

HOTV Wide Spaced Distance Chart

Part Number: 600004



HOTV as objects by Dr. Otto Lippmann

This test set consists of the following parts:

1. 9 in. x 14 in. HOTV test chart for 10 feet testing distance.
2. HOTV response panel.
3. 6 in. x 14 in. handheld linear mask with 1 in. x 4.5 in. slot.
4. 6 in. x 14 in. handheld isolating mask with 1 in. square hole.

Testing Procedure

The HOTV matching method will determine the visual acuity more accurately and at a younger age than many other tests. It is accurate because four actual optotypes are used as matching objects. Children will learn to match them as readily as squares, triangles, etc. Because they are the same optotypes used by eye care professionals, they give meaningful results. Frequently children younger than 3 years and many handicapped can be tested.

The first step is to familiarize the child with the four optotypes (HOTV). This best done by holding the response panel a few feet away from the child and have them point to the desired optotype. Several children can be familiarized at the same time. This step usually requires only a minute or two at most. Generally a verbal response is discouraged unless the child can easily and consistently name the optotypes. Once confidence in matching is established, move to the test chart.

For the actual test the child is placed 10 feet from the test chart. The test chart should be 4 to 6 feet from the floor. Proper illumination is critical for accurate and consistent testing.

- Use large optotypes on the test chart to gain the child's confidence.
- Point to the first optotype in each line in descending order.
- Move down until the child hesitates or misidentifies an optotype.
- Move back up one line and ask the child to identify all the optotypes on that line.
- If the child identifies all optotypes correctly go to the next line

with smaller optotypes and ask the child to identify all optotypes on the line.

- If the child skips an optotype ask the child to try again while briefly pointing to that optotype.
- A child with an amblyopic eye may typically skip an optotype within a line of objects.
- Visual acuity is recorded as the last line on which at least 4 of the 6 symbols are identified correctly.
- Many lines have less than 6 optotypes making repeating previously shown optotypes necessary.

The supplied handheld masks may be used to present a line at a time or an object at a time. When isolating an optotype at a time an amblyopic eye will do much better than when presented with a line of optotypes. The masks are to be held horizontally in front of the chart to isolate a line or a single optotype. The mask with the rectangular slot (1 in. x 4.5 in.) is used to present a line at a time from the 10/25 (20/50) size or smaller. The mask with the smaller square hole (1 in.) is used to isolate optotypes 10/25 (20/50) or smaller.

