



RANDOM DOT



DEPTH PERCEPTION TEST

TECHNICAL MANUAL



Vision
Assessment
Corporation

P/N 101550



Thank you for purchasing the Vision Assessment Corporation Random Dot E Depth Perception Test P/N 1015.

PURPOSE

This test is designed to rapidly test for amblyopia and strabismus using stereopsis (depth perception) in early & non-readers and non-verbal children & adults. When wearing the polarized viewers, an individual with normal depth perception should be able to correctly identify the Raised letter E.

Depth Perception: (n) The ability to perceive spatial relationships, especially distances between objects, and three dimensions.

FAMILIARIZE YOURSELF WITH THE TEST

Test consists of:

- 3 cards (back of cards shown below)
- 1 pair pediatric polarized viewers
(NOT TO BE USED AS SUNGLASSES)
- 1 pair adult polarized viewers
(NOT TO BE USED AS SUNGLASSES)

1. Put on the adult polarized viewers (over prescription glasses if worn).
2. View the front side of the **MODEL E** card.
3. View the fronts of the **BLANK** card and **RAISED E** card.
4. Identify which card has the **Raised Letter E** as seen on the front of the **MODEL E** card (Someone with normal stereopsis should be able to identify the Raised E).
5. Still wearing the viewers, cover one eye and note how the **Raised E** disappears – this is how the test subject will view the card if unable to see the **Raised E**.

TESTING CONDITIONS

Well-lit, glare-free area. If reflections or glare on the cards can be seen, try tilting the cards or choose another testing location.

ADMINISTERING THE TEST

Place the pediatric polarized viewers on the test subject.

PLEASE NOTE: IF TEST SUBJECT WEARS PRESCRIPTION GLASSES, THE POLARIZED VIEWERS SHOULD BE WORN OVER GLASSES.

Show the test subject the front of the MODEL E Card and ask the test subject to identify the figure.

If the test subject does not know the letter E or has difficulty naming the image, have the test subject trace the image with his/her finger.

At 50 cm (20 in) from the test subject hold up both the BLANK card and the RAISED E Card (front of cards facing test subject).

Ask the test subject to point to which card has the "E".

Put the BLANK card and RAISED E card behind your back and exchange the cards in each hand.

Show the test subject the cards again asking him/her to again point to the card with the letter E.

Repeat last 2 steps at least 4 times (do not exchange the cards every time so that the test subject can not predict which hand holds the card with the Raised E).

Now move the cards 1 meter (40 in) from the test subject and repeat the process above at least 4 times.

INTERPRITING THE RESULTS

Any test subject who is either unable to consistently identify the Raised E or only able to identify the Raised E at 50 cm (20 in) or closer should be referred to an eye doctor for further testing.

STEREOACUITY THRESHOLDS

The greater the distance that the test subject is away from the card and can correctly identify the Raised E, the better the patient's stereopsis. *See chart below*

DISTANCE	DISPARITY	DISTANCE	DISPARITY
50 cm	504"	6 ft	138"
100 cm	252"	7 ft	118"
150 cm	168"	8 ft	103"
200 cm	126"	9 ft	92"
300 cm	84"	10 ft	83"
400 cm	63"	11 ft	75"
500 cm	50"	12 ft	69"
2 ft	413"	13 ft	63"
3 ft	275"	14 ft	60"
4 ft	206"	15 ft	55"
5 ft	165"	16 ft	52"

CARE/HANDLING & STORAGE

Clean with a soft, damp lint-free cloth. Store in a cool, dry place away from direct sunlight.

WARRANTY

1 year manufacturer warranty from date of purchase.



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