

*A new
revolutionary vision screening device*



Spot

*Vision Screening
Camera*

A new revolutionary device



Catch it early, treat it early . . .

In a recent study by the Department of Health and Behavioral studies at Columbia University, early detection and treatment of vision disability needs to be priority number one.

Experts say that roughly 80 percent of what a child learns in school is information that is presented visually. So good vision is essential for students of all ages to reach their full academic potential. Also, a child with an undetected or untreated vision problem is more likely to develop social or emotional problems and fall behind in academic achievement. A child's vision problems can affect not only their own learning, but also, that of their peers. Fifty percent of behavior problems in schools are due to vision issues.

Early detection and treatment can lead to a lifetime vision changing experience.

After the age of 8 there are a number of vision issues which cannot be corrected.

The earlier a vision problem is detected and treated the more successful the treatment.

. . . but the Snellen Eye Chart doesn't do it!



For years, and continuing to this day, the Snellen Eye Chart has been used to measure visual acuity; how "sharply" we see letters from 20 feet away. This is only one of a battery of tests utilized by eye care professionals, and the primary chart used in pediatric vision screenings.

While the test is an industry standard it is:

- Very difficult to administer to small children
- Takes a considerable amount of time
- Is not fool proof
- Can be subjective
- Does not always catch all refractive error

There is a better way . . .

. . . the **Spot vision screening camera by Pediavision**. This device represents a breakthrough update to vision screening.



What is Spot?

Spot is a fast, portable, easy to use vision screening system designed to quickly detect several vision issues in children as early as 6 months to adults. The device captures in one second or less, which makes screening efficient and especially effective with young, non-verbal children.

The key is the unique integration of patent-pending optics and processing algorithms, making what was once complex, as simple as taking a photo.

How is it used?

The child simply sit down and look into the front of the camera, focusing their vision on its blinking red, amber and blue lights - a "chirping bird" auditory cue can also be used, to attract the attention of young children. It then takes the series of photos of the child's eyes using infrared light, all within no more than one second.

By analyzing those images, it is able to determine if their vision is "in range" or "out of range." Should a child fall into the "out" category, a screen on the device will instantaneously display the name of any likely problems.



How does it work?

Spot is a computer assisted Photorefractor or known as an autorefractor which uses low level infrared light to the retina, taking 23 camera shots of the eye in 1 second.

The measuring principle is based on photo-retinoscopy. From a distance of three feet (the camera lets the screener know if the distance is too far away or too close), an infrared light is projected through the pupils onto the retina. Depending on the refractive error, the reflected light forms a specific brightness pattern within the pupil. The assessment is non-invasive and the student feels nothing.

What can it detect?

Spot's sophisticated technology can quickly detect the indication of the following vision issues:

1. **Near-sightedness** (myopia)
2. **Far-sightedness** (hyperopia)
3. **Unequal refractive power** (anisometropia)
4. **Blurred vision, eye structure problem** (astigmatism)
5. **Pupil size deviations** (anisocoria)
6. **Eye misalignment** (strabismus)

In just seconds, Spot provides immediate, comprehensive, and reliable screening results. A one-page summary can be printed, allowing for further analysis and informed decision making about the need for a follow-up examination and treatment by an eye care professional.



Vision screening does not replace a complete eye examination by an ophthalmologist or optometrist.



Complete Eye Exam Recommended

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Vision Screening Summary

SUBJECT ID: 21

SCREENING: 05/11/2014 5:54 pm GENDER: M DOB: 12/22/2010

FIRST NAME: _____

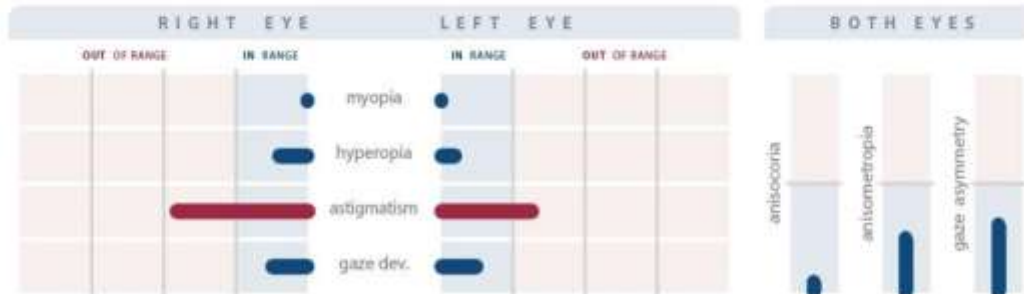
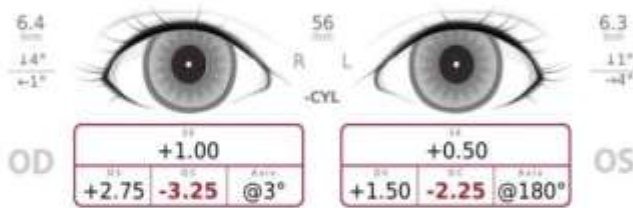
LAST NAME: _____



Vision screening should be conducted regularly as eyes may change over time.

POTENTIAL CONDITION

• Astigmatism (OD,OS) | problem focusing |



This vision screening project is co-sponsored by
The Lions Clubs International Foundation
and The Dyckesville Lions Club



"We Serve"

Vision screening does not replace a complete eye examination by an ophthalmologist or optometrist.



Screening Complete

Vision Screening Summary

SUBJECT ID 26

SCREENING 05/11/2014 6:31 pm GENDER F DOB 09/25/2008

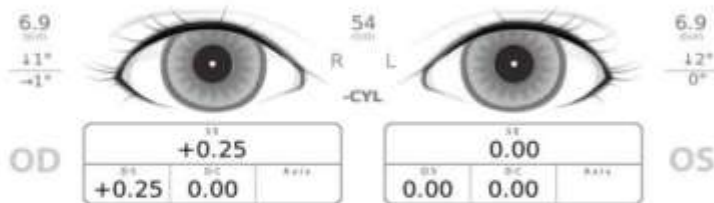
FIRST NAME

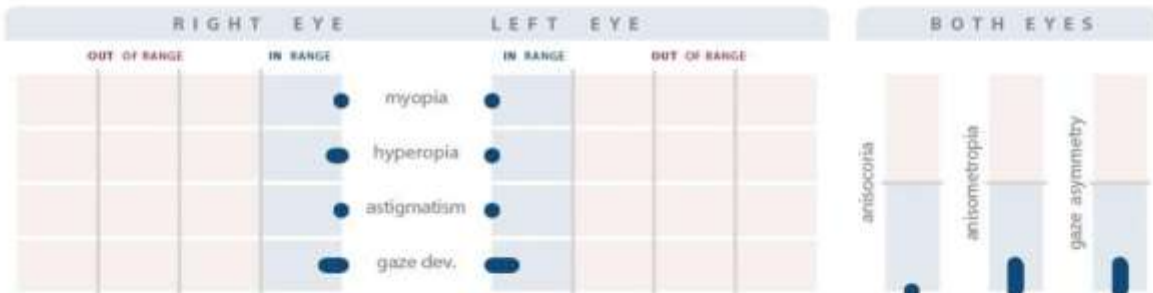
LAST NAME



Vision screening should be conducted regularly as eyes may change over time.

POTENTIAL CONDITION





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“We Serve”

Spot Design

If you can take a picture, you can use Spot. Spot looks and feels like a camera. The touch-screen display intuitively guides the screener and automatically captures the vision data at a rate of about 60 individuals per hour. Everything you need is contained within the device.

WiFi

Wirelessly print and transfer data when you're ready.

Data storage

Data can be easily stored and transferred to support various electronic records protocols.

On-the-go

Spot goes where you go with a battery that powers a full day of screening in one charge.

Light by design

Spot weighs about 2 ½ pounds, making it comfortable to screen groups of any size.

Facilitates a large-scale data analysis

A meaningful analytical can be printed to give information when a group of children is screened.



A leading developer of vision Screening technology, dedicated to solving the critical problem of undiagnosed vision problems and transforming the lives of children each day.

Endorsements

American Academy
of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN™

Large numbers of ophthalmologists and optometrist in the United States and around the world support the use of Spot by Pediavision as a non-invasive, objective, reliable screening device for children.

Thus, there are many Lions Clubs who are already enthusiastically using Spot for vision screening events. Other clubs are now in the process of discovering its benefits and are seeking to purchase one for use in their communities.

Testimonials

"With this new screening device, PediaVision has completely changed vision screenings. It's the difference between looking up at the moon and actually standing on the moon. That's how far PediaVision has taken us."

-- Optometrist

"The beauty of the new Spot device is we can screen any age group, because it doesn't require the patient to participate. With preverbal children, or those with handicaps, the eye chart doesn't work because the children can't talk. But with Spot vision, we can screen them for a multitude of potential problems, which is a great help."

-- School
Nurse

"We no longer have to wait for the children to reach a certain age so they can articulate what they are seeing on the eye chart."

-- Special Education Teacher

"Typically, a manual screening takes several minutes to check a child's vision, however Spot allows us to capture an accurate result in just a few seconds. It is a short process designed to get their attention with lights and sounds, making it easy for our team to use."

-- Lions Club Member & Visual Screener

"For kids, Spot is no different than picking up a digital camera, saying smile, and click they are done. And what happens in that one second is a full analysis of that child's vision without them even realizing what has just occurred."

-- Elementary School Principal

"Parents often tell me that they think Spot is great. Some parents have even asked if we can screen them, after watching us use Spot to screen their children."

-- Pediatrician