NeuroTracker Virtual Helmet – Ultimate Protection for the Brain

Perceive, process, predict
Training attentional abilities that help you to perceive and avoid danger in time

The best way to protect against injury is to actively avoid it – NeuroTracker training improves attention and situational awareness so you know what is going on, and have the mental tools to take corrective action in time. Seeing dangers earlier, and being better able to predict movement and trajectory paths, is crucial for protecting people when they are playing sports, riding their bikes or even just crossing the street. NeuroTracker improves the brain’s ability to perceive, process and predict dangers in sports, traffic and everyday situations:

1. **Perceive**: Training allows you to read biomechanical motion more effectively and at speed – so while e.g. playing sports it becomes easier to read body movements.
2. **Process**: Training improves processing in the brain – this basically means that it takes less effort to e.g. follow a puck and leaves more mental reserves available to plan an appropriate reaction to possible injury threats.
3. **Predict**: Training makes trajectory prediction more effective – incredibly useful for cyclists on the road, young hockey players, or anyone crossing a busy street.

Virtual Head Protection
Protecting from accidents by making sure they do not happen

NeuroTracker training is the new head protection – boosting awareness and avoiding injuries altogether is the only sure way of remaining truly safe. Injuries do not happen if there is no accident. So how does NeuroTracker do this, which mental processes does the system train?

**Dynamic attention**: which is required to pay attention to scenes with fast motion in and out of sight. This is a skill that is especially useful when playing sports or trying to negotiate heavy traffic in the street.

**Distributed attention**: which is essential for tracking multiple targets spread out across the field of view. This is especially relevant for peripheral vision, as targets at wider angles are much more difficult to track. Many injuries come from unexpected collisions, expanding peripheral awareness will do much to reduce the surprise, and allow for injury avoidance.

**Selective attention**: which is the maintenance of focused attention on something important, while resisting distractions. Getting distracted when, for example, riding a bike in heavy traffic could be disastrous.

**Sustained attention**: It is often very small lapses in concentration that cause kids to ‘lose the thread’ – whether in sports or road safety, sustaining attention is crucial to maintaining an accurate picture of what is going on in order to better react to an potential dangers.

NeuroTracker
enhance your attention

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