MonIReST

A new standardized reading test with eye movement recording available on Metrovision systems

Jacques Charlier

Metrovision has just signed a partnership with Odilia Vision GmbH for the use of international IReST reading speed texts on its Vision Monitor devices.

The IReST reading texts

IReST texts are today one of the main international standards for reading tests.

They were developed by the IReST Study Group (coordinator Professor Susanne Trauzettel-Klosinski).

The same texts exist in 17 languages (German, English, Arabic, Chinese, Spanish, Finnish, Flemish, French, Hebrew, Italian, Japanese, Polish, Portuguese, Russian, Slovenian, Swedish and Turkish)

These are standardized texts intended for measuring reading speed under natural conditions, such as newspaper reading.
Each language includes 10 texts of the same length, equalized in difficulty and linguistic complexity. These texts are homogeneous and comparable in the same language for repeated measures, but also from one language to another for international studies.

Reference:
Trauzettel-Klosinski S, Dietz K and the IReST Study Group. Standardized assessment of reading performance: the new International Reading Speed Texts IReST, IOVS, 53:5452-5461, 2012.

IReST texts are available on Metrovision's MonPackONE and MonCv3 devices. 4 letter sizes are available, corresponding to visual acuities of 0.08 - 0.13 - 0.17 and 0.26.

The luminance of the texts can be configured on MonPackONE devices.

Metrovision eye tracking system

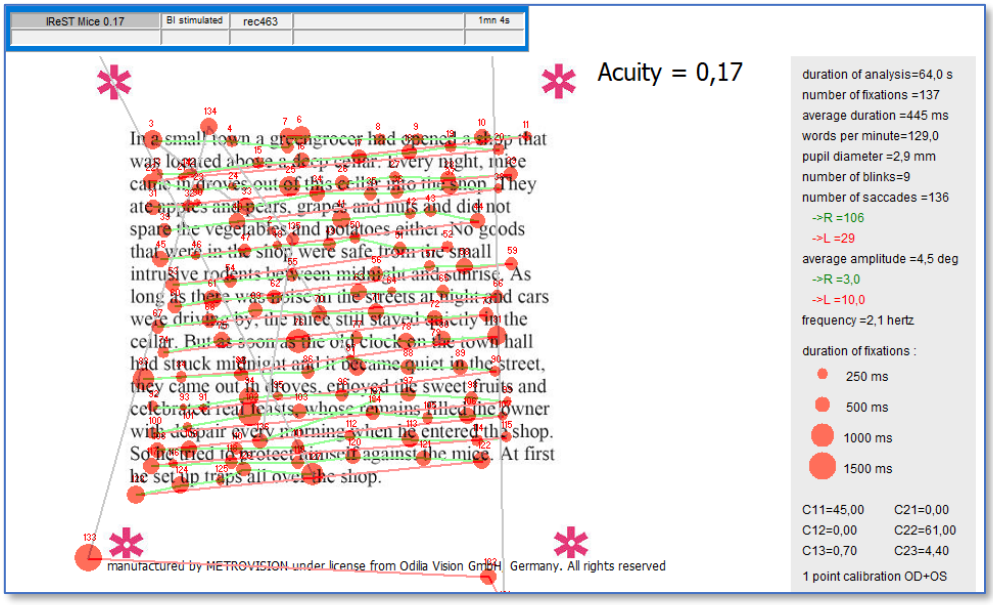
The eye movements are recorded using the video oculographic technique developed by Metrovision: A near infrared eye movement sensor allows simultaneous recording of both eyes.

A reflective dot is used to measure the movements of the head and it is the position of the pupils in relation to this patch that makes it possible to determine the movements of the eyes.
The main advantage of this technique is that it is relatively insensitive to stray reflections (tears, corrective lenses, etc.) and allows the measurement of large amplitude movements

Two versions of this sensor are available: the "standard" version at 30 images per second and the "high speed" version up to 200 images per second.

Automated result analysis

Quantitative analysis of the results provides not only reading speed (number of words per minute), but also fixation duration and saccade amplitudes.



For more information:
mail : contact@metrovision.com
tel : 03 20 17 19 56