Vision Monitor Vision electrophysiology system

- Electro-retinography (ERG)
- Visual evoked potentials (VEP)



• Electro-oculography (EOG)

Manufactured by Metrovision ISO 13485: 2016 certified quality system

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Flash ERGs

Evaluation of responses from the different layers of the retina and from the rod and cone systems.

Realization of ISCEV protocols and of research protocols.



Pattern ERGs

Evaluation of responses from ganglion cells and from the macula.



Multifocal ERGs

Realization of a detailed and objective cartography of the electrical activity of the retina.





Unique features:

- high luminance stimulation,
- precise control of stimulation timing,
- large field refractive lenses,
- age corrected normative database,
- ring ratio analysis











MfERG in hydroxychloroquine intoxication showing a reduction of amplitude between 2 and 5 degrees of eccentricity.

-2 000

Flash and pattern VEPs

Evaluation of cortical responses to flash and pattern stimulations.

Unique features:

- Active control of luminance
- Statistical analysis of the reliability of responses







Response to a pattern reversal stimulation



Response to a pattern on-off stimulation

Sensory EOG

Evaluation of responses from the pigment epithelium.



Fixation control and video imaging

All stimulators are equipped with a near-infrared camera for near vision tests (30 cm). On the MonPackONE stimulator a second camera



is proposed as an option for distance tests (1 m). Another option allows the video recording of exams which may be used for a post-exam analysis of responses.

Examinations and options

Vision electrophysiology exams

- Flash and pattern ERG and VEP exam **PVM-EL**
- Sensory EOG exam
- Multifocal ERG and VEP exam
- Sweep VEP exam
- Multifrequency VEP exam

Options

• Electric table

HVM-TABLE

PVM-ES

PVM-MU

PVM-SS

PVM-ST

Vision psychophysic exams

- Contrast sensitivity exam
- Dark adaptometry exam (ganzfeld dark adaptometry and FST)
- Visual aptitude exam PVM-AC
- (Landolt rings, ETDRS, glare test, color test)
- Visual field exam **PVM-CV** (automated static perimetry)
- Visual field PRO exam **PVM-CW** (Goldmann, Blue/Yellow & Motion perimetry)
- Attention visual field exam **PVM-UF**

- Additional camera for distance tests
- Set of large field refractive lenses
- High speed camera (200Hz)
- Video and eye movement recording (during visual field and other exams)
- Portable flash stimulator for children and patient in lying position

HVM-CAMERA HVM-OPTI HVM-camera-200 **PVM-CF**

HVM-MonBaby

• Macular pigments exam • Metamorphopsia exam

Eye movement exams

- Electro-nystagmography exam
- Video-oculography exam
- Pupillometry exam
- Scan path analysis exam
- Baby vision exam



PVM-SC

PVM-AO

PVM-EO PVM-YE PVM-PU PVM-SA

PVM-EN



MonPackONE stimulator

Compact and universal stimulator:

- Combines ganzfeld, pattern and multifocal stimulation functions
- Active control of luminance (patent pending)

Bioelectric amplifiers

- 2, 4 or 5 channels
- High performances

 (input noise < 0,5 μV pp, CMRR > 115 dB,
 input impedance> 200 Mohms)
- Optoelectronic isolation
- Automated control of electrode impedances



Correction of refractive errors

A set a large field lenses (55 mm in diameter) prevents errors resulting from the lens rim or lens misalignment in multifocal ERG exams





User interface

- Standard PC with Windows 10 or 11 environment
- Access to results through the computer network
- Easy exportation of data
- Video monitoring window
- Single data base for all exams
- Internet assistance and maintenance
- DICOM option

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