10ft and 20ft HOTV Test Set Guide

HOTV as objects by Dr. Otto Lippmann

This test set consists of the following parts:

1. HOTV test chart for 10 or 20 feet testing distance.

2. HOTV response panel.

Guide

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 is best done by holding the response panel a few feet in front of the child and having the child point to the letter that you called out. 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 (or 20 feet, depending on chart used) 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 optotype within a line of objects.

- Visual acuity is recorded as the last line on which over 50% (3 of 5, 4 of 6) of the symbols are identified correctly.

- Many lines have less than 6 optotypes making repeating previously shown optotypes necessary.

TEST CHART

TEST CHART SHOULD BE 4 TO 6 FEET FROM FLOOR

TEN FEET
OR
TWENTY FEET

CHILD