## About NeuroEyeCoach

NovaVision has developed the proprietary computer-based eye movement training program NeuroEyeCoach in conjunction with Professor Josef Zihl of the Max Planck Institute in Munich and Professor Arash Sahraie, Chair in Vision Science at the College of Life Sciences and Medicine, University of Aberdeen, Scotland.

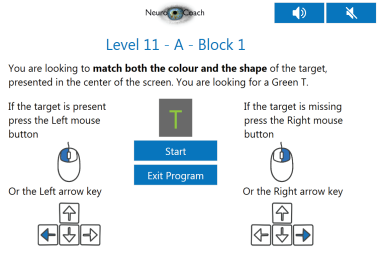
NeuroEyeCoach is a systematic eye movement training program designed to help people suffering from visual field deficits as a result of stroke or other brain injury. Visual field loss is very often accompanied by a decreased ability to explore the affected visual field with sufficiently large and precise eye movements. However, patients need to be able to make these eye movements; NeuroEyeCoach is designed to improve a patient's ability to scan the environment quickly and efficiently to compensate for the visual field deficit.

## About The Therapy

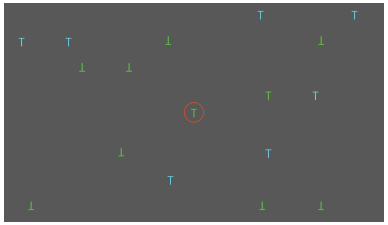
During a training session, the patient is asked to search a computer screen and decide if a particular item is present amongst various distractors. NeuroEyeCoach is adaptive and adjusts the task difficulty for the patient's visual deficit while encouraging eye movement efficiency.

The program has 12 levels of difficulty that can be completed in a minimum of 36 sessions, each taking around 15 – 20 minutes. The pre- and post-therapy evaluations within the program enable clinicians and patients to quantify the impact of the therapy.

The user-friendly application promotes high compliance since no intensive measures are required to use the program or to supervise its use. The program is designed to be easily operated within both clinic settings and the home environment and is registered with the FDA..




*An introduction explaining what must be done.*



*An example of the display during a therapy session.*

*The item in the orange circle is the target being sought at this level of the program.*

## The Science Behind NeuroEyeCoach

NeuroEyeCoach's computer-based treatment approach is based on several decades of scientific research pioneered by Professor Josef Zihl, including 13 studies on a total of 551 patients with homonymous visual field loss.

The main outcome of eye-movement training is a significant improvement in visual search performance accompanied by more efficient oculomotor strategies. Patients report notable improvements in navigation skills and activities of daily living.

The treatment approach has been shown to be more effective in improving visual exploration than other rehabilitation methods, for example non-specific visual training.

**Important:** time since brain injury and age of the patient affected do not have significant effects on treatment (Zihl, 2011; Schuett & Zihl, 2012).

Visit our website for more details!

## Benefits

- Designed to improve visual search performance, navigation and object finding skills.
- Increases eye movement efficiency allowing patients to make the most of their remaining vision.
- Performed in the comfort of the patient's home.
- Intuitive and user-friendly program which adapts to the responses of the patient.
- Designed to be completed in 2–4 weeks.

## Patient Requirements

### Medical

NeuroEyeCoach may not be suitable for certain conditions:

- Patients with a history of seizure disorders, especially photosensitive, must NOT undergo NeuroEyeCoach.
- Those with significant cognitive deficits.
- Patients with acute inflammation of the eyes or central nervous system.

### Physical

- Able to sit upright and concentrate without distraction for training sessions of approximately 15 to 20 minutes, 2 to 6 times a day.
- Although there are no age limits, NeuroEyeCoach is not recommended for children.

## *Next Steps*

*Find out if NeuroEyeCoach may be right for you*

**Download our NeuroEyeCoach Demo**

## Contact Patient Services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NeuroEyeCoach

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