



Detect early
Track progression
Tailor treatment
using **Objective, Functional
Vision Testing.**



diopsys.com | 973.244.0622

DIOPSYS[®]
EST. 1998

The Diopsys[®] NOVA™ is an electrophysiology device that generates photic stimuli, and records, processes, and analyzes the resultant signals to provide information about the visual system. Diopsys Vision Testing Systems are FDA 510(k) cleared; carry the CE mark; and are IEC 60601 Certified.

© Diopsys, Inc. 2019. All Rights Reserved.

Diopsys® ffERG

Full Field Electretinography Module

Multi- and Fixed Luminance Flicker

Provides objective, functional information about **global retinal health** and is clinically effective in helping doctors manage retinal disorders like:¹⁻⁵

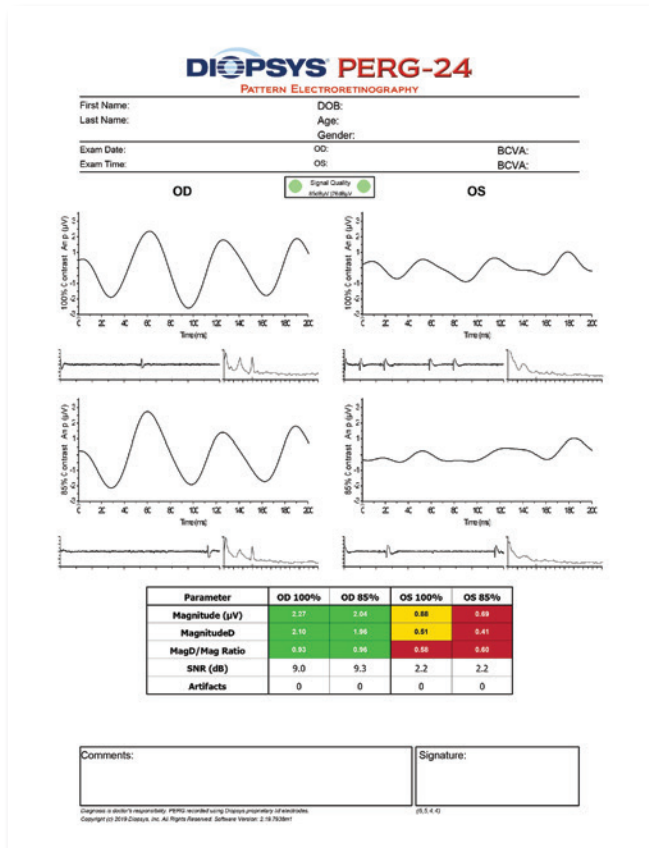
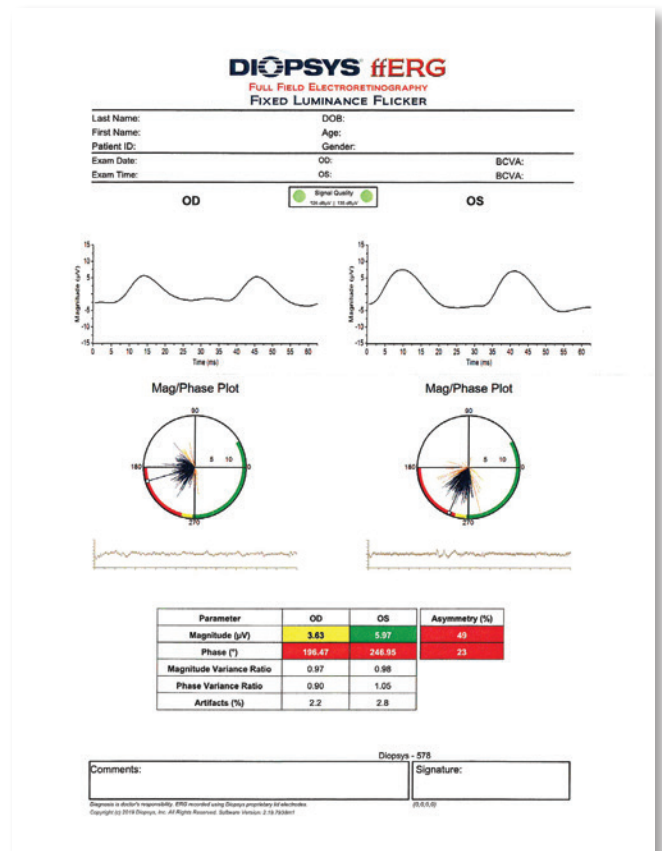
- diabetic retinopathy
- central retinal vein occlusion
- uveitis
- retinal concerns obscured by media opacities

Photopic Negative Response (PhNR)

Provides objective information to help evaluate optic nerve and retinal disease affecting **retinal ganglion cell** function, including glaucoma.⁶⁻⁷

Diopsys® Chromatic Flash Vision Screener

Designed to quickly and easily **screen diabetic patients** for early retinal dysfunction before retinopathy.⁸



Diopsys® PERG

Pattern Electretinography Module

Provides objective, functional information on the performance of **retinal ganglion cells**. PERG has been recognized as an effective test in helping doctors to diagnose and manage disease including:⁹⁻¹⁰

- glaucoma
- diabetic macular edema

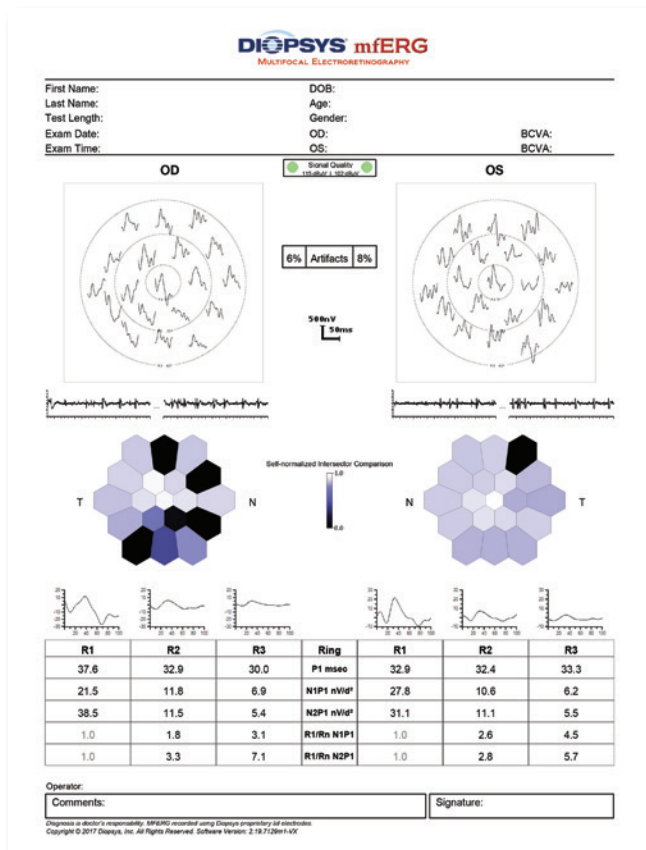
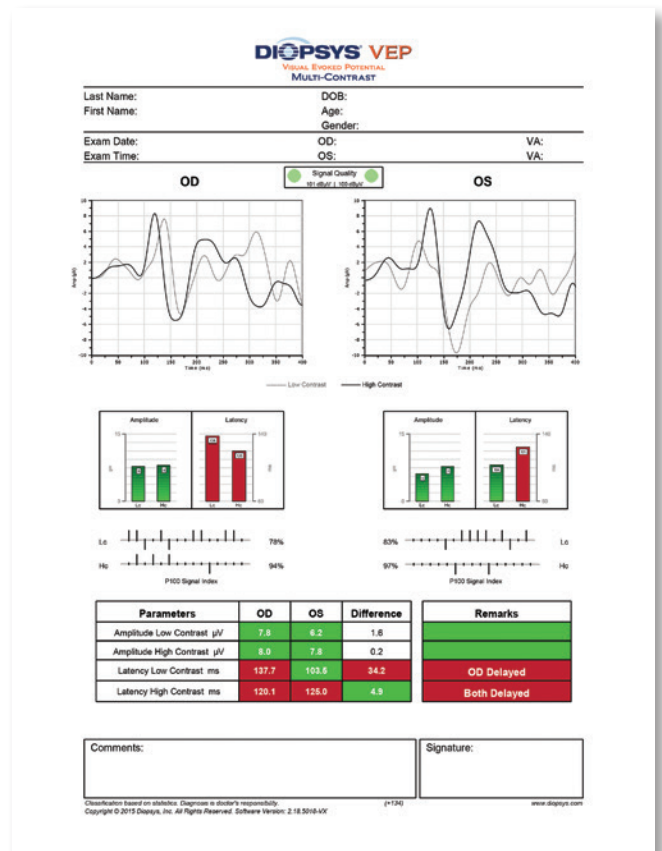
1. Yasuda S, et al. Flicker electroretinograms before and after intravitreal ranibizumab injection in eyes with central retinal vein occlusion. Acta Ophthalmol. 2015;93:e465-8. 2. Moschos MM, et al. Electrophysiological examination in uveitis: a review of the literature. Clin Ophthalmol. 2014;8:199-214. 3. Larsson J, Andréasson S. Photopic 30 Hz flicker ERG as a predictor for Rubeosis in central retinal vein occlusion. Br J Ophthalmol. 2001;85:683-5. 4. Ratanapakorn T, et al. Effect of cataract

Diopsys® VEP

Visual Evoked Potential Module

Provides objective information on the functional integrity of the **entire visual system**, from the anterior segment of the eye to the visual cortex. VEP is often used to help doctors diagnose and manage neuro-visual disorders such as:¹¹⁻¹³

- optic neuritis
- amblyopia
- vision problems due to TBI



Diopsys® mfERG

Multifocal Electroretinography Module

Provides objective information about **localized retinal function** to help recognize the first signs of drug-induced retinopathy.¹⁴⁻¹⁵ In some cases, retinal dysfunction may occur before structural abnormalities, requiring a robust functional testing method to detect retinal toxicity early.¹⁵⁻¹⁷

Three unique platforms. Complete visual electrophysiology suite.



DIOPSYS® RETINA PLUS™ MODERN VISUAL ELECTROPHYSIOLOGY



- Carry case Diopsys® ffERG System
- Scalable to create complete visual electrophysiology suite

DIOPSYS® ARGOS™ ERG AND VEP VISION TESTING SYSTEM



- Tabletop Visual Electrophysiology Suite
- Wireless keyboard with mouse

DIOPSYS® NOVA™ ERG AND VEP VISION TESTING SYSTEM



- Roll-Cart Visual Electrophysiology Suite
- Adjustable height workspace
- Adjustable height patient monitor

of the Flash Electroretinogram in Primary Open Angle Glaucoma. *Invest. Ophthalmol. Vis. Sci.* 2001;42(2):514-522. **8.** Chen H, et al. The photopic negative response of flash ERG in nonproliferative diabetic retinopathy. *Doc Ophthalmol* (2008) 117: 129. **9.** Banitt MR, et al. Progressive Loss of Retinal Ganglion Cell Function Precedes Structural Loss by Several Years in Glaucoma Suspects. *Invest. Ophthalmol. Vis. Sci.* 2013;54(3):2346-2352. **10.** Ozkiris A. Pattern electroretinogram changes after intravitreal bevacizumab injection for diabetic macular edema. *Doc Ophthalmol* 2010;120:243-50. **11.** Naismith et al. Optical coherence tomography is less sensitive than visual evoked potentials in optic neuritis. *Neurology.* 2009 Jul 7;73(1):46-52. **12.** Simon J, et al. A New Visual Evoked Potential System for Vision Screening in Infants and Young Children. *Journal of AAPOS.* 8.6 (2004): 549-554. **13.** McKerral et al. Visual and Cognitive Information Processing after Traumatic Brain Injury: VEP and ERP Studies. *Invest Ophthalmol Vis Sci* 2002;43: E-Abstract 1803. **14.** Hood DC, et al. ISCEV Standard for clinical multifocal electroretinography (2011 edition). *Doc Ophthalmol* 124:1-13. **15.** Dettoraki M, Moschos MM. The Role of Multifocal Electroretinography in the Assessment of Drug-Induced Retinopathy: A Review of the Literature. *Ophthalmic Res* 2016;56:169-177. **16.** Talamini CL, et al. Abnormal multifocal ERG findings in patients with normal-appearing retinal anatomy. *Doc Ophthalmol* 2011;123(3):187-192. **17.** Marmor M, et al. Recommendations on Screening for Chloroquine and Hydroxychloroquine Retinopathy (2016 Revision). *Ophthalmology* 2016;123:6:1386-1394.