

# 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)

- a. Make sure the subject is wearing his/her corrective glasses or reading glasses (if necessary).
- b. Avoid reflections from lamps or windows.
- c. Do not hand the test card to the subject. The latter may find the optimal viewing position by slight head movements.
- d. Hold the test card vertically at a reading distance of 30-40cm.
- e. Avoid moving or wiggling the test card during the examination.
- f. Ask 1. Can you see anything? 2. What? Refrain from giving help, suggestive questions, showing or mentioning the 3D objects.
- g. 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](http://www.lang-stereotest.com)



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