

Humphrey Matrix  
Proven to find early visual field loss.  
Quickly. Easily.



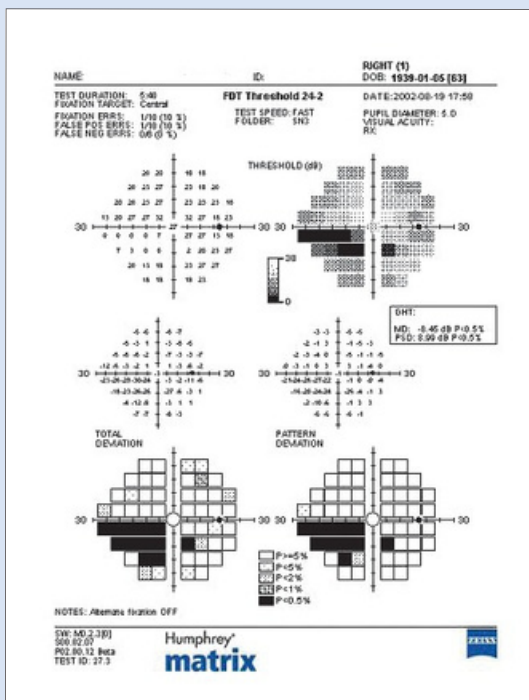
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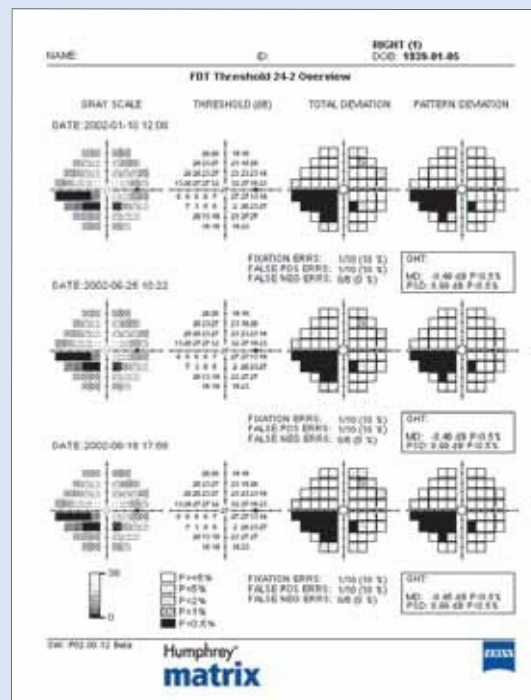
# Humphrey Matrix

Operating a visual field instrument doesn't get much easier than a Humphrey Matrix.<sup>®</sup> It provides the ideal solution for busy practices seeking a single perimeter for case detection and fast threshold testing when streamlined assessment is an option. 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 Its patented stimulus, space-saving user-friendly design and validated clinical performance all make the Humphrey Matrix an ideal solution for many practices.

- Proven diagnostic performance in detecting early visual field loss. 5, 6
- Reliable FDT suprathreshold testing and quick threshold testing for high patient throughput.
- 15% faster threshold testing on average and up to 70% faster for more advanced cases. 7
- Video eye monitoring simplifies patient alignment and fixation monitoring.
- Large patient-friendly stimuli eliminate the need for trial lens correction in most patients.
- Simple operation allows less experienced staff members to operate.



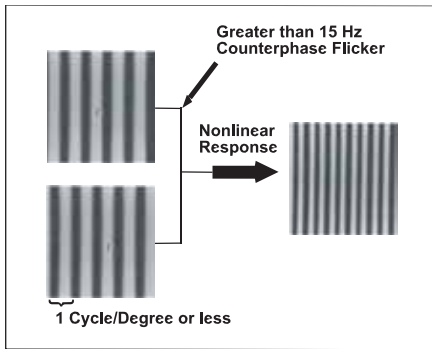
Single Field Analysis



Serial Field Overview

## Frequency Doubling Technology

Matrix Frequency Doubling stimuli have been reported to preferentially test for sensitivity losses in the magnocellular pathways of the visual system.<sup>8</sup> Alternating black and white bars create a patient-friendly frequency doubling illusion. Recent studies demonstrate that while all ganglion cell types are affected by glaucoma, and no one particular test always identifies functional effects of glaucoma first, the Humphrey Matrix has proven high sensitivity and may find defects earlier in a unique subset of patients.<sup>9, 10</sup>



Frequency Doubling Stimulus



### Easy on your patients

- Rapid suprathreshold testing in as little as 40 seconds per eye.
- Patient-friendly design promotes patient compliance and improved diagnostic confidence.
- Unique design eliminates the need for an eye patch.

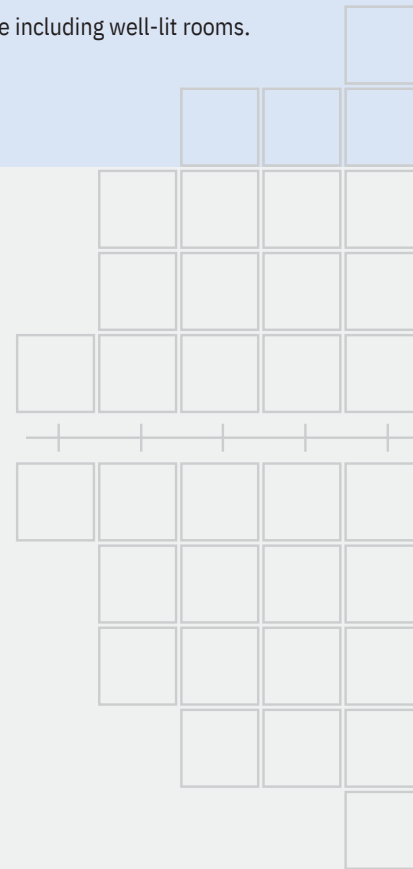
### Easy on your practice

- Minimal training required – suitable for any staff member.
- No trial lenses required.<sup>11</sup>
- Compact design fits anywhere in your practice and allows use in multiple offices.
- Familiar format HFA-like reports are easy to interpret.
- Operates anywhere including well-lit rooms.



Humphrey Matrix

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# Humphrey Matrix

Technical Specifications	
<b>Stimulus</b>	Frequency doubled sinusoidal gratings
<b>Fixation Control</b>	Video eye monitoring
	Heijl-Krakau fixation method
	Alternative fixation targets
<b>Area of Field Tested</b>	Threshold – 30 degrees and macula
	Screening – 30 degrees
<b>Test Library</b>	Threshold
	• 24-2 FDT Full Threshold
	• 30-2 FDT Full Threshold
	• N-30 FDT Full Threshold
	• 10-2 FDT Full Threshold
	• Macula FDT Full Threshold
	Screening
• N-30 FDT Supra-threshold	
• 24-2 FDT Supra-threshold	

Technical Specifications	
<b>Test Strategies</b>	MOBS and ZEST
<b>Analysis Software*</b>	Glaucoma Hemifield Test (GHT)
<b>Printer (included)</b>	Full-page color inkjet
<b>Data Storage, Retrieval and Analysis</b>	40 GB hard drive, floppy drive, CD-R/W drive, RS-232 interface for PC-compatible data transfer
<b>Dimensions</b>	Height: 17" (43.2 cm)
	Width: 11" (27.9 cm)
	Depth: 24" (60.9 cm)
	Weight: ~35 lbs. (16 kg)
<b>Electrical</b>	100-240 V, 50/60 Hz, 300W max.
	IEC-320 standard power inlet connector for worldwide use
	Meets standards UL, CSA, CE

\* Analysis software not available on N-30 tests.

## Selected References

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- Within  $\pm$  3 diopters.

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