



Humphrey Matrix 800

Proven early visual field loss detection with connectivity



We make it visible.



//CONFIDENCE
MADE BY CARL ZEISS

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.^{1, 2, 3, 4}

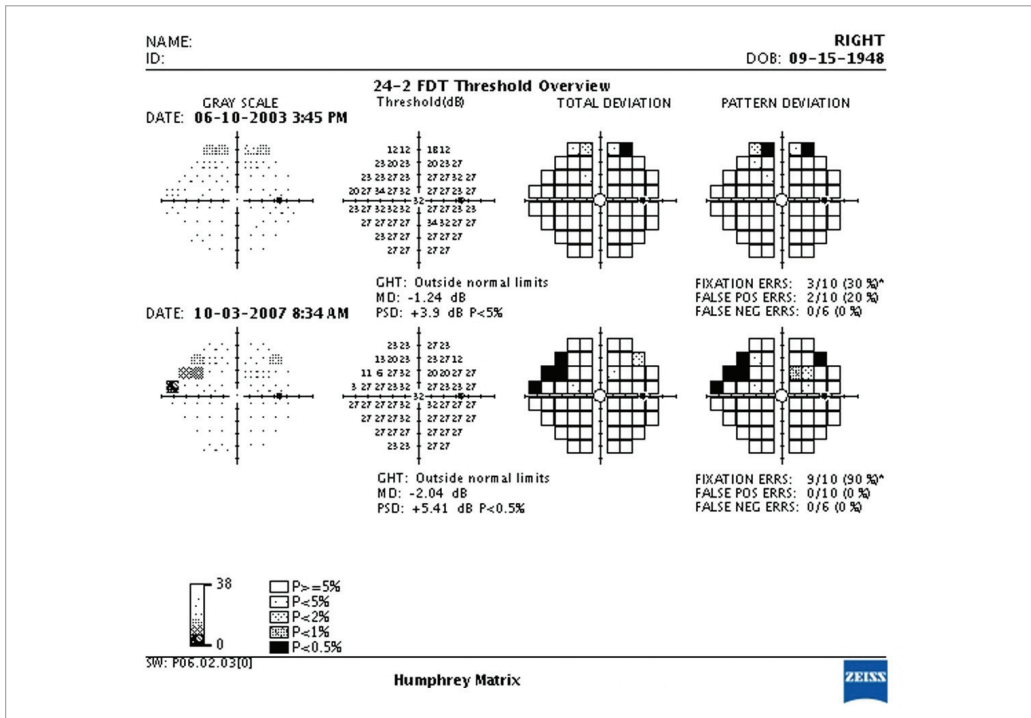


Validated clinical performance

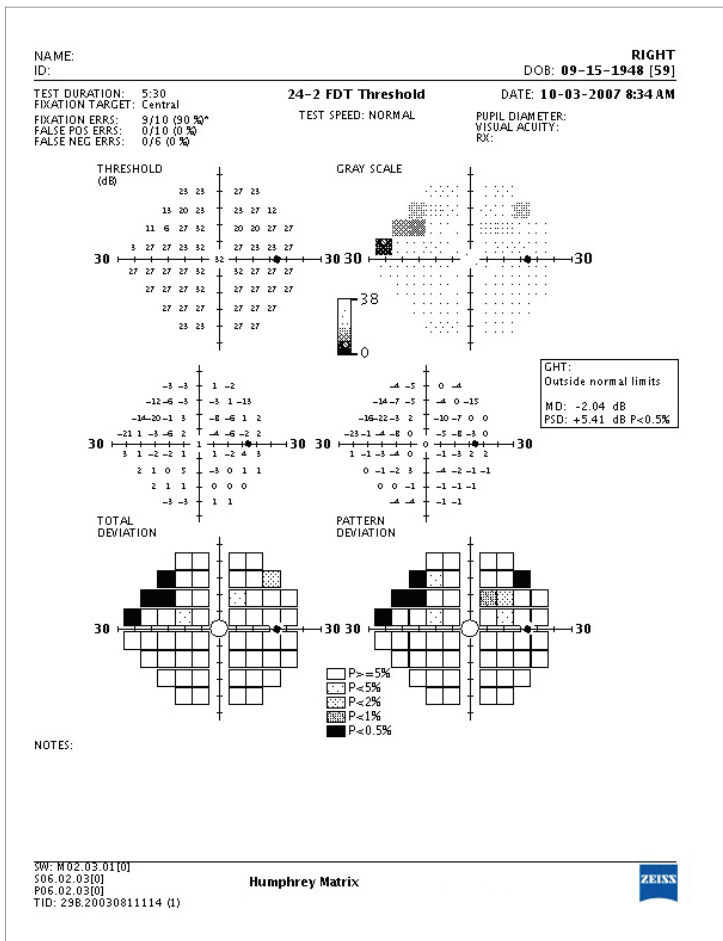
- Proven diagnostic performance in detecting early visual field loss^{5,6}
- 15% faster threshold testing on average and up to 70% faster for more advanced cases⁷
- Video eye monitoring and comfortable chin rest simplify patient alignment and fixation monitoring
- Patient-friendly stimulus eliminates the need for trial lens correction in most patients⁸

Designed for your practice

- Humphrey® Field Analyzer (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® Eye Care Data Management System



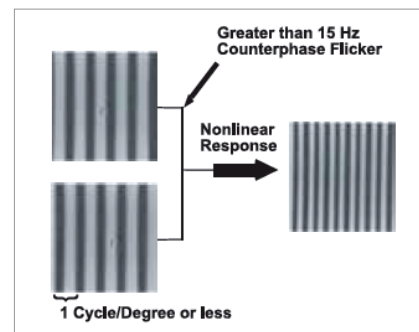
Serial Field Overview



Single Field Analysis

Patented Frequency Doubling Technology

The Humphrey Matrix frequency doubling stimulus can preferentially test for sensitivity loss in the magnocellular pathways of the visual system.⁹ 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.^{10,11}

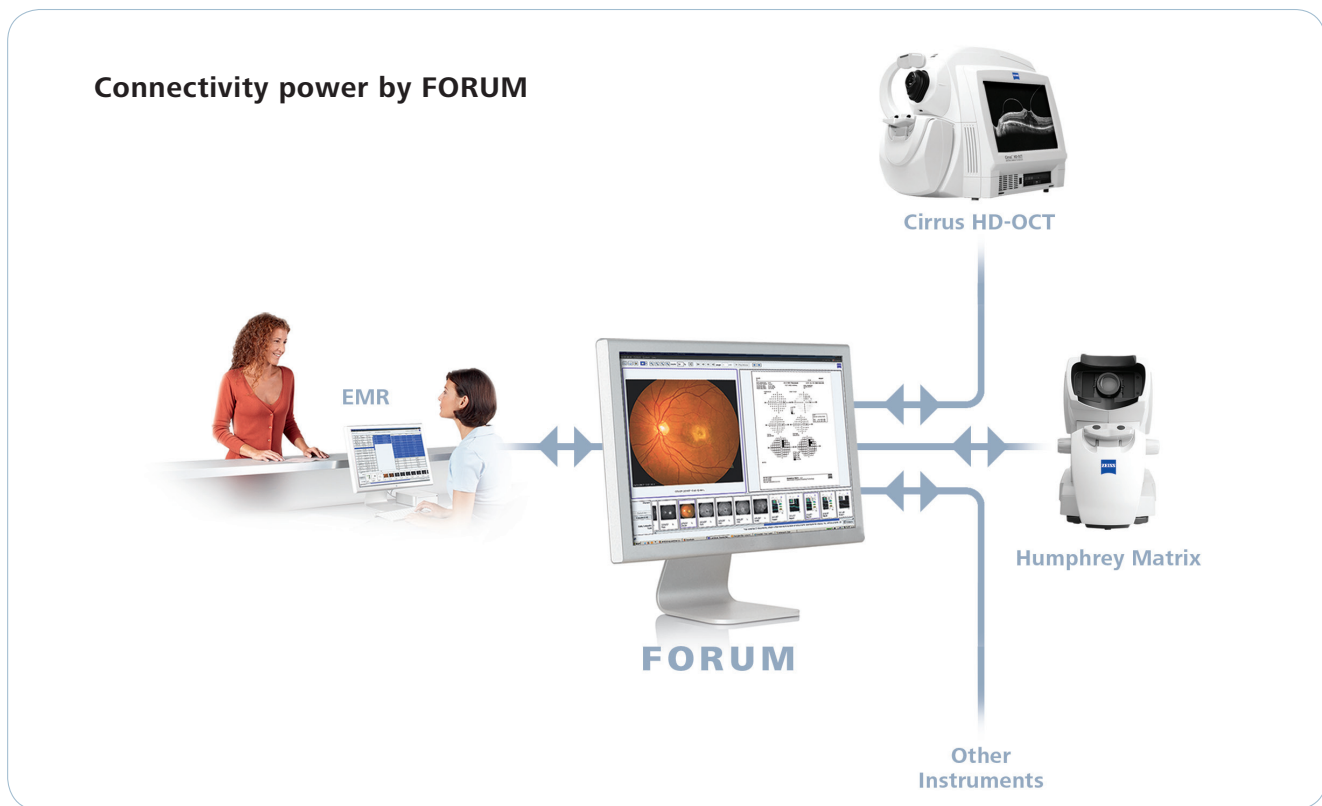


Frequency Doubling Stimulus

Connecting the way you need

Connectivity solutions to fit your practice

The Humphrey Matrix offers a choice of connectivity solutions – to office networks, to EMRs and to FORUM, the comprehensive data management system from Carl Zeiss Meditec.



Connectivity powered by FORUM

For comprehensive connectivity, FORUM Eye Care Data Management integrates the Humphrey Matrix 800 and all of your ZEISS instruments, as well as any DICOM device using the medical standard data protocol. FORUM can also connect to networked devices without DICOM – giving you virtually instantaneous access to the comprehensive patient information you need, whenever and wherever you need it.



Centralized report management and retrieval
 FORUM allows you to access your glaucoma patient data instantly through centralized report management and retrieval. FORUM also provides simultaneous display of reports from multiple instruments, such as the Humphrey Matrix, HFA™, Cirrus™ HD-OCT, GDx™ and fundus cameras.

EMR integration with FORUM

Connectivity to an EMR through FORUM delivers significant practice efficiency and offers closed-loop workflow helping to eliminate patient data errors. Patient demographics originate in the lead system, often the EMR, and are pulled in

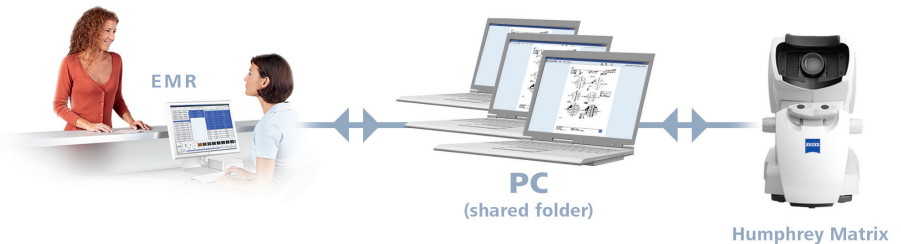
to instruments connected to the EMR, through FORUM, in a standardized format using the FORUM Modality Worklist feature.

For legacy patient records, FORUM offers FORUM ASSIST Match, a quick and simple way to find and merge multiple patient records using a variety of match criteria.

With or without an EMR, FORUM offers immediate efficiencies in patient record management. For a practice planning a future EMR purchase, FORUM can ease the transition to a paperless electronic workflow.

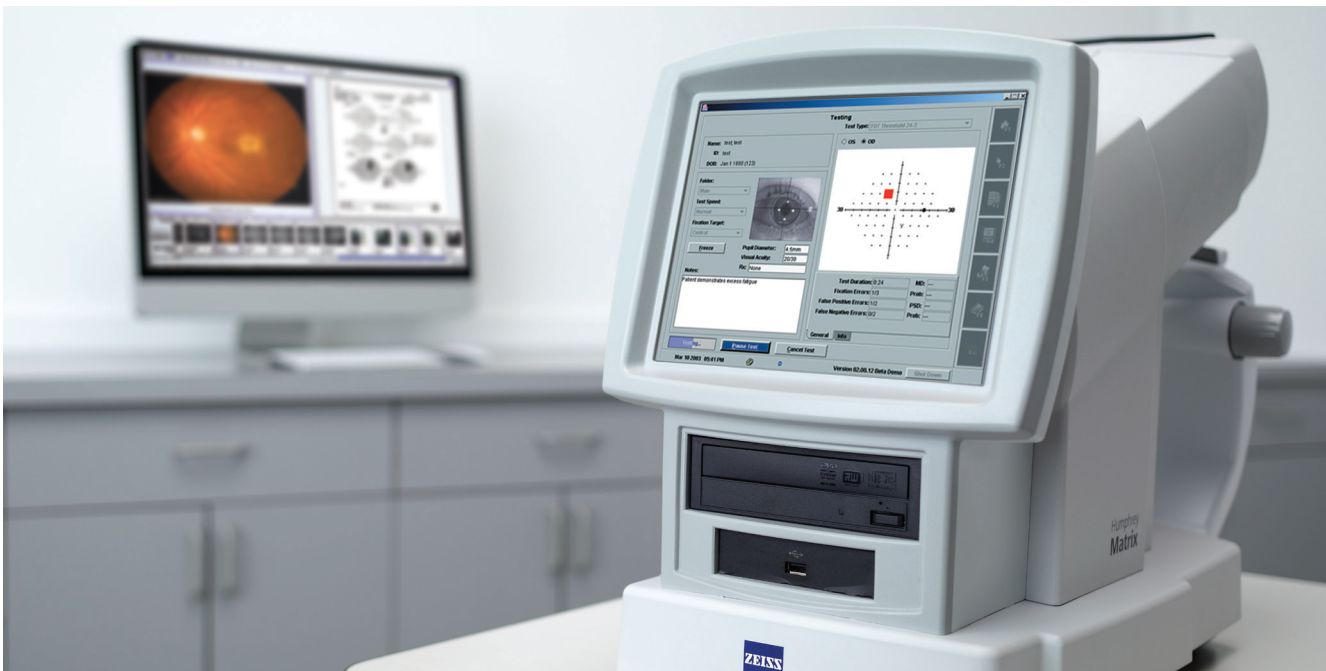
Basic Networking

You can export jpg or pdf files via the USB port, or over the network, and save to shared folders on a PC for transferring data to EMRs.



Compare the Humphrey Matrix 800 to the Humphrey Matrix 715

Feature	Humphrey Matrix 800 Visual Field Analyzer with Frequency Doubling Technology	Humphrey Matrix 715 with Software 7.0 Visual Field Analyzer with Frequency Doubling Technology
Connectivity options	<ul style="list-style-type: none"> ▪ DICOM-compliant connectivity for: <ul style="list-style-type: none"> - Patient scheduling FORUM Modality Worklist - Archive of exam reports (EPDF) ▪ Ethernet connectivity for data storage onto shared folders ▪ Serial port data output to OfficeMate®/ExamWRITER® (USA) 	Serial port data output to OfficeMate®/ExamWRITER® (USA)
Adjustable chin rest	Included with the purchase of every new instrument	Available separately
Portable data storage	<ul style="list-style-type: none"> ▪ USB ▪ DVD/CD-R/W drive 	<ul style="list-style-type: none"> ▪ Floppy ▪ CD-ROM
Printer	Ships standard with instrument	Ships standard with instrument
Additional Printer Options	Native generic PCL 3, PCL 5 and postscript printer support for local, shared or networked printers	Limited to approved printers
DICOM data output	Yes	No



Technical Data

Humphrey Matrix 800

Stimulus	Frequency doubled sinusoidal gratings	
Fixation Control	Video eye monitoring Heijl-Krakau fixation method Alternative fixation targets	
Area of Field Tested	Threshold - 30 degrees and macula Screening - 30 degrees	
Test Library	Threshold	Screening
	24-2 FDT Full Threshold	N-30 FDT Supra-threshold
	30-2 FDT Full Threshold	24-2 FDT Supra-threshold
	N-30 FDT Full Threshold	
	10-2 FDT Full Threshold	
	Macula FDT Full Threshold	
Test Strategies	MOBS and ZEST	
Analysis Software*	Glaucoma Hemifield Test (GHT)	
Printer (included)	External USB color inkjet printer	
Data Storage, Retrieval and Analysis	DVD/CD-RW drive, RS-232 interface for PC-compatible data transfer, USB and Ethernet	
Dimensions	Overall	Chinrest
	Height: 17" (43 cm)	Height: 11" (28 cm)
	Width: 12" (30 cm)	Width: 12.2" (31 cm)
	Depth: 22" (56 cm)	Depth: 33.5" (85 cm)
	Weight: 30 lbs. (14 kg)	Weight: 7.5 lbs. (3.4 kg)
Electrical	100-240 V, ~ 50/60 Hz, 200 VA max IEC-320 standard power inlet connector for worldwide use Compiles with US, EU and Canadian medical electrical system standards	

*Analysis software not available on N-30 tests.

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- Within ± 3 diopters.
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