Vision Monitor

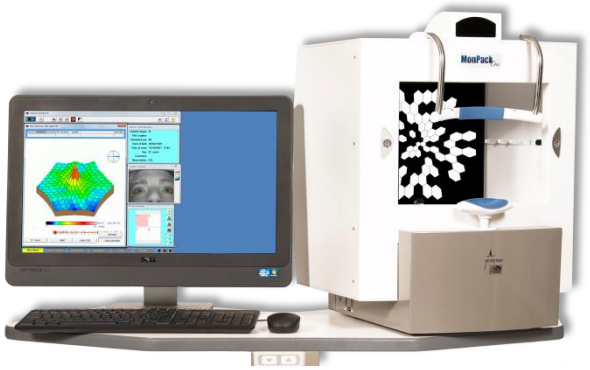
MonPack One

UNIVERSAL VISUAL STIMULATOR

MonPack One is a multifunction stimulator combining, in a compact system, all the tests needed for a complete, thorough evaluation of visual functions. Only one stimulator with an innovative design is needed for flash ganzfeld ERG and VEP, pattern ERG and VEP, multifocal ERG and VEP as well as sensory EOG.

MonPack One is compatible with the ISCEV standards for visual electrophysiology. It includes a LED backlight with a luminance feedback (patented) insuring that the luminance of pattern ERG and pattern VEP stimulations remains constant.

MonPack One can be combined with the MonColor stimulator to perform advanced electrophysiology tests and with the MonBaby stimulator for tests on young infants.



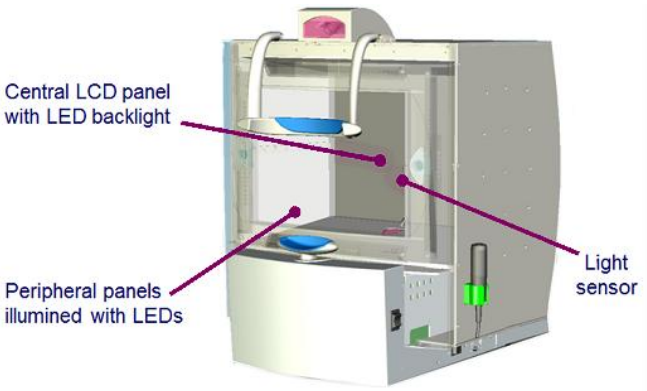
MonPack One offers a large number of clinical applications not only for visual electrophysiology but also for visual psychophysical tests such as contrast sensitivity, dark adaptation as well as oculomotor tests such as pupillometry and electronystagmography.

MonPack One, thanks to its modular design, can easily be configured to suit individual needs and is easily upgradeable.

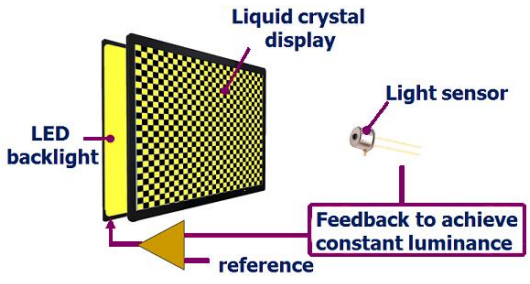
A new technology for vision tests

MonPack One presents a highly innovative design combining a central monitor with LED backlight surrounded by peripheral panels illuminated with LEDs.

The luminance output is constantly monitored by a light sensor and is used to control the LED backlight in order to achieve constant luminance and eliminate the luminance artifact generated by standard LCD monitors (patented).



Note : according to the ISCEV standard, pattern reversal and pattern on-off stimulations used for ERG and VEP should not present any change in average luminance.



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Ganzfeld flash stimulations for ERG and VEP

Ganzfeld stimulation is obtained by switching the central LCD panel to transparent mode and generating light flashes with the LEDs from the backlight and from the periphery.

- **Ganzfeld background luminance**
  Programmable from 0 to 100 cd/m2
  (80 steps with a progression of 0.05 log units)
- **Ganzfeld stimulus luminance**
  Programmable from 0 to 600 cd/m2
  (80 steps with a progression of 0.05 log units)
- **Color**
  White, red, blue, green and their combinations
- **Duration**
  From 2 ms and up by steps of 1 ms

Pattern reversal and pattern on-off stimulations for ERG and VEP

- Luminance feedback avoiding the luminance artifact of standard LCD monitors (patented)
- Fully compatible with ISCEV standards for pattern ERG and pattern VEP
  (no change of the average luminance)
- Programmable hemifield and quadrant stimulations
- **Size** 48 cm in diagonal
- **Spatial resolution** 1024 x 768 (0.21 mm)
- **Frame frequency** 60 Hz

Pattern stimulations for sweep VEP

- Can generate rapidly changing sequences of pattern sizes (20 pattern sizes within 12 seconds) suitable for the sweep VEP exams used for the measurement of visual acuity in young infants and in malingering patients.
- Luminance feedback avoiding the luminance artifact of standard LCD monitors (patented).
- More details in our brochure relative to sweep VEP exams (reference PVM-SS).

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Multifocal stimulations for MfERG and MfVEP

- Ultra high luminance stimulations (up to 600 cd/m2) allowing an excellent signal to noise ratio.
- Flashed backlight providing 1 ms appearance and disappearance times.
- Controlled background luminance.
- More details in our brochure relative to Multifocal exams
  (reference PVM-MU-ERG and PVM-MU-VEP).

Video monitoring

MonPack One includes 2 near infra-red video cameras: one built-in camera for tests performed at 30 cm and one optional camera for tests performed at a distance of 1 meter.

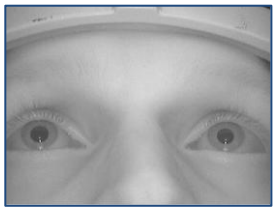
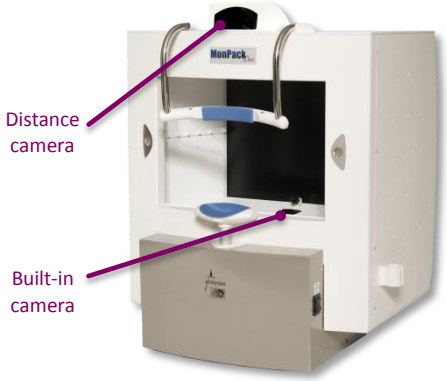


Image from built-in camera

Image from distance test camera



Electrophysiology applications

Flash and pattern VEP and ERG	PVM-EL
Sensory EOG	PVM-ES
Multifocal ERG	PVM-MU-ERG
Multifocal VEP	PVM-MU-VEP
Sweep VEP	PVM-SS

Options

Electric table	HVM-TABLE
Additional camera for distance tests	HVM-CAMERA
Set of large field refractive lenses	HVM-OPTI
Remote control	HVM-REMOTE

Psychophysical tests

Contrast sensitivity	PVM-SC
Dark adaptation	PVM-AO
Visual aptitudes and glare test	PVM-AC
Static perimetry	PVM-CVS
Goldmann perimetry	PVM-CW
Attention visual field	PVM-UF
Macular pigment density	PVM-PI
Metamorphopsia	PVM-ME

Oculomotor tests

Electro-nystagmography	PVM-EO
Pupillometry	PVM-PU
Scan path analysis	PVM-SA
Visual pursuit test for babies	PVM-EN

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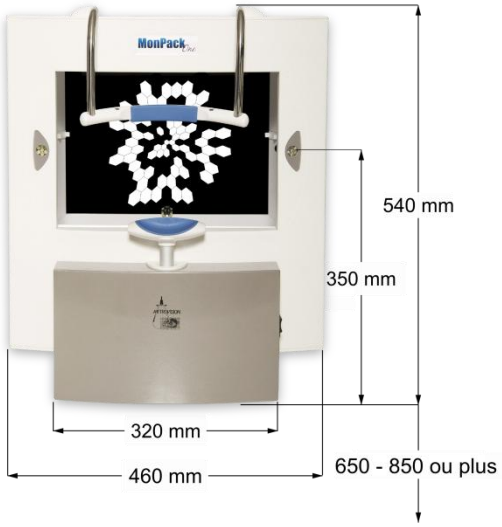
Electrical and mechanical specifications

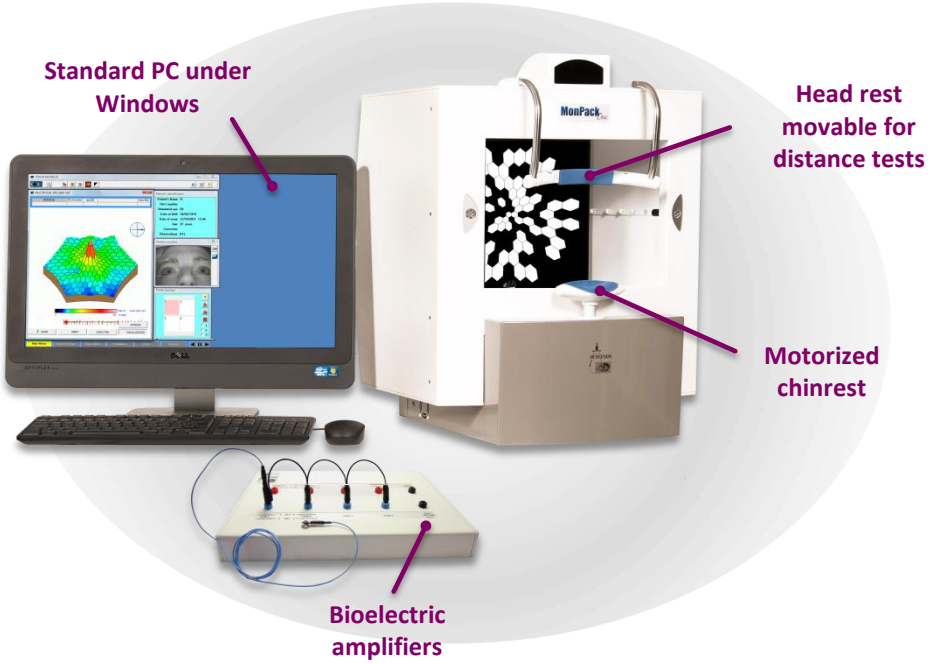
The MonPack One stimulator is classified as class I type B protection equipment.

To prevent electric shock, the instrument must be plugged into an earth grounded outlet.

The power requirements are 230V, 0.7A or 110V, 1.4A, 50 or 60Hz.

Weight = 25 kg
(without PC and electric table).





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