MEASUREMENT VALUES	S12C	S12R
Measurement Technology	Binocular infrared photorefraction with unique 54 LED illumination	
Measurement Range	-7.00 to +5.00 dpt in 0.25 dpt increments	
Pupil Size	4.0 to 8.0 mm in 0.1 mm increments	
Acquisition time	dynamic, in average 0.5 sec.	
Measuring distance	1 m ± 5 cm (3.3 ft ± 2 in)	
Fixation target	Warble sound and Smiley face	
Certifications	FDA (USA), Health Canada (Canada), CE (Europe)	
Standards	EN 60601 -1	
TECHNICAL DATA	**S12C**	**S12R**
Touchscreen operation	5.7 Inch (capacitive)	4.3 Inch (resistive)
Weight	1.0 kg (35.3 oz)	0.8 kg (28.2 oz)
Interfaces	2x USB, IR, SD WLAN	-
Power supply	6x rechargeable AA batteries	
Voltage / Frequency	100 - 120 V / 220 - 240 VAC / 50 - 60 Hz	

DEVICE VERSIONS

reddot award 2014 winner

plusoptiX S12C

plusoptiX S12R

Optional items
- Carrying case
- Wireless IR printer plusoptiX P12

CONTACT

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SCHÖN

plusoptiX

VISION SCREENER
since 2001

made in Germany

Accurate | Award-winning | Reliable | Compatible

APPLICATION

The purpose of a Plusoptix Vision Screener is to empower primary health care providers to detect most prevalent vision disorders in children as early as possible. The earlier a vision disorder is detected the better it can be treated, and Amblyopia, i.e. a lazy eye, can be prevented. Both eyes are measured simultaneously from one meter (i.e. 3.3 feet) away in less than one second. Measurement results are compared to age specific thresholds and a "Pass" or "Refer" vision screening result is displayed, immediately. Children with a "Refer" vision screening result need to be sent to an eye care professional for a follow-up eye examination.

Features include:
- Simultaneous measurement of both eyes
- 1 meter (3.3 feet) working distance ±5cm (±2 in)
- 0.5 second acquisition time
- Analysis of Hyperopia, Myopia, Astigmatism, Anisometropia, Anisocoria, and Eye alignment
- Instant "Pass" or "Refer" vision screening result
- Full refraction recording, i.e. sphere, cylinder, and axis for follow-up eye examination

Plusoptix Vision Screening is recommended by 2016 AAP Policy statement "Visual System Assessment in Infants, Children, and Young Adults by Pediatricians".

ACCURATE

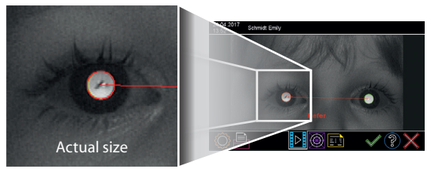
In photorefraction, measurement results are derived from brightness patterns in the pupil in a similar manner as in retinoscopy. Therefore three components are key to an accurate measurement:

Optimal illumination
Plusoptix devices use a unique 54 LED strong flashlight. This optimally illuminates the pupil.

Accurate measurement algorithm
Numerous peer-reviewed clinical studies validate that Plusoptix Vision Screeners consistently deliver highly accurate refraction recordings.

Plusoptix Vision Screeners take measurements automatically, but only if measurement prerequisites (i.e. distance, pupil size and eye alignment) are being met. Therefore measurements are always accurate, and never need to be repeated.

High-resolution camera
The quality of a Plusoptix photo is not limited to simply derive refractive recordings. It enables an experienced user to identify media opacities within the pupil.



AWARD-WINNING

Plusoptix Vision Screeners have been awarded for their child-friendly appearance. The iconic smiley face and the attention grabbing warble sound attract an infant's attention and lessen fears about the measurement.

reddot award 2014
winner

"The friendly appearance of this auto refractometer instills trust and encourages children to get involved in the examination in a playful way."
(RedDot Award Jury)

GERMAN DESIGN AWARD WINNER 2017

"A lovely tool that takes focuses not only on technology and ergonomics in its design, but also the needs of the child being treated."
(GermanDesignAward Jury)

RELIABLE

The hardware design of Plusoptix Vision Screeners is striving for safety, ergonomics, and reliability. Plusoptix Vision Screeners meet all relevant standards as a medical device, and have passed independent testing. At Plusoptix guaranteeing the safety of patients and users is our main priority.

Main characteristics of the ergonomic design of Plusoptix Vision Screeners are a lightweight, but sturdy design, a solid handhold for a secure grip, and a tilted touch screen for a comfortable posture of the head.

The latest Plusoptix Vision Screeners have no moving parts, and therefore no physical wear and tear. They neither need to be serviced nor to be calibrated. Mobile models are using standard AA size, rechargeable batteries that are easy to access, and inexpensive to exchange.

COMPATIBLE

A seamless integration of new equipment in the existing workflow is crucial. Therefore, Plusoptix offers mobile and stationary models to choose from, and measurements can be documented on paper, or electronically.

Mobile models "plusoptiX S12C", and "plusoptiX S12R" both run on rechargeable, standard AA size batteries. In case they run out of battery power, they are operational while charging. The model „plusoptiX S12C" can be connected to a computer network (WLAN), for a full integration with an Electronic Medical Record System (i.e. automated patient data import, and readings export). Once connected, letter size measurement reports can be printed on any already existing network printer, or PDF files can be manually attached to electronic patient files. For paper files, self-adhesive labels can be printed with optional wireless label printer "plusoptiX P12".

Basically "plusoptiX S12R" offers the same documentation features as "plusoptiX S12C". If a WLAN connection to a computer network is not required, "plusoptiX S12R" is an inexpensive alternative to consider.

Patient's name or ID		*06/24/2015
OD	Refer	OS
+0,75 dpt	Sphere	+0.25 dpt
-0,75 dpt	Cylinder	-2.25 dpt
176°	Axis	87°
5.8 mm	Ø pupil	4.5 mm
Pupil distance		56 mm
Gaze asymmetry		7.6 °
ROC 1, Ver. 7.0.4.0		01/31/2018

This refraction was measured with Plusoptix.
plusoptix.com
www.plusoptix.com