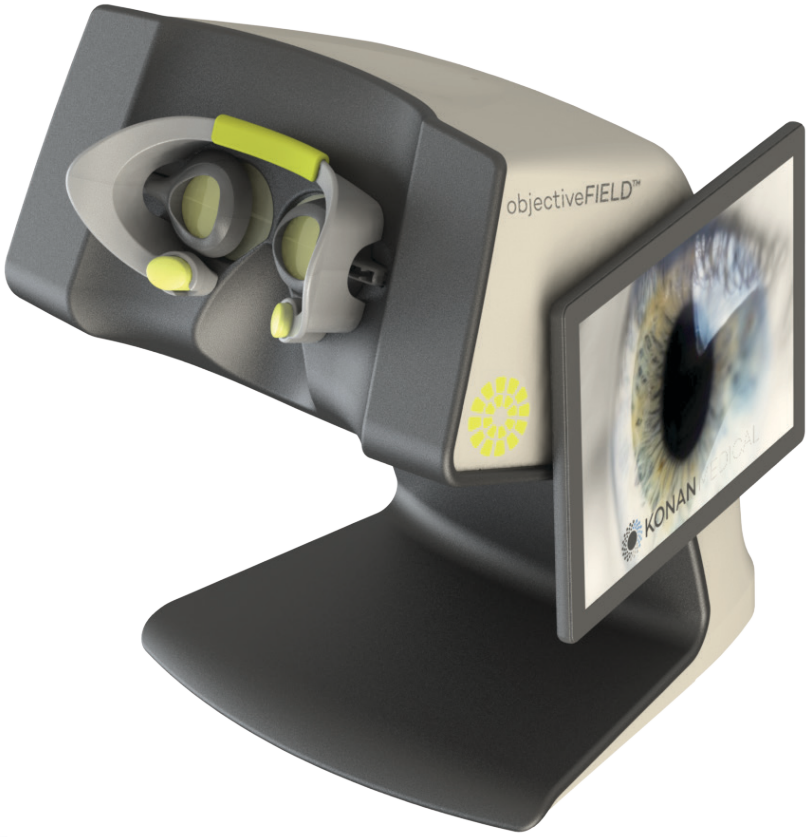
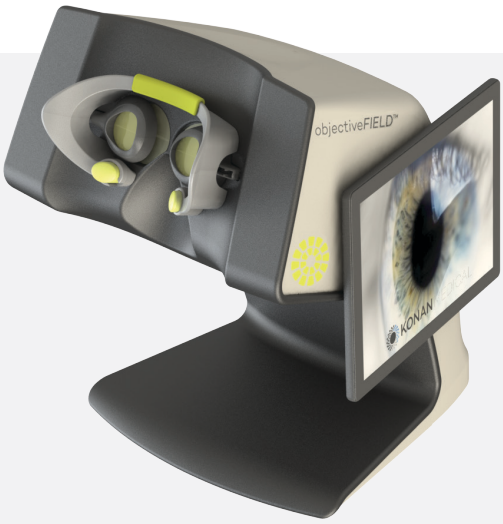
objectiveFIELD™

Objective Perimetry



KONAN MEDICAL

Visual Function Diagnostics



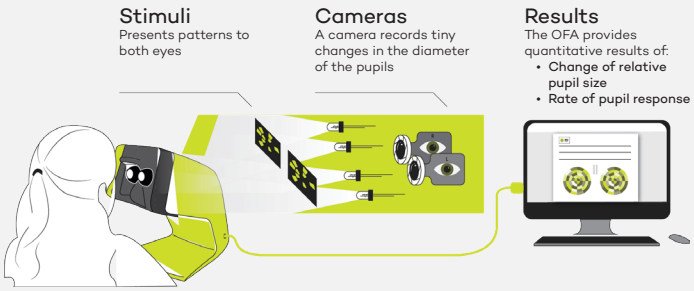
THE NEXT GENERATION PERIMETER

Objective Visual Field Testing

objectiveFIELD™

The objectiveFIELD analyzer (OFA™) is a first-in-class, objective automated perimeter used to aid in measurement of visual field abnormalities.

It is an objective device that combines a novel presentation of patented[1] stimuli with computerized pupil monitoring to measure the visual field map of a patient, without requiring the patient to press a response button.



How Does it Work?

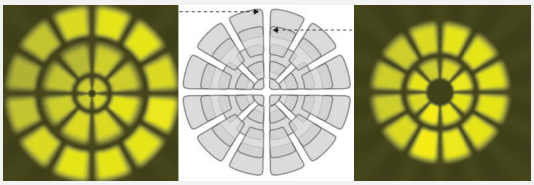
The diverse nerve supply to the pupils enables reporting on the activity of a large portion of the retina, optic nerve, and various parts of the visual thalamus and cortex.

OFA presents a series of multi-focal visual stimuli to both eyes, individually, to stimulate the visual field and monitors involuntary responses in both pupils independently and concurrently.

Direct and consensual responses from each pupil are measured, providing information on both sensitivity and delay of the pupil responses.

The OFA device can uniquely be used in normal office lighting.

Novel Design: Stimuli & Background

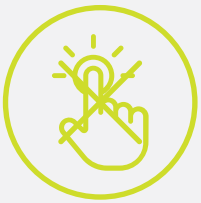


OFA's patented[1] stimuli and background display the product of more than a decade of research and are designed for objective perimetry. The stimuli edges exhibit a Gaussian-like blur and are tolerant of refractive errors.

Furthermore, the stimuli color contains no blue content to reduce the absorptive effect of cataracts and lens brunescence. The background displays a radial starburst shape that naturally draws the attention to center and aids in fixation.

Key Features:

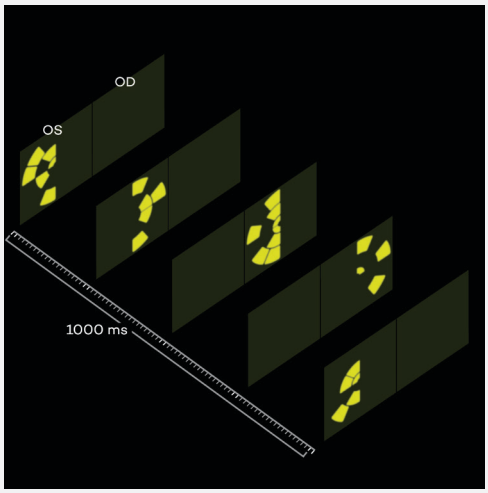
- No patient response button, no eye patch
- Staff & patient friendly
- Less than 1% invalid test repeat rate[2]
- Both eyes are tested at the same time
- ~ 7 minutes test time
- 30°, 24°, & Macular tests
- **CPT Code 92083**[3]



Objective. Finally, no button to push!

Fast, bilateral 30° testing in ~7 mins.

Clustered Volley Method



Clustered Volley is a patented[1] method of presenting statistically independent clusters of stimuli to a sensory field of a subject to evoke pupillary responses in at least one pupil. The appearance or non-appearance of stimuli and their spatial frequency are controlled by pseudo-random, statistically independent sequences.

Visual stimuli are presented bilaterally at multiple locations in the visual field. The resulting pupillary responses from sampling more than 99% of the studied field area, provide a detailed 'map' of visual field function. Standard automated perimetry (Goldman III) typically samples less than 0.5% of the central 30°.

Specifications

Fundamental Method	Multi-focal pupillographic objective perimetry
Intended Clinical Purpose and Use	Visual field examination to measure visual field defects
Visual System Stimulus	Patented clustered volley, sparse, multifocal stimulus
Measurement Technology	Video camera based pupil measurement
Visual Function Assessment	Regression based multifocal analysis
Visual Field Defect Assessment	Population sample normal database comparison
Test Options	30°, 24° and macular test
Trial Lenses	+3D, -3D, +6D, -6D, +9D, and -9D
Background Brightness	10 cd/m2
FDA 510(k) Cleared	K063310

Distributed By:

Interested in learning more?

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1. US 9,848,771, CN ZL201380070192.7, US 10,064,548, EP 2217133, JP 5832747, AU 2008324705, CA 2,704,109, US 8,807,753, AU 2009322076, CA 2,745,486, JP 5763544, AU 2004292359, CA2,547,017, EP 1694206, US 8,583,223, JP 4764349, and other patents applied for.
2. Data on file at Konan Medical.
3. https://www.corcoranccg.com/

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