

SureSight Vision Screener

What Are You Testing?

The Welch Allyn SureSight is a screening autorefractor that identifies nearsightedness, farsightedness, astigmatism and mean spherical difference for anisometropia.

What You Need to Do the Test:

1. Welch Allyn SureSight Vision Screener.
2. Printer for SureSight.
3. Paper for printer.
4. Double A (AA) batteries for printer.
5. A/C adaptor.
6. Tape for attaching printout to data form.
7. A dimly lit room without sunlight.

Getting Ready (First Time Setup):

1. Using 1/8 measuring increments:

Open the battery compartment. Turn the lever and remove the battery.

View DIP switches inside the battery compartment located on the bottom side of the unit. Identify switch #3 (from right side). Using tweezers or a paper clip, pull the third switch up towards the bottom of the SureSight.

2. If the instrument requires further calibration, a circle with the "cal" will appear on the bottom of the display screen. If this occurs, do NOT continue using the instrument. Contact Welch Allyn at 1-800- 535-6663 or www.welchallyn.com/medical/support/warranty.

How You Do The Test:

1. Turn the instrument on by pushing any button.
2. Have the child sit/stand with his/her back against a chair/wall.
3. Assure that the SureSight instrument is set on "Child" mode. When set correctly, a picture of a small child will be displayed on the screen (in bottom left). If it set on "Adult" mode, press the child/adult picture button.
4. Position yourself at eye level to the child, facing the child straight on.
5. Push the "go" button. Direct the child's attention to the flashing green lights/red central light by saying "I am going to take a movie of your eyes." "Look at the red light in the camera."
6. Position the SureSight instrument at approximately 14 inches from the child.

If you are positioned too far away, you will hear slow low-pitched noises. Slowly move the instrument closer to the child.

When you are at the correct distance you will hear a steady low tone. If you don't also hear chirps, swirl the instrument slightly within the pupil area.

If you are too close to the child, you will hear a quick high-pitched beep.

7. When the distance is correct, look through the peephole and aim the cross target on the center of the pupil (black area of the eye) of the right eye. While the measurements are being collected, the instrument will make a high-pitched noise (chirping). A low steady tone occurs when measurements are completed.
8. When testing of the right eye is complete, you will hear a sound of "tah-dah."
9. Keep the same working distance. Turn yourself and the SureSight toward the left eye. Align the cross target over the left pupil. Your working distance should be approximately 14 inches.
10. A "tah-dah" sound will appear when testing of the left eye is complete.
11. Aim the instrument at the printer and push the print button.
12. DO NOT TEAR THE PRINTOUT OFF OF THE PRINTER UNTIL TESTING IS COMPLETED.
13. Check to see if you need to retest one or both eyes.

14. Retest an eye if:
 - a. The confidence number (located on the upper right side of the display) is less than six.
 - b. An asterisk appears next to the reading for the eye's refractive error.
15. Retest both eyes if:
 - a. An asterisk appears next to the letter D on the display (which refers to difference between eyes).
16. A third test is needed if:
 - a. The confidence number is less than six on the second reading.
 - b. An asterisk appears on the first reading but NOT on the second reading.
17. You may test an eye up to three times.
18. To retest one eye, press the **R/L** button (softly). When the **R** is flashing, retest the right eye. When the **L** is flashing, retest the left eye. To start the retest, press the **Go** button.
19. To retest both eyes, press the **Go** button.
20. Print after the first test and after each retest, but do not tear off printer tape until all measurements for that child have been printed. Then tear off the printer tape and attach the printout to the data collection sheet.
21. NOTE: Attach printout by taping only at the top and bottom edges. Do not tape over any results.

What You Tell The Child:

1. Tell the child to sit very still.
2. Tell the child to look at the red light inside the green lights.
3. Tell the child to open his/her eyes wide "like you are surprised" and keep them open.

Any and all use of these documents should cite the following reference: The Vision in Preschoolers Study Group. Comparison of Preschool Vision Screening Tests as Administered by Licensed Eye Care Professionals in the Vision in Preschoolers Study. Ophthalmology 2004;111:637-650.

What You Write Down:

1. The unit automatically records and prints the measurements for you. Tape the printout to the data form **before** the child leaves the station.
2. Indicate the number of readings taken per eye in item #3a and 3b. If the child does not allow the machine to be positioned properly for measuring an eye, or if the machine does not provide a reading for an eye, mark "None (unable)" on the data sheet for that eye.

Remember!

1. Set the SureSight on "Child" mode.
2. Position the unit straight ahead and level with the child.
3. Rotate the unit to the left eye after the right eye measurement.
4. Remind the child to look at the red light.
5. If the confidence number is less than 6, retest that eye up to a total of three times.
6. If there is an asterisk, a retest is required.
7. You can test an eye a maximum of three times.
8. If there are no numerals on the display for any of the measurement attempts, "incomplete" should be marked for that eye. In addition, "instrument failure" should be written on the form.