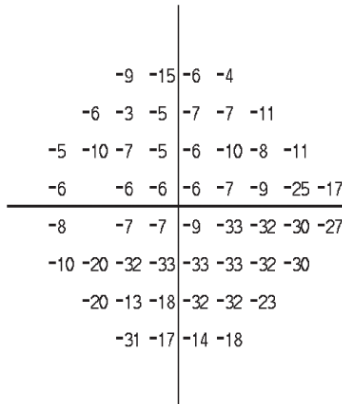
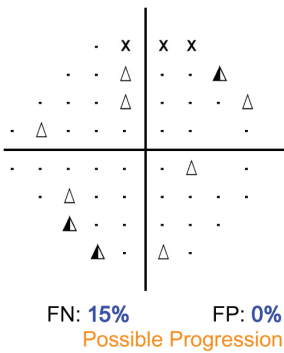
Everything you expect from a Humphrey

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 still delivers the interactive analysis you need, when and where you need it.



Visual Field Index

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



GPA Alert

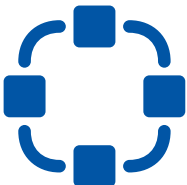
A message in simple language that indicates whether statistically significant deterioration was identified in consecutive visits.

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.



Connectivity

For comprehensive connectivity, HFA3 can be connected to FORUM with FORUM 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

- 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
Test specifications					
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 ²	100 cd/m ²	31.5 ASB	31.5 ASB	31.5 ASB
Threshold test library					
N-30	•	•			
C-20	•				
24-2, 30-2, 10-2, Macula		•	•	•	•
60-4, Nasal step			•	•	•
Threshold test strategies					
MOBS	•	•			
ZEST		•			
SITA Standard, SITA Fast, Full Threshold, FastPac			•	•	•
SITA-SWAP				•	•
Suprathreshold test library					
C40, C76, C80			•	•	•
C64, C-Armaly			•	•	•
C-20	•				
N-30	•	•			
24-2		•			
Peripheral test patterns			•	•	•
Suprathreshold test modes					
Age corrected	•	•	•	•	•
Threshold related, Single intensity			•	•	•
Specialty test library					
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
Fixation control					
Heijl-Krakau blind spot monitor	•	•	•	•	•
Video eye monitor		•	•	•	•
Gaze tracking			•	•	•
Head tracking			•	•	•
Vertex monitoring				•	•
Operator interface					
Display	LCD	LCD	Touch-screen LCD		
Keyboard		•	•	•	•
Stimulus					
Frequency doubling	•	•			
White-on-white			•	•	•
Red- or blue-on-white			•	•	•
Blue-on-yellow (SWAP)				•	•
General testing features					
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				•	•
Test storage					
User-defined		•	•	•	•
Software features					
Single Field Analysis (SFA)			•	•	•
Glaucoma Hemifield Test (GHT)		•	•	•	•
Visual Field Index (VFI)			•	•	•
Guided Progression Analysis (GPA)			•	•	•
Serial field overview		•	•	•	•
Networking		•	•	•	•
FORUM Connectivity		•	•	•	•
DICOM Connectivity		•	•	•	•
Printer					
Thermal printer	•				
Native generic PCL 3, PCL 5 and postscript printer support for local, shared and networked printers		Optional			
Native postscript printer support for network capable printers			Optional	Optional	Optional
Data storage, retrieval and analysis					
Hard drive		250 GB	500 GB	500 GB	500 GB
USB		•	•	•	•
CD-R/W drive		•			
Dimensions					
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)		
Electrical requirements					
	100-120V, 50/60Hz 230V, 50/60Hz	100-240V~, 50/60Hz, 200VA max	100-120V~, 50/60Hz, 4.0A 230V~, 50/60Hz, 1.8A		
Standards					
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 reliability and efficiency.

Certainty for years with the ZEISS Glaucoma Suite


A broad range of innovative diagnostic and imaging solutions are transforming your point of care. Today, your **ZEISS Glaucoma Suite** delivers a ZEISS solution that can either stand alone or seamlessly integrate into a comprehensive all-practice solution through FORUM that puts 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.

 0297 **Humphrey Field Analyzer**

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