

LANG-STEREOTEST® I-R / II-R

Intended use and main features

LANG-STEREOTESTS® are orthoptic products for binocular diagnostics and screening of disorders of stereoscopic vision in adults and children, for medical professionals.

The LANG-STEREOTESTS® I-R (Ref 103) and II-R (Ref 104) are used for rapid screening of stereopsis vision in all age groups from 6 months of age. Since loss of stereopsis is considered a key symptom of amblyopia (lazy eye), failure to recognise random dot stereograms may indicate a previously undetected, treatable disorder of binocularity (e.g., microstrabismus, anisometropia). LANG-STEREOTESTS® have proven to be highly specific and highly sensitive for stereo vision. Thanks to the unique combination of random dots and a lenticular lens, no special glasses are needed, and the eye movements of the subject may be easily observed.

3D Objects and Disparities

LANG-STEREOTEST® I-R	LANG-STEREOTEST® II-R
CAT 1200"	ELEPHANT 600"
STAR 600"	TRUCK 400"
CAR 400"	MOON 200", STAR 200" (2D visible)

Results of Screening

Positive: Correctly naming or pointing all test figures. The eye movement pattern describes a triangle in the LANG-STEREO-TEST® I-R and a quadrilateral in the LANG-STEREOTEST® II-R. -> No further examination required.

Negative: No 3D object can be detected. Eyes are scanning the test plate and then shift away from it. -> Refer patient to orthoptic eye specialist for further examination of stereoscopic vision and visual acuity.

Doubtful: One or more objects may be localized but are not being identified correctly. Eyes are scanning the test plate. -> Repeat test after break, without giving suggestions. -> Refer patient to orthoptic eye specialist for further examination of stereoscopic vision and visual acuity.

Examination (see also diagram on the back of the test)

- Make sure the subject is wearing his/her corrective glasses or reading glasses (if necessary).
- Avoid reflections from lamps or windows.
- Do not hand the test card to the subject. The latter may find the optimal viewing position by slight head movements.
- Hold the test card vertically at a reading distance of 30-40cm.
- Avoid moving or wiggling the test card during the test.
- Ask, "Can you see anything?" Refrain from giving help, asking suggestive questions, or mentioning the 3D objects.
- Observe the subject's eye movements.

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Refining the examination

- a. If the subject already knows the 3D objects, use the test card upside down or show two tests, one in horizontal and one in vertical position where the 3D objects disappear.
- b. Switch to the other version of the LANG-STEREOTEST® when retesting or use the LANG-STEREOPAD® for more in-depth testing (for the preferential looking method or the stereo threshold).
- c. To confirm a positive result, have the subject close one eye while looking at the 3D objects. The test figures must disappear during this process.

Important note

LANG-STEREOTESTS® are not a substitute for a visual acuity test or a specialist examination. A positive screening result only indicates the presence of random dot stereoscopic vision (global stereopsis) but does not exclude other visual disorders. A negative screening result alone does not prove a visual disorder. Users must therefore be well acquainted with the test.

The revised test versions (-R) have improved print and image quality compared to the previous versions LANG-STEREOTEST® I and LANG-STEREOTEST® II. On the back of the test there are brief instructions and a schematic drawing for correct use.

Care, Storage and Warning Notices

- d. Store the test in the case provided.
- e. Please check functionality before each use. Exposing the test card to heat or sunlight may cause deformation and render the test card unusable.
- f. Clean the test with a dry or slightly damp cloth. Liquids can dissolve the back of the card. Serious incidents must be reported to the manufacturer and the competent authority.

Further Information

For scientific literature, instructions for use in other languages and for worldwide distributors, refer to

www.lang-stereotest.com



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