



KALEIDOS

First and unique light independent Vision Screener



## Binocular Vision Screener

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2WIN-S detects refractive errors such as myopia, hyperopia, astigmatism and other sight anomalies. This procedure is performed binocularly, in real life vision conditions.

## Portable and light independent

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2WIN-S, thanks to a small and practical suitcase, can be transported everywhere. Kaleidos tube serves as a portable dark room for the device, allowing refractive examinations in any environment and light condition.





## Fast and accurate

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Binocular objective refraction only takes 3 seconds using 2WIN-S. The measurement is fully automated and the accuracy of each examination is automatically checked by the device.

## Un-aided refraction

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2WIN-S is controlled via tablet through a user-friendly application. The device allows to delegate measurements to your collaborator and it gives its top performance in screening programs of large populations.

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2WIN-S refractometer allows simultaneous evaluation of refraction and binocular cooperation of subjects in natural (without cycloplegia) and not dissociating conditions, as opposite to autorefractometers, which only work monocularly.

2WIN-S is an indispensable device for amblyogenic risk factors screening (refractive errors, dioptric means opacity, strabismus), especially in pre-scholar children.

~ Dr. Mario Angi (Ophthalmologist)

# Technical Information

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| • <b>Operating mode:</b> Binocular/monocular  | • <b>User Interface:</b> Android application for tablets, providing remote control, live streaming, data management |
| • <b>Refraction Measurement:</b> Automatic  | • <b>Data Interface:</b> Wi-Fi, internal microSD card & Bluetooth   |
| • <b>Sphere range:</b> $\pm 15$ D; in the range $\pm 7$ D, step 0.25 D<br>from $\pm 7$ D to $\pm 15$ D, step 0.50 D | • <b>Tablet Printer Interface:</b> Bluetooth, Wi-Fi and email printing  |
| • <b>Cylinder range:</b> $\pm 5$ D, step 0.25 D   | • <b>Tube Size:</b> 119 x 23 x 15 cm  |
| • <b>Cylinder axis:</b> $1^\circ - 180^\circ$ , step $1^\circ$  | • <b>Metal Stand Size:</b> 45 x 32 x 21,5 cm  |
| • <b>Pupil size:</b> Automatic detection, 4-11 mm, step 0.1 mm  | • <b>Max height operation system:</b> 130 cm  |
| • <b>Pupil distance:</b> Automatic detection, 30-120 mm, step 0.1 mm  | • <b>Net Weight:</b> 5,5 kg   |
| • <b>Fixation target:</b> Built-in  | • <b>Power:</b> Rechargeable battery pack, 50 Wh  |
| • <b>Acoustic target:</b> Built-in  | • <b>Battery Charge:</b> AC/DC medical power supply 18V, 40 W   |
| • <b>Measurement:</b> Patient - Operator distance > 1 m   | • <b>Hygienical Disposable Masks:</b> Included  |



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