

Envoy™ OLED Monitor

Advanced PERG and Pattern VEP

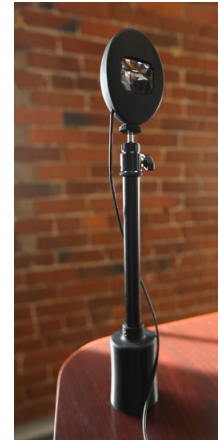


PERG Applications

- Assist in detecting and monitoring dysfunction of retinal ganglion cells and the macula.
 - Glaucoma
 - Macular disease and dysfunction
 - Diabetic maculopathy
 - Distinguish between maculopathy & optic neuropathy

VEP Applications

- Assist in detecting and monitoring dysfunction of optic nerve & disc function.
 - Optic nerve atrophy, including glaucomatous
 - Ischemic optic neuropathy
 - Papilledema
 - Optic neuritis, Multiple sclerosis



Envoy shown mounted on its table stand

Features

Advanced performance

- Very high luminance
- High contrast black and white monitor
- 19 hexagon mfERG protocol

Easy to use

- Monocular and ultra compact
- Setup in minutes & portable
- Desktop, extendable arm for cart, handheld

Specifications

Display type: OLED SVGA 800x600 pixel array	Calibrated luminance: >500 cd/m ²
Contrast ratio: >300:1	Monochromatic black and white
Viewing area: approx. 12.5 x 9mm	Viewing angle: 24x32 degrees
Response time: <1 ms	Checks, bars, gratings as standard with 1 pixel resolution
Envoy Monitor Weight: <1 lb (0.5 kg)	Dimensions: 3.9 x 2.8 x 1.8 inches (98x70x45 mm)

Industry leading protocols

- Pattern Electroretinography (PERG), ISCEV standard
- Pattern Visual Evoked Potential (VEP), ISCEV standard
- Custom PERG, including horizontal bars and larger field size
- Custom Pattern VEP, including multiple contrast levels and larger field size
- Hemi-field, quadrant patterns
- Onset VEP

Envoy ordering information

Envoy configuration

Model number: D352

Configuration: select 1 option per field below

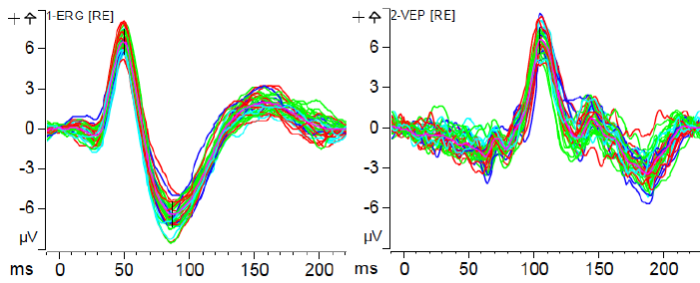
D352	
T	Envoy Mini-OLED on a table stand
X	Envoy Mini-OLED on an extendable arm
B	Envoy Mini-OLED on an extendable arm and also including a table stand
N	No stand

Available on the following systems:

- Diagnosis *E³* desktop systems (D315)
 - Option "T"
- Diagnosis *Profile* cart systems (D310)
 - Options "T", "X", and "B"

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

Repeatability



Summary: 40+ tests done on the same subject, across 12 test sessions over 6 weeks at different times of the day, 20 different sets of DTLs, 4 controller/amplifier systems and 7 different OLED monitors. No post processing or elimination of data was done.

Envoy shown mounted on a Profile cart system



Envoy OLED compared to CRT

Comparison:

- Envoy stimulates up to 30% more peak amplitude vs CRT
- Peak time: very similar implicit times
- Envoy test repeatability: better, with <math>< \frac{1}{2}</math> sweeps required vs CRT

PERG

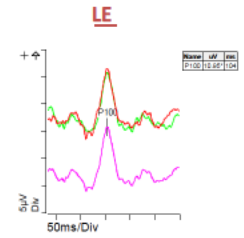
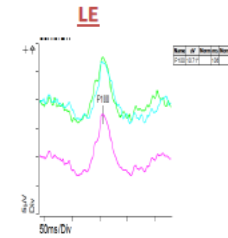
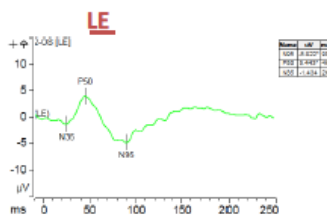
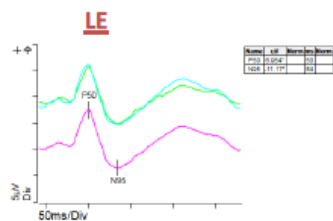
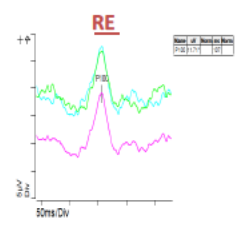
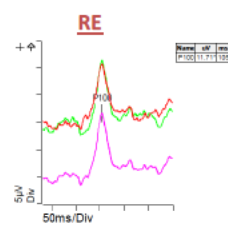
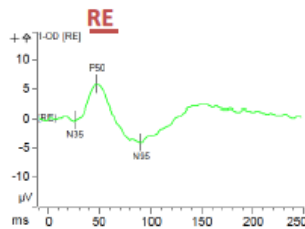
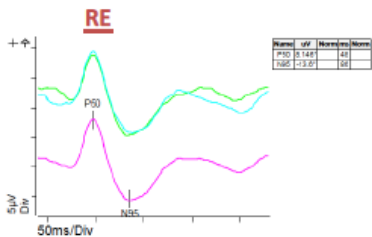
Pattern VEP

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CRT monitor

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CRT monitor



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