



E^3 System

**Desktop Visual
Electrophysiology System**

E³ with LCD Monitor System

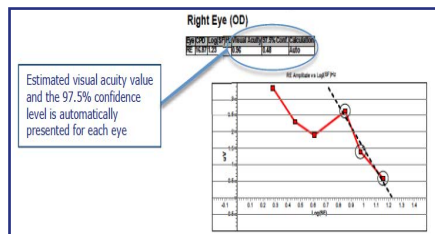
Our advanced high brightness and fast response monitors are custom engineered to enable very effective clinical diagnostic testing

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

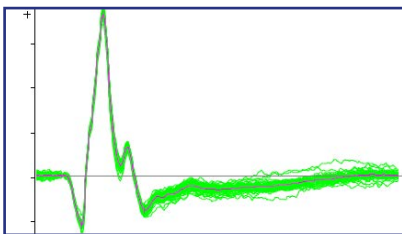
Not all products are available in every country and their use may be limited by local regulations. Contact your local Diagnosys representative for more information.

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



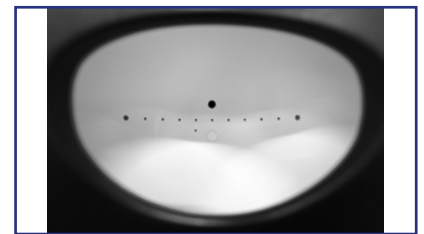
Performance Leader

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



ColorFlash™

Handheld Flash stimulator option; enables Pediatric and Operating Room ERG/VEP, FST and DA testing



ColorDome Modules

Optional modules further expand system value:

- Pupillometry
- Dark adaptometry
- DiagnosysFST®

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

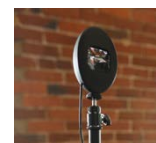
Modular, full features, easy to use

- 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

E³ console, 32-bit amplifier, computer and Espion software.



Choose from the broadest range of stimulators in the industry:



<u>Stimulator</u>	ColorDome	Performance LCD	ColorBurst	ColorFlash	Envoy Mini Pattern Stimulator
<u>Primary use</u>	Ganzfeld full-field ERG and EOG	Pattern stimulator	Monocular, OR, handheld Ganzfeld	Pediatric, binocular flash	Pattern ERG, VEP
<u>Applications</u>	Full range of retina functional test: clinical diagnostics, clinical trials, clinical safety studies, stem cell & genetic research, Neuro-ophthalmology, R&D, advanced diagnostics				
<u>Protocols</u>	ISCEV full-field ERG (5 tests)	ISCEV multi-focal ERG (mfERG)	ISCEV full-field ERG (5 tests)	Light-adapted flash ERG	ISCEV PERG
	All ISCEV Extended ERG protocols	Pattern VEP	All ISCEV Extended ERG protocols	Dark-adapted flash ERG	ISCEV Pattern VEP
	Long duration flash, Double flash ERG	Uniform field PERG	Long duration flash, Double flash ERG	Flash VEP	Multi-focal ERG
	Flash Visual Evoked Potential (VEP)	Multi-focal PhNR (mfPhNR)	Flash VEP	PhNR	Uniform field PERG
	Uniform field PERG	Multi-focal VEP	Uniform field PERG	Red flash	
	Photopic negative response (PhNR)	Sweep VEP	PhNR	Double flash ERG	
	Scotopic threshold response			Dark adaptometry	
	EOG			FST	
	Dark adaptometry				
	Pupillometry				
	FST				
	Note: see individual stimulator brochures for additional standard protocols and normative data offered. A wide variety of custom protocols are also possible on Diagnosys systems.				

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System specifications

E ³ Console	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Automatic rejection • Peak/trough detect & measure • SQL relational database • Multiple operator modes
Cameras	Included with ColorDome and LCD monitor
Dimensions	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • E³ Console: 27 lbs (12.2 kg) • Computer (typ, 22" all-in-one): 14 lbs (6.4 kg)

LCD Monitor Travel Case



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

Amplifier



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.

D315	1	Configuration family	1	110 Volt power supply	CDXSL	ColorDome with Xenon with power supply, desktop stand and chin rest	27	27" LCD display and chin rest	1	Colorburst Handheld Stimulator with Stand	T	Envoy Mini-OLED on a table stand	D	Desktop computer and Espion software
			2	220 Volt power supply	CDXRL	ColorDome with Xenon & desktop OR stand, with power supply, and chin rest	NN	No LCD display or chin rest	2	Colorburst Handheld Stimulator with NO Stand	N	No Envoy	P	Portable computer and Espion software
					CDNSL	ColorDome with NO Xenon with power supply, desktop stand and chin rest			N	No Colorburst Handheld Stimulator			N	No computer
					CDNRL NNNNN	ColorDome with NO Xenon & desktop OR stand, with power supply, and chin rest No ColorDome								

Optional accessories

Model	Description
D342	Dark adaptometry module (w/ColorDome)

Optional accessories

Model	Description
D343	Dark adaptometry module (w/ColorDome)
D196	FST module (w/ColorDome)
D355	Pupillometry module (w/ColorDome)
D370	Sweep VEP module (w/Blue Profile)
D363	Travel case: LCD Monitor and chin rest

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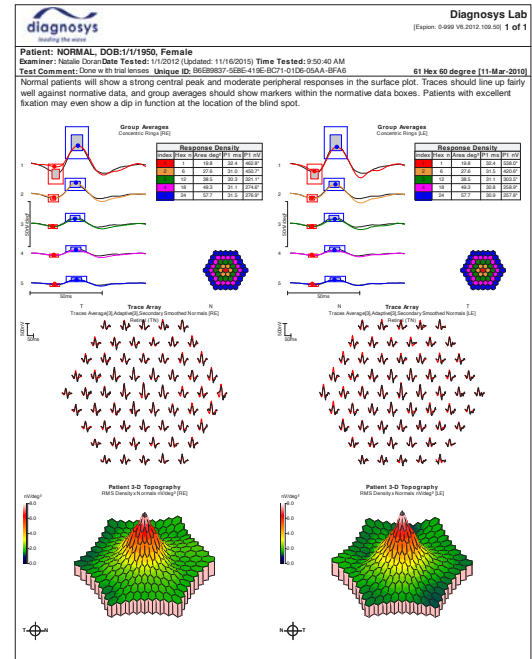
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Simplify your visual electrophysiology



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 adaptometry module (w/ColorDome)
Diagnosys*FST* module (w/ColorDome)
Pupillometry module (w/ColorDome)
Sweep VEP module (w/LCD monitor)



Please contact us if you would like more information on Diagnosys products.

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