



The Vision Screener

2WIN: The Binocular Vision Screener

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

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 requires no cycloplegic drugs, which 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 (Pediatric Ophthalmologist)

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
-0.50	0.00	0°	-4.25	-0.50	145°

Spherical Equivalent

SE: -0.50 Reliability: 8

Info:

Pupil Size: 4.4 mm

Gaze: 3.2° ← 0.8° ↓

Pupil Distance: 54 mm

Index of Reliability

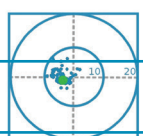
SE: -4.50 Reliability: 8

Info:

Pupil Size: 4.8 mm

Gaze: 0.1° → 0.1° ↓

Head Tilt: -0.8° ↘




Exam Date

Left Eye

Sphere Cylinder Axis

Index of Reliability

Pupil Size

Fixation Plot

Years and Outcome

Screening Result

Refer to Doctor

Criteria for:	0 - 2,5 yrs	OK ← → NOT OK	Outcome
Hyperopia	Sph < 4D		✓
Myopia	Sph < 3D		✗
Astigmatism	Cyl < 3D		✓
Anisometropia	Diff < 1.25D		✗
Anisocoria	Diff < 1mm		✓
Gaze	< 4.6°		✓

Criteria

Dr's signature

Signature:

Screening Result: Refer

Adaptica
www.adaptica.com

Additional features

CR-App

Thanks to the analysis of corneal reflexes, 2WIN can help your daily work by automating the detection of ocular misalignments. 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), giving a documented information of phorias and tropias (horizontal and vertical).



66cm-App

With 2WIN application "Intermediate Vision", it is possible to identify difficulties focusing at VDU distance and estimate 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 optical axis and the upper or lower limit of the frame, distances between the optical axis and the corresponding nose pad.



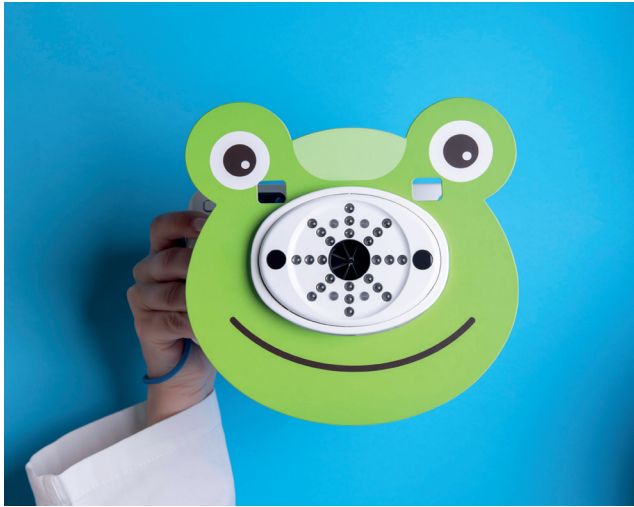
Zoom

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

DP-App

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

Accessory



2WINNY Kit

Designed specifically to capture the attention of young patients, the 2WINNY Kit uses vibrant shapes and playful colors to keep children focused. Simply clip a mask onto your 2WIN to create a welcoming, kid-friendly experience.

What's Included: 3 double-sided masks featuring cheerful animal designs, 2 tumbling E targets for accurate pediatric visual acuity (VA) assessments and post-exam rewards: 150 fun animal stickers (25 per character) to celebrate a successful exam!



The New Soft Bag

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



Technical Information

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



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