



Technical Specifications

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 Strategies:	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
Analysis Software*:	Glaucoma Hemifield Test (GHT)
Printer (included):	Full-page color inkjet
Data Storage, Retrieval and Analysis:	20 GB hard drive, floppy drive, CD-R/W drive, RS-232 interface for PC-compatible data transfer
Dimensions:	Height: 17" (43.2 cm) Width: 11" (27.9 cm) Depth: 24" (60.9 cm) Weight: ~35 lbs. (16 kg)
Electrical:	100-240 V, 50/60 Hz, 300W max. IEC-320 standard power inlet connector for worldwide use

* Analysis software not available on N-30 tests.

HUMPHREY® MATRIX

Frequency doubling technology for early detection and long-term management.

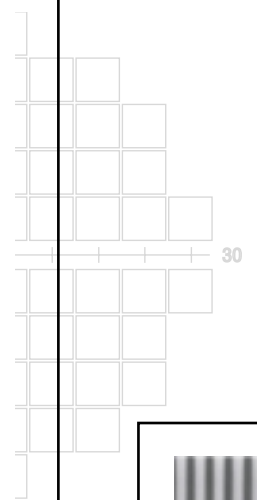


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with **WelchAllyn**
FREQUENCY DOUBLING TECHNOLOGY





Early detection is just the beginning of better glaucoma management.

The Humphrey® Matrix.

The Humphrey Matrix represents the latest breakthrough in visual field testing. Combining the capability to detect glaucoma early and accurately with tools for long-term management, the Humphrey Matrix enables you to manage your glaucoma patients for life.

Frequency Doubling Technology.

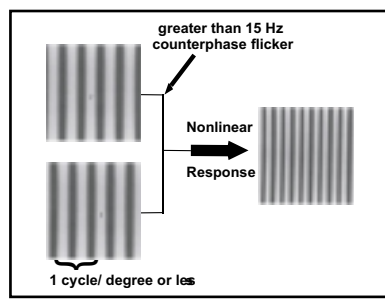
Welch Allyn's patented frequency doubling technology targets a subset of retinal ganglion cells in the magnocellular (M-cell) pathway. Patterns of flickering black and white bars trigger a reaction in these cells, creating the perception that twice the number of bars are actually present, hence "frequency doubling." M_y ganglion cells are sparsely populated, resulting in less redundancy to mask any cell damage. By attempting to isolate these cells, the Humphrey Matrix detects glaucomatous damage early in the disease process.

Since its introduction, over 8,000 clinicians have chosen frequency doubling technology to quickly and accurately detect the early stages of visual field loss associated with glaucoma and other eye diseases.

The benefits you expect from Frequency Doubling Technology.

- Easy on your patients
 - Rapid screening and full threshold results
 - Frequency doubling stimuli reduce patient anxiety during testing
 - No eye patch is necessary
- Easy on your practice
 - Minimal training required – suitable for any staff member
 - No trial lenses required*
 - Test in ambient light – no separate room required

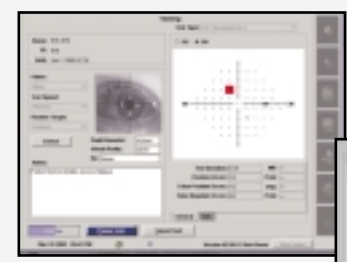
* Within ± 3 diopters



Frequency Doubling Stimulus



Humphrey Matrix



Test in Progress



Test Results View

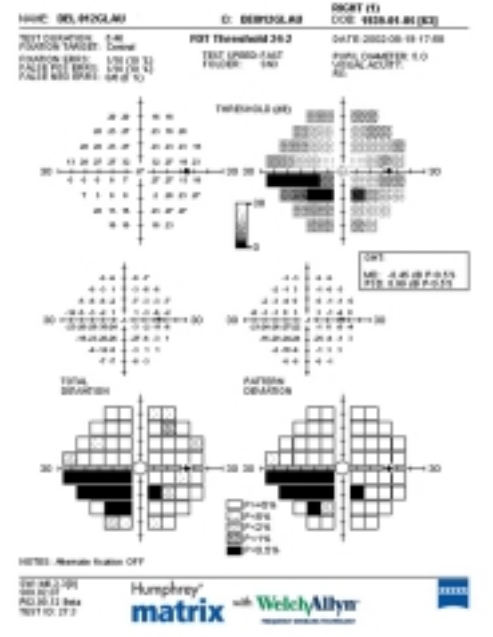
Now with expanded glaucoma management tools.

- Sixty-nine stimuli fully characterize visual field defects
- Enhanced patient management software
- Serial field overview and glaucoma hemifield tests
- Comprehensive threshold and screening test strategies
 - Threshold Test Strategies
 - 24-2, 30-2 FDT Full Threshold
 - N-30 FDT Full Threshold
 - 10-2 and Macula FDT Full Threshold
 - Screening Test Strategies
 - N-30 FDT Supra-threshold
 - 24-2 FDT Supra-threshold
- Video eye monitoring for easy alignment and fixation control
- Enhanced optics achieve 30 degree FOV
- 10.4" LCD color display for viewing test results on-screen

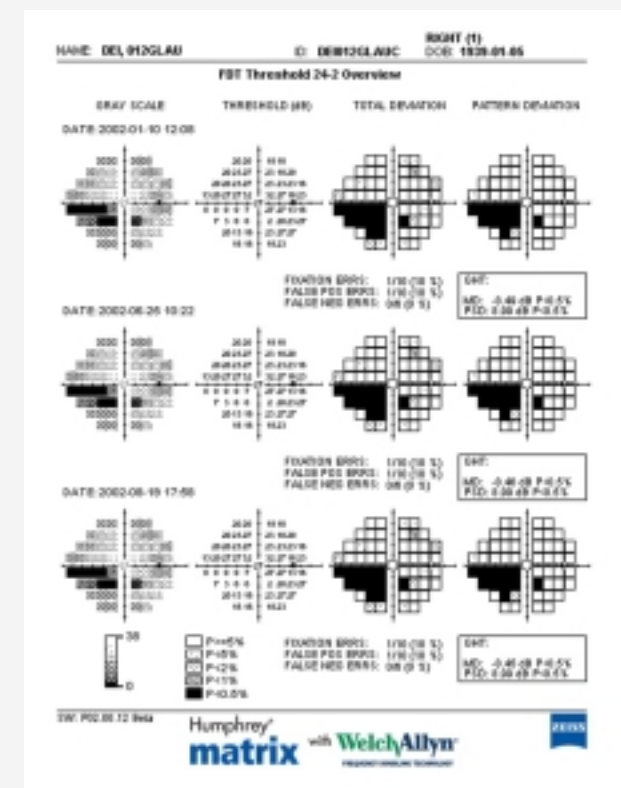
The Humphrey Matrix represents the latest advancement in clinically validated glaucoma management. This instrument will further enhance your ability to conduct a thorough visual field evaluation and assess treatment alternatives.

For the long-term care of your patients.

The Humphrey Matrix allows you to store, retrieve and analyze patient test data so you can provide complete care from initial diagnosis to long-term management.



24-2 FDT Full Threshold Test Result



Serial Field Overview

