Updated versions 7/2012

VISIOcoach Personal
Software for individual training at home
• 3 levels of difficulty
• Feedback on the progress
• The program is available in English and German
• The manual is available in the following languages:
  Arabic, Bulgarian, Chinese, Danish, Dutch, English, French,
  German, Italian, Japanese, Korean, Norwegian, Polish,
  Slovenian, Swedish, Spanish and Russian

VISIOcoach Professional
Software for use at office, clinic or rehabilitation institution including the functions:
• Training software for several patients, simultaneously and successively
• Patient data base
• Option to import external individual patient data
• Network-compatible

How to order
VISUS GmbH
Moritz Fanti
Tel.: + 49 (0) 7032-94 30 83
Fax: + 49 (0) 7032-94 30 85
E-mail: visiocoach@visus.de
Internet: www.visiocoach.de

Price
VISIOcoach Personal 298.- € (+ VAT and shipping)
VISIOcoach Professional 598.- € (+ VAT and shipping)

Scientific questions
Prof. Susanne Trauzettel-Klosinski, MD
Vision Rehabilitation Research Unit
Centre for Ophthalmology
University of Tuebingen
E-mail: susanne.trauzettel-klosinski@uni-tuebingen.de
The research group does not have any personal financial interest.

References
Training for Hemianopia

Developed at the Vision Rehabilitation Research Unit, Tuebingen.

Brain damage due to stroke, trauma or tumor often involves the visual pathways and then causes homonymous visual field defects such as hemianopia or quadrantanopia, i.e. a half or a quarter of the visual field are missing in both eyes on the same side.

The aim of the training is the better utilization of the total field of gaze by explorative eye movements towards the blind visual field. Thus, information from the blind side can be perceived by scanning eye movements.

The effect of the training is better orientation and mobility in patients with hemianopia and therefore improved independence and quality of life.

Characteristics of the program
- Explorative saccade training to compensate for hemianopic visual field defects
- The PC software controls the training that presents search tasks repeatedly to the patient. Reaction time to find each object is measured
- Scientifically evidence-based: the effectiveness of the training has been demonstrated in a randomized and controlled trial (ref. 1). Within 6 weeks, marked improvement occurred, which persisted also after the training. This shows that the new strategies learned during the training can be applied to everyday life
- The training is also effective in patients with long-standing hemianopia
- After first instructions by the doctor or other professionals, the simple handling allows independent training by the patient at the PC at home, in the office or clinic, even for patients without computer experience

Modes of application
- Diagnosis-specific
  For lesions of the visual pathways with homonymous visual field defects (hemianopia, quadrantanopia) after brain injury (stroke, trauma, tumor, etc.)
- Disability-specific
  For orientation disorders due to homonymous field defects

Areas of application
- Private practice
  Ophthalmology and neurology office
- Clinic
  Low vision clinics and neurological rehabilitation institutions
- At home
  After receiving instruction by the ophthalmologist, neurologist or other professionals, the patient can train independently at home
- Research
  Documentation, evaluation, follow-up studies

Documentation of results
Written automatically in Microsoft Office Excel format

Documentation material
Instructions for the patient, instructions for professionals

Hardware requirement
- PC with Microsoft Windows XP™/ Vista™/ 7™, 17 inch screen minimum
- The software is provided ready to use on a memory stick with USB connector

Figure
Top: When looking straight, half of the visual field is lacking (hemianopia), bottom: with scanning eye movements, the field defect is shifted towards the hemianopic side and the information from the blind side can be utilized