Visual evoked potentials with flash or pattern stimulation (VEP)

- Automated control of the impedance of electrodes.
- Simultaneous recording of up to 5 channels.
- Automated rejection of artefacts (eye blinks, patient’s movements).

Real time statistical analysis indicating the reliability of responses during the exam and at the time of their interpretation.

For the examination of young children: generation of cartoons to maintain the attention.

**COMPATIBLES STIMULATORS**

<table>
<thead>
<tr>
<th>MonPackOne</th>
<th>MonColor</th>
<th>MonBaby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal stimulator for all standard exams with flash and pattern stimulations.</td>
<td>Flash stimulator for advanced electrophysiology.</td>
<td>Flash stimulator for ERG and VEP in young infants.</td>
</tr>
</tbody>
</table>

Stimulators MonPackOne and MonColor are equipped with a near infra-red video camera for exams performed at near distance (30 cm).

For the examinations performed at longer distances, the MonPackONE stimulator can be equipped with an additional near infra-red camera (option reference HVM-camera) which is very useful for the examination of young children and malingering patients.
**Flashes electroretinograms (ERG)**

Realization of the ISCEV protocol:
- **Rod response** with low intensity stimulation under dark adaptation,
- **Mixed response** (rods and cones),
- **Cone response** with standard flash stimulation and with flicker stimulation (30 Hz) under light adaptation,
- **Automated analysis** of amplitudes and implicit times, frequency analysis, analysis of oscillatory potentials.

**Additional stimulations**: blue scotopic and red photopic.

---

**Pattern electroretinograms (PERG)**

Reliable results are obtained thanks to the optimization of stimulation parameters, to the use of electrodes that do not degrade the quality of the retinal image of the stimulation and to efficient algorithms for the rejection of artefacts.

---

**Additional tests**

The **procedure editing program** allows modifying the parameters of the stimulation, of the acquisition of responses and of their analysis.

Specific procedures can also be developed on special request.

The **sweep VEP program** (reference PVM-SS) allows a fast determination of visual acuity by using steady state stimulation with a real time analysis of responses with a fast Fourier transform of the recorded signals.

---

**Electrodes**

The equipment and program provided by Metrovision are compatible with the different electrodes commercially available.

**For VEP exams**: cupula and needle electrodes

**For ERG exams**: corneal electrodes, DTL, HK loop, gold foil,

A large set of electrodes is proposed in the catalogue of electrodes supplied by Metrovision.