

# VIRTUAL EYE

## TECNOLOGIA DINAMICA Y AVANZADA

Examen de campo visual sin las restricciones ni molestias de la perimetria automatizada convencional



## Fácil de integrar en la práctica clínica

**Nuestro equipo Virtual Eye puede ayudar a incrementar la eficiencia en la práctica diaria:**

- ✓ Varias modalidades de examen, reportes confiables, y reproducibles comparados a la perimetría automatizada convencional
- ✓ Instrucciones de audio que reemplazan la necesidad de monitoreo
- ✓ Portátil, examen confortable en cualquier lugar



### CIFRADO DE 256 BITS

Los estudios del paciente están asegurados bajo las normas de HIPAA & BAA.



### BASE EN LA NUBE

Hacer y revisar exámenes, en cualquier lugar con cualquier equipo, con conexión Wi-Fi.



### REPORTES

Los exámenes pueden imprimirse, descargarse y guardarse en su Sistema Electrónico de Historias.



### LIMPIEZA FÁCIL

La base frontal de semicuerdo puede ser rápidamente desinfectada entre pacientes.



### **En los estudios clínicos, nuestro equipo de Virtual Eye:**

- ✔ Mostró una sensibilidad comparable a la perimetría automatizada ( $p < 0.0001$ ) para una evaluación confiable del campo visual<sup>1</sup>
- ✔ Examen 26% más corto en promedio comparado a la perimetría tradicional<sup>3</sup>
- ✔ Evaluación confiable acorde a la perimetría standard en la función del párpado con ptosis<sup>4</sup>

**Base normativa de más de 450 pacientes  
recolectados en el Bascom Palmer**

# Comparación 1

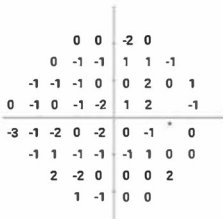
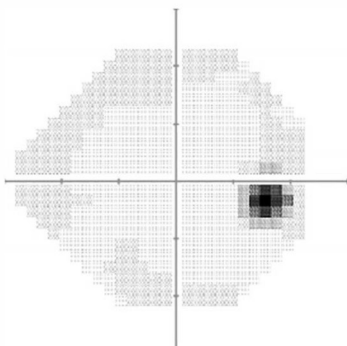
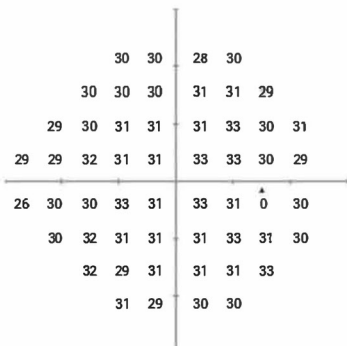
## Perimetría Standard 24-2

### entre VRVF y HFA

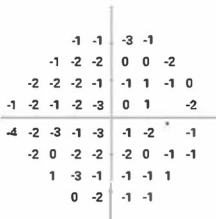
Fixation Target: Central Point  
 Fixation Losses: 1 / 12  
 False Positive Errors: 0%  
 False Negative Errors: 2%  
 Test Duration: 04:37  
 Foveal Threshold: 33

Stimulus: III. Isabelline  
 Background: Black  
 Strategy: Standard  
 Pattern: 24-2

Date: 08/15/2021  
 Time: 7:51 PM  
 Age: 61

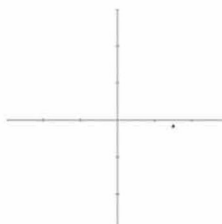
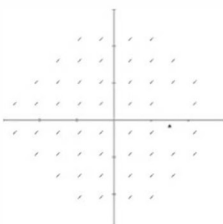


Total Deviation



Pattern Deviation

VF: 100%  
 MD: -0.41 dB  
 PSD: 0.88 dB



- P < 5 %
- P < 2 %
- P < 1 %
- P < 0.5 %

# Comparación 1

## Perimetría Standard 24-2

### entre VRVF y HFA

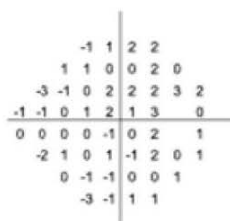
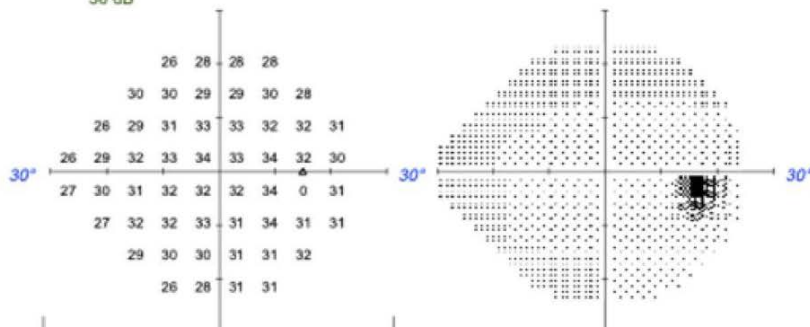
OD Single Field Analysis

Central 24-2 Threshold Test

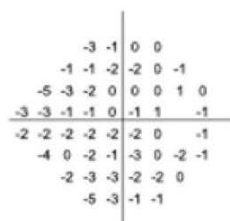
Fixation Monitor: Gaze/Blind Spot  
 Fixation Target: Central  
 Fixation Losses: 0/13  
 False POS Errors: 0%  
 False NEG Errors: 0%  
 Test Duration: 03:17  
 Fovea: 36 dB

Stimulus: III, White  
 Background: 31.5 asb  
 Strategy: SITA Fast  
 Pupil Diameter:  
 Visual Acuity: Rx: +3.00 DS

Date: Aug 15, 2021  
 Time: 4:23 PM  
 Age: 61



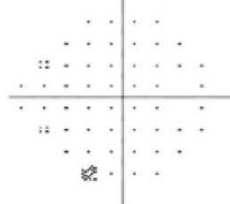
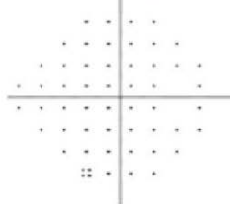
Total Deviation



Pattern Deviation

GHT: Within Normal Limits

VF124-2: 100%  
 MD24-2: 0.33 dB  
 PSD24-2: 1.34 dB



:: P < 5%  
 ☒ P < 2%  
 ■ P < 1%  
 ■ P < 0.5%



Comments

Signature



# Comparación 2

## Despistaje Convencional entre VRVF y FDT

Right Single Field Analysis

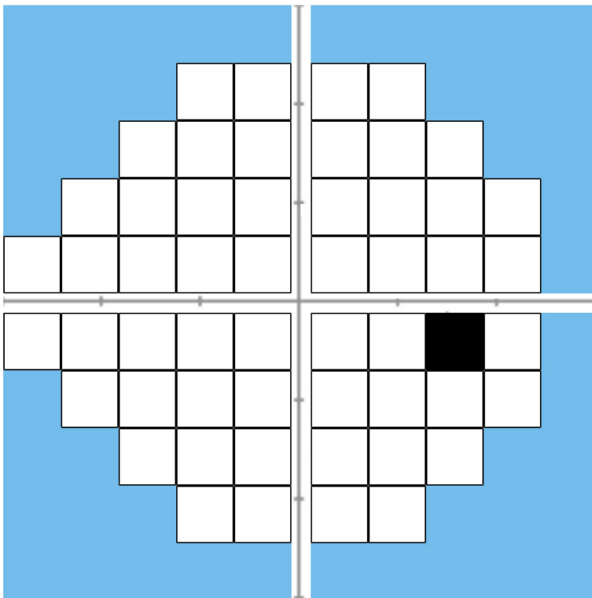
24-2 Screening

24-2 Screening

Strategy: Screening  
Fixation Target: Central Point  
Questions Asked: 54  
Exam Duration: 00:51  
Fixation Losses: 0 / 3

Pattern: 24-2  
Stimulus Size: III  
Colors: White on Black  
False Positives: 0 / 2  
False Negatives: 0 / 2

Eye: Right (OD)  
DOB: 2000-06-05  
ID:  
Date: 06/10/2022  
Time: 3:34 PM CUT



- WITHIN NORMAL LIMITS
- MILD RELATIVE LOSS
- MODERATE RELATIVE LOSS
- SEVERE LOSS

Seen: 53 / 54

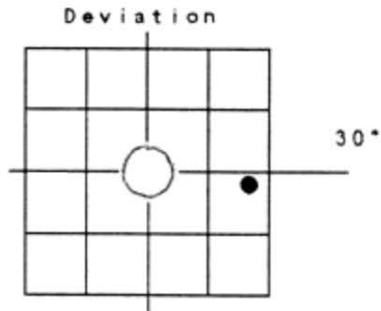
Missed: 1 / 54

# Comparación 2

## Despistaje Convencional entre VRVF y FDT

RIGHT EYE

Test Duration: 00:41 min



FIXATION ERRS: 1 / 3  
FALSE POS ERRS: 0 / 3

Probability Symbols

	P $\geq$ 5%
	P < 5%
	P < 2%
	P < 1%





# Comparación 3

## Estudio 64 Superior para Ptois entre VRVF y HFA

Left Single Field Analysis

Superior-64 Screening

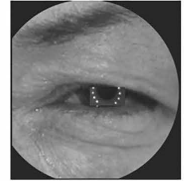
Superior-64 Screening

Strategy: Screening  
Fixation Target: Inferior Set  
Questions Asked: 64  
Exam Duration: 03:27  
Fixation Losses: -

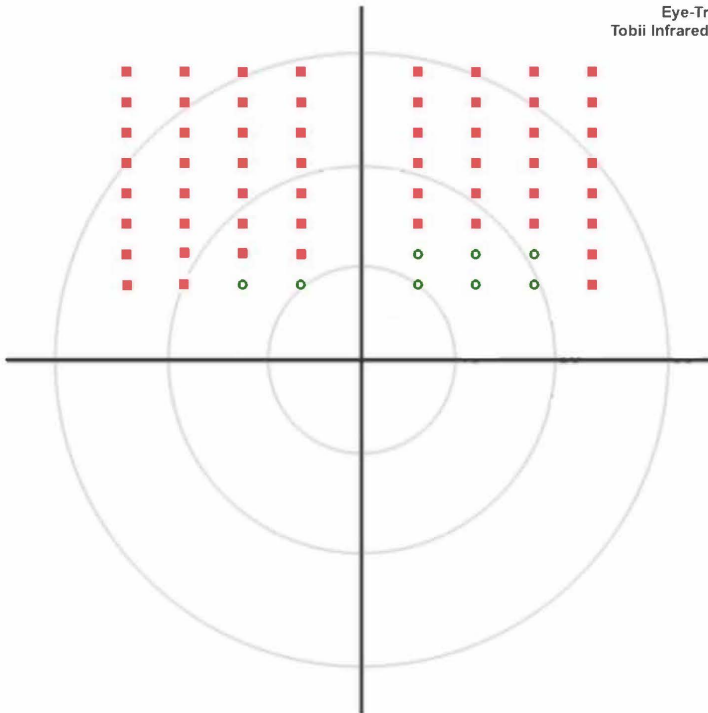
Pattern: Superior-64  
Stimulus Size: III  
Colors: White on Black  
False Positives: -  
False Negatives: -

DOB:  
ID: -  
Date: 03/30/2022  
Time: 4:24 PM

Eye: OS



Eye-Tracking  
Tobii Infrared Photography



○ - Seen: 8 / 64

■ - Missed: 56 / 64



# Comparación 3

## Estudio 64 Superior para Ptois entre VRVF y HFA

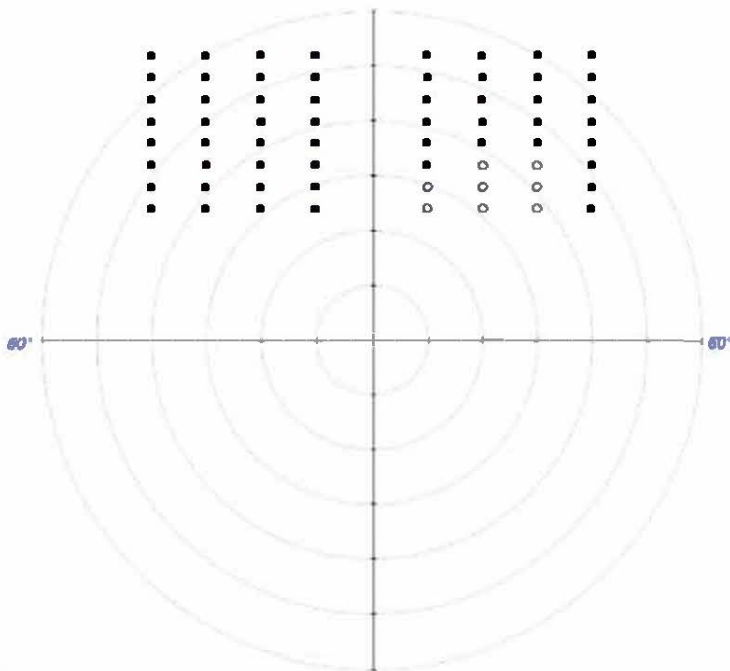
OS Suprathreshold

Superior 64 Point Suprathreshold Test

Fixation Monitor: Off  
 Fixation Target: Badrien LED  
 Fixation Losses: 0/1  
 False POS Errors: 0/9  
 False NEG Errors: 3/9 XX  
 Test Duration: 04:55  
 Stimulus Intensity: 10dB

Stimulus: Ill, White  
 Background: 31.5 asb  
 Strategy: Two Zone  
 Test Mode: Single Intensity  
 Pupil Diameter:  
 Visual Acuity:  
 Rx: +3.00 DS

Date: Mar 30, 2021  
 Time: 3:30 PM  
 Age: 58



- Seen 8/64
- Not Seen 56/64
- ▲ Blind Spot

Name: \_\_\_\_\_

Signature: \_\_\_\_\_



## Dos Modelos: Elite - Pro

	Elite	Elite S	Pro
5-2	✓	✓	✓
10-2	✓	✓	✓
24-2	✓	✓	✓
24-2 C	✓	✓	✓
30-2	✓	✓	✓
Superior 36	✓	✓	✓
Superior 64	✓	✓	✓
Perimetria Perierica 120	✓	✓	✓
Esterman	✓	✓	✓
Screening	✓	✓	✓
Umbral foveal	✓	✓	✓
Tamaño del estímulo III-V-VI	✓	✓	✓
Vision de Colores	✓	✓	✓
Seguimiento Ocular (Tobii)			✓
Fotos externas			✓
Live Eye Streaming			✓

## Duracion del Examen

Screening (Despistaje)	1 min c/ojo
24-2 Full	8-9min c/ojo
24-2 Standard	5-6min c/ojo
24-2 Fast	3-4min c/ojo

## Virtual Eye Elite - Paleta de Colores



negro



azul marino



gris



lila



azul



uranio



verde



aquamarina

## Virtual Eye Elite S y Pro - Paleta de Colores



negro



azul marino



gris



lila



azul



uranio



verde



aquamarina



**El Virtual Eye Elite y el Virtual Eye Pro son equipos de  
perimetría utilizados en la realización acertada de campos  
visuales así como el estado funcional del ojo en la práctica  
clínica diaria**

1. Munshi H, Da Silva K, Savatovsky E, Bitrian E, Grajewski AL. Preliminary Retrospective Validation of a Novel Virtual Reality Visual Field Standard Testing Algorithm, as Compared to Standard Automated Perimetry. Ophthalmology. - Submitted.
2. Patel A, Lee W, Munshi H, Chang TCP, Grajewski A, Tse D, Tse B. Comparison of Virtual Reality Device vs. Standard Automated Perimetry in the Assessment of Superior Visual Field Prior to Functional Upper Eyelid Surgery. ARVO Annual Meeting, Denver, CO. May 1st - 4th, 2022.
3. McLaughlin D, Munshi H, Grossman A, Grajewski AL. Value-Cost Analysis and Comparison: Standard Automated Perimetry vs. Head-Mounted Perimetry. 32nd AGS Annual Meeting, Nashville, TN. March 3-6, 2022.
4. Patel A, Lee W, Munshi H, Chang TCP, Grajewski A, Tse D, Tse B. Comparison of Virtual Reality Device vs. Standard Automated Perimetry in the Assessment of Superior Visual Field Prior to Functional Upper Eyelid Surgery. ARVO Annual Meeting, Denver, CO. May 1st - 4th, 2022.

For more information, visit our website:



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