E³ System
Desktop Visual Electrophysiology System
**E³ with LCD Monitor System**

Our advanced high brightness and fast response monitors are custom engineered to enable very effective clinical diagnostic testing.

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**E³ consoles are paired with performance LCD monitors and integrated patient chin rest**

**32-Bit Amplifier**

Unprecedented 1 nano Volt resolution and illuminated receptacles guide lead insertion and electrode contact quality.

**Objective Visual Acuity**

The additional Sweep VEP module OBJECTIVELY estimates a patient's visual acuity at a 97.5% confidence level.

**Pattern Stimulator**

Fully compliant ISCEV standard PERG and pVEP are delivered using the miniature OLED monitor which enables unprecedented repeatability.
**E³ with ColorDome System**

The world's leading Ganzfeld stimulator, ColorDome™ has a trillion-to-1 luminance range and flash durations from nanoseconds to hours

E³ with ColorDome features:
- Most compact Desktop system
- Integrated monitoring camera
- Dozens of test modalities

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Performance Leader

High repeatability: 44 PhNR responses from 8 different intersession tests using multiple E3 systems

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ColorBurst™

Handheld Ganzfeld stimulator option; enables optimal Pediatric and Operating Room ERG testing

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ColorDome Modules

Optional modules further expand system value:
- Pupillometry
- Dark adaptation
- Scotopic threshold
E³ System
Desktop visual electrophysiology system

E³ Features

3rd Generation advanced performance
- All visual electrophysiology tests possible
- Industry leading 32-bit amplifiers: <1 Nano-Volt resolution
- ColorDome™ has a trillion-to-1 luminance range
- Unprecedented ERG repeatability

Modular, full features, easy to use
- 5 powerful stimulators you can mix & match
- Most cost effective, compact system on the market
- Set up system and initiate testing in hours
- Unique, electrode testing amplifier speeds patient set-up
- Most widely used system world-wide

Choose from the broadest range of stimulators in the industry:

<table>
<thead>
<tr>
<th>Stimulator</th>
<th>ColorDome</th>
<th>ColorBurst</th>
<th>Performance LCD</th>
<th>CRT</th>
<th>Envoy OLED Stimulator</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary use</strong></td>
<td>Ganzfeld full-field ERG and EOG</td>
<td>Pediatric, OR, handheld Ganzfeld</td>
<td>Multi-focal ERG</td>
<td>Pattern ERG, VEP</td>
<td>Pattern ERG, VEP</td>
</tr>
<tr>
<td><strong>Applications</strong></td>
<td>Full range of retina functional test: clinical diagnostics, clinical trials, clinical safety studies, stem cell &amp; genetic research, Neuro-ophthalmology, R&amp;D, advanced diagnostics</td>
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</tr>
<tr>
<td><strong>Configuration options</strong></td>
<td>Tablettop, Operating Room</td>
<td>With or without stand</td>
<td>With or without chin rest</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Protocols</strong></td>
<td>ISCEV full-field ERG</td>
<td>ISCEV full-field ERG</td>
<td>ISCEV multi-focal ERG (mfERG)</td>
<td>ISCEV PERG</td>
<td>ISCEV PERG</td>
</tr>
<tr>
<td>Dark-adapted 30 ERG</td>
<td>Dark-adapted 30 ERG</td>
<td>Pattern VEP*</td>
<td>ISCEV Pattern VEP</td>
<td>ISCEV Pattern VEP</td>
<td></td>
</tr>
<tr>
<td>Photopic On-Off</td>
<td>Photopic On-Off</td>
<td>Multi-focal PhNR (mfPhNR)</td>
<td>Multi-focal ERG (19 hex)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Visual Evoked Potential (VEP)</td>
<td>Flash VEP</td>
<td>Sweep VEP</td>
<td>Uniform field PERG</td>
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<td>DA red flash</td>
<td>DA red flash</td>
<td>Multi-focal VEP**</td>
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<td></td>
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<tr>
<td>Photic negative response (PhNR)</td>
<td>PhNR</td>
<td></td>
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<tr>
<td>Scotopic threshold response</td>
<td>Scotopic threshold response</td>
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<tr>
<td>Double flash ERG</td>
<td>Double flash ERG</td>
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<tr>
<td>EOG</td>
<td></td>
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<tr>
<td>Pupillometry</td>
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<tr>
<td>Fast scotopic threshold</td>
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<td>Other: see ColorDome brochure</td>
<td>Other: see ColorBurst brochure</td>
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</tbody>
</table>

Notes: 1) *Non-ISCEV standard protocol; 2) **Currently in development at Diagnosys
### System specifications

**E³ Console**
- Advanced real-time acquisition system with integrated power isolation
- Direct pattern generator
- Isolated auxiliary line outlets to meet medical leakage current standards
- All-digital filtering
- Hardened, machined aluminum case

**Amplifier**
- Full DC 2-channel, fully differential, 32-bit amplifiers have 1 nano Volt resolution, which provide the highest resolution in the industry; ultra-low noise
- 5 Volt input range, ensures amplifier will not over-range
- Common mode rejection: >100 dB

**Stimulators**
Refer to individual stimulator brochures

**Computer**
Desktop all-in-one computer or Laptop computer; Runs on Windows® 7 through 10

**Espion Software**
- Automatic rejection
- Peak/trough detect & measure
- SQL relational database
- Multiple operator modes

**Cameras**
Included with ColorDome and LCD monitor

**Dimensions**
- **E³ Console (WxDxH):** 17 x 13 x 3.4 inches (432 x 330 x 86 mm)
- **Computer (typ, 22” all-in-one):** 21 x 14 x 2.5 inches (533 x 356 x 64 mm)

**Weight**
- **E³ Console:** 27 lbs (12.2 kg)
- **Computer (typ, 22” all-in-one):** 14 lbs (6.4 kg)

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### LCD Monitor Travel Case

Unique electrode lead testing system uses illuminated receptacles to guide lead insertion and indicate electrode contact quality, including ground

### E³ system configurations

**Model number:** D315
**Configuration:** select 1 option per field below

Note: all systems come with an E³ console, 32-bit amplifier with stand, computer, Espion software and starter accessory kit.

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### Optional accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D343</td>
<td>Dark adaptation module (w/ColorDome)</td>
</tr>
<tr>
<td>D196</td>
<td>Scotopic threshold module (w/ColorDome)</td>
</tr>
<tr>
<td>D355</td>
<td>Papilloscopy module (w/ColorDome)</td>
</tr>
<tr>
<td>D370</td>
<td>Sweep VEP module (w/Blue Profile)</td>
</tr>
<tr>
<td>D354</td>
<td>CRT</td>
</tr>
<tr>
<td>D563</td>
<td>Travel case: LCD Monitor and chin rest</td>
</tr>
</tbody>
</table>

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Simplify your visual electrophysiology

Espion™ software provides detailed test reports that are concise and easy to interpret (ISCEV standard mfERG tests using the E³ system with an LCD monitor shown).

The industry leader.
Decades of experience, thousands of installations.

- Most experienced customer support team in the industry
- Hundreds of peer-reviewed papers published using our systems
- Extensive world-wide network of leading experts operating Diagnosys systems

Ordering information:

Model #: D315

System options:
- Normative data (ERG and/or mfERG)
- DICOM print module
- Dark adaptation module (w/ColorDome)
- Scotopic threshold module (w/ColorDome)
- Pupillometry module (w/ColorDome)
- Sweep VEP module (w/LCD monitor)

If you would like more information on Diagnosys products, please contact us at either our US or UK locations.

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