

LANG-STEREOTEST

Brief Instructions

The LANG-STEREOTEST is an easy-to-use screening-test designed for early detection of problems with stereoscopic vision in children. Two versions of the test plates are available, which differ only according to the 3D objects to be recognized. The LANG-STEREOTEST I displays a star, a cat and a car, while the LANG-STEREOTEST II displays a moon, a truck and an elephant, each of them appearing on a different level. In addition, the LANG-STEREOTEST II contains a star that can be seen with only one eye.

Note: the LANG-STEREOTEST does not measure visual acuity and does not substitute for an ophthalmologic examination. A negative test result indicates only a lack of stereoscopic vision at the time of examination.

Examination of children:

1. Position yourself in front of the examinee, so that you can easily observe his/her eye movements.
2. Show the test plate exactly at right angles at a distance of about 40 cm (16 inches).
3. Ask the child if he/she sees something on the plate and watch the searching movements of his/her eyes.
4. When a 3D object has been detected, ask the child to look for additional objects and also to describe them. The examinee may then also point at the figures and should be able to tell which of them sticks out most.

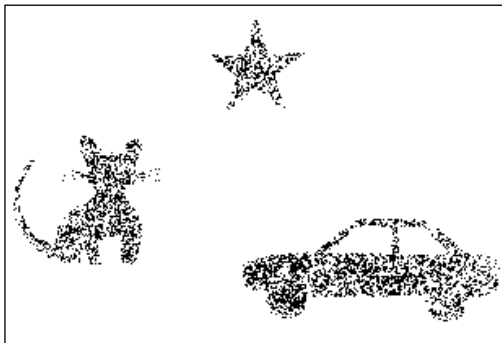
LANG-STEREOTEST

Stereoscopic clues of the two versions

LANG-STEREOTEST I

Disparities:

Car: 550"
Star: 600"
Cat: 1200"

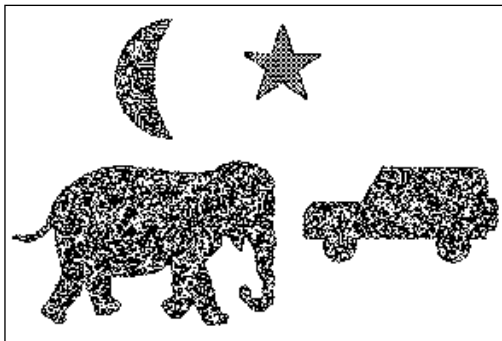


LANG-STEREOTEST II

Disparities:

Moon: 200"
Truck: 400"
Elephant: 600"

(Star always visible)



Results:

1. **Positive:** Correct localization and naming of all hidden objects, typically jumping eye movements from one object to the next. **No further examination of stereoscopic vision is needed.**
2. **Negative:** no object can be detected, and eye movements also do not indicate the recognition of the 3D objects. Eyes are scanning the test plate and then shift away from it. **Refer family to specialist for further examination of stereoscopic vision and visual acuity.**
3. **Doubtful:** only one hidden object is localized and named correctly, eyes are scanning the plate for objects. **Refer to specialist for further examination of stereoscopic vision and visual acuity.**

Refining the examination:

1. **The child already knows the correct results and might try to cheat.** Use the test card upside-down or use two tests, one in the correct horizontal position, the other one in a vertical position in which the 3D objects cannot be detected. Change between versions of LANG-STEREOTEST when retesting.
2. **To confirm a positive result,** ask the person to close one eye while looking at the stereoscopic figures. Immediate disappearance of the figures will be noted.

Further recommendations:

1. Do not let the examinee hold the test card in order to prevent flip-flop-movements. The child may be permitted however, to adjust to the best viewing position by small movements of the head.
2. Do not try to help the examinee by suggesting what he/she might recognize. Continue to observe the child's eye movements while performing the task.
3. Do not expose the test card to heat or sunlight, which may cause deformation. If it has been deformed convexly, not all 3D objects may be seen simultaneously.

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