




The Vision Screener

# How to read the printout

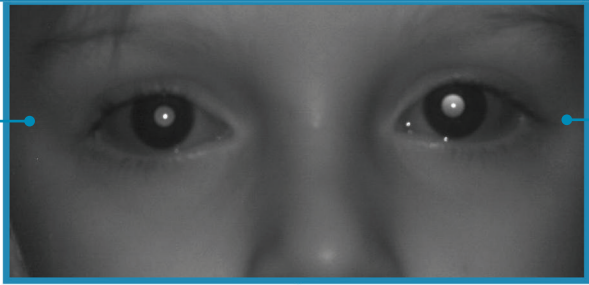
2WIN measurements can be stored and/or printed. The exams are stored internally in a micro-SD card in .pdf format.

**Exam Report** 

Exam Date: \_\_\_\_\_  
 Exam N: \_\_\_\_\_

Right Eye

**OD**



Left Eye

**OS**

Sph	Cyl	Ax	Sph	Cyl	Ax
<b>-0.50</b>	<b>0.00</b>	<b>0°</b>	<b>-4.25</b>	<b>-0.50</b>	<b>145°</b>

**SE: -0.50**      **Reliability: 8**

Info:

Pupil Size: 4.4 mm

Gaze: 3.2° ← 0.8° ↓

Pupil Distance: 54 mm

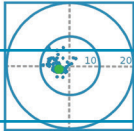

**SE: -4.50**      **Reliability: 8**

Info:

Pupil Size: 4.8 mm

Gaze: 0.1° → 0.1° ↓

Head Tilt: -0.8° ↘

Criteria for:	0 - 2,5 yrs	OK <span style="color: green;">←</span> <span style="color: red;">→</span> NOT OK	Outcome
Hyperopia	Sph < 40		✓
Myopia	Sph < 30		✗
Astigmatism	Cyl < 30		✓
Anisometropia	Diff < 1250		✗
Anisocoria	Diff < 1mm		✓
Gaze	< 4.6°		✓

Signature: \_\_\_\_\_

**Screening Result: Refer**

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# 2WIN: The Binocular Vision Screener

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2WIN is a binocular vision screener that measures both eyes at the same time in real life vision conditions. It embodies the best and the most complete technologies to fully detect refractive errors, eye abnormalities and vision problems.



## Everyone

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2WIN allows to perform objective refraction of adults, children from 2 months age, seniors, impaired and non-cooperative patients. It works at 1m of distance from the patient, thus no direct contact is needed between the patient and the device. 2WIN, thanks to an advanced accommodation correction technology, doesn't require any cycloplegic drugs. This allows a faster and more precise objective refraction, especially for kids and toddlers.

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In our experience 2WIN, housing in Alaska and in a remote Burma clinic, showed that this photoscreener yields refractive estimates very comparable to state-of-the-art Retinomax hand-held autorefractor. It is sturdy, reliable and provides valid early objective screening that will reduce amblyopia blindness for the program that uses it.

~ Dr. Robert Arnold (Paediatric Ophthalmologist)



# Additional features

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## CR-App

Thanks to the “Analysis of Corneal Reflexes”, the 2WIN can help your daily work by automating the analysis of refraction with a documented information of phorias and tropias (horizontal and vertical). The CR-App compares the position of the corneal reflexes in three different measurements (the first binocular, the second and the third monocular under an infrared occluder).



## 66cm-App

Thanks to the 2WIN application “Intermediate Vision”, it is possible to identify the difficulties in focusing at VDUs Distance and estimating the related additional power.

The 2WIN measures the patient's refraction while reading from VDUs, at a distance of 66 cm (26").

In all those cases when reading at such distance proves difficult, the 2WIN calculates the necessary additional power (ADD) to restore the best vision.

## LC-App

This feature allows to accurately center spectacle lenses with reference to the far sight optical axis of the eyes. The Lens Centering application can give information about: semi inter-pupillary distance, distance between the optic axis and the upper or lower limit of the frame, distances between the optic axis and the corresponding nose pad.



## Zoom

The 2WIN Zoom function helps to detect infrared artifacts due to other eye abnormalities (opacities, foreign bodies etc.). This function allows you to get an automatic zoom of InfraRed exam to accurately inspect it.

## DP-App

Automatic measurement of dynamic pupil response to programmable light stimulations enables the detection of subtle pupillary changes, removing subjectivity from the pupillary evaluation.



# Accessory

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## 2WINNY Kit

2WINNY kit is designed to draw childrens attention through a specific shape and colour, according to their age and capabilities. Insert the mask in front of the 2WIN, in order to make the measurement more attractive and fun for your little patients.

Each 2WINNY KIT contains: 3 double-faced masks with 6 different animals, 2 tumbling E for kids' VA test, 1 door advertising sticker and 25 stickers for each animal that can be a gift to kids after the exam!



# The New Soft Bag

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The new innovation for 2WIN is the soft bag from the renowned Italian brand Piquadro. It is lightweight and easy to handle, making the transportation of 2WIN more practical than ever. The modern and elegant design makes it the perfect accessory for professionals who want to combine comfort and style. With the new optimized packaging shipping costs are reduced, while ensuring maximum protection for 2WIN thanks to the internal foam.



# Technical Information

• <b>Operating Mode:</b> Binocular / monocular	• <b>Working Distance:</b> 1 m $\pm$ 5 cm
• <b>Refraction Measurement:</b> Automatic	• <b>Data Interface:</b> Wi-Fi, USB, MicroSD Card
• <b>Sphere Range:</b> $\pm 15$ D; in the range $\pm 7$ D, step 0.25 D from $\pm 7$ D to $\pm 15$ D, step 0.50 D	• <b>Printer Interface:</b> Bluetooth, USB, infrared (irida), Wi-Fi
• <b>Cylinder Range:</b> +5, -5 D, step da 0.25 D	• <b>Power:</b> Rechargeable battery
• <b>Cylinder Axis:</b> 1° – 180°, step 1°	• <b>Battery Charger:</b> 110-220 Vac, 0.5 A
• <b>Pupil Size:</b> Automatic detection, 4-11 mm, step 0.1 mm	• <b>Size:</b> 165x130x98mm
• <b>Pupil Distance:</b> Automatic detection, 30-120 mm, step 0.1 mm	• <b>Display:</b> 3.5"
• <b>Fixation Target:</b> Built-in	• <b>Weight:</b> 840 g (30 oz)
• <b>Acoustic Target:</b> Built-in	• <b>Accessories:</b> Supplementary battery, battery-charger, soft bag, binocular Infrared occluder
• <b>Measurement:</b> Contactless. Patient at 1 m	• <b>Medical Plastics:</b> Cleanable and hygienically safe
• <b>Charging Time:</b> Approximately 3 hours	• <b>Minimum Battery Life:</b> Approximately 5 hours



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