

EPIC 4000 Visual Electrodiagnostic Testing System



For those who need a basic clinical system at a highly affordable price. Performs all ISCEV standard tests for ERG, EOG, and VEP. Optional Multifocal ERG / VEP and Sweep VEP available. Compliance Pack provides 21 CFR 11 compliance for regulatory studies.

EPIC-4000 Visual Electrodiagnostic Testing System

The EPIC-4000 system is designed to be used in everything from busy clinical practices to regulatory studies. Compliant with ISCEV standards, it allows you to do basic ERG, VEP, and EOG testing. Fully automated stimulators simplify testing. Built-in normative data simplifies interpretation. The system can be easily upgraded with multifocal ERG/ VEP capability, as well as sweep VEP. The add-on Compliance Pack, developed with a major drug company, allows 21CFR11 compliance if needed.

Design Features

- Computer-controlled Ganzfeld for flash ERG / VEP
- Pattern stimulator for pattern VEP / ERG
- Dilated or undilated EOG tests

Specifications

- 2 channel patient amplifier
- ISCEV compliant stimulators
- Windows-based recording software

EPIC-4000 Specifications

- Certified to IEC 60601-1, UL60601-1 and CSA 22.2 No. 601.1 standards

Interface Unit

- **Number of differential recording channels:** 2
- **Gain settings:** ± 12.5 , ± 25 , ± 50 , ± 125 , ± 250 , ± 500 , ± 1250 , ± 2500 μV full scale
- **Low cut filter:** 0.05, 0.3, 1.0, 5.0, 30, 75 Hz
- **High cut filter:** 30, 70, 100, 500, 1500, 3000 Hz
- **Notch filter:** 60 or 50 Hz
- **Input Power:** 100-250 VAC, 50 - 60 Hz
- **Common mode rejection:** > 110 dB
- **Noise:** < 1.5 μV RMS within 0.3 Hz to 500 Hz band

Full-Field Ganzfeld Stimulator

- Meets ISCEV standards
- 14" diameter full-field globe
- Flash intensity is computer controlled to: 0.008 (-25 dB), 2.5 (0 dB), or 790 (+25 dB) $\text{cd}\cdot\text{m}^{-2}$
- Background intensity is computer controlled to: 30, 70, or 500 cd/m^{-2}
- Neutral density or color filters can be inserted for additional control of flash and background lights
- Fixation Lights: Three LEDs subtending $\pm 15^\circ$; Brightness computer controlled

Pattern Stimulator

- Meets ISCEV standards
- Fully automated control
- 17" Color Flat Screen monitor
- Checkerboard, horizontal, or vertical bars or sinusoids from 2 x 2 to 128 x 128 in powers of 2
- Pattern reversal or pattern appearance stimuli
- Alternation rate: 0.25, 0.1, 1, 2, 3.8, 5, 7.5, 15, 25, 30.5 Hz
- Screen luminance: Approximately 100 $\text{cd}\cdot\text{m}^{-2}$

Options

- CMGS-1 Color Mini Ganzfeld Stimulator
- MGS-2 White Mini Ganzfeld Stimulator
- Multifocal ERG / VEP
- Sweep VEP (objective visual acuity)
- Compliance pack for 21CFR11 regulatory studies

All specifications subject to change.

LKC Technologies, Inc., established in 1975, is an ISO 13485:2003 certified and FDA registered medical device manufacturer with quality products in over forty countries.

US Office

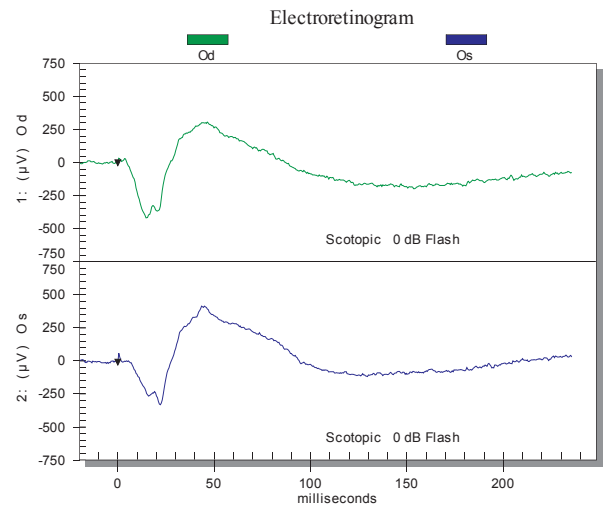
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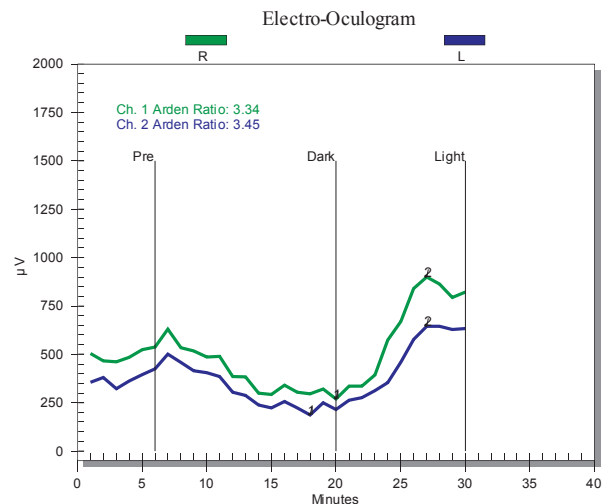
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Flash ERG Report



EOG Report



Pattern VEP Report

