



Mobile Wireless Refraction System



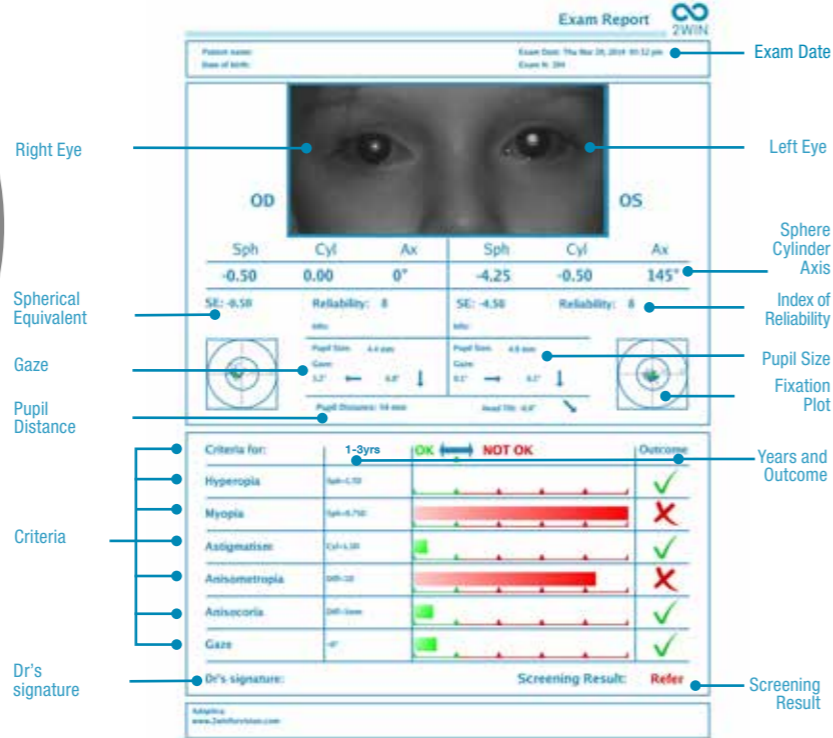
Binocular Mobile Refractometer
and Vision Analyzer



Wearable Wireless Adaptive
Refractor



2WIN Binocular Mobile Refractometer and Vision Analyzer



BENEFITS

- Measurement of binocular objective refraction also with glasses or contact lenses.
- Refraction of infants and children from 2 months of age, seniors, impaired and non-cooperative patients.
- Early detection and documentation of multiple amblyogenic factors.
- Objective measurement of sight anomalies that may be related to anisometropia, anisocoria, strabismus, phoria (software optional).

MAIN APPLICATIONS

- Refractive errors - Myopia, hyperopia, astigmatism and other amblyogenic factors.
- Sight anomalies that may be related to anisometropia, anisocoria, strabismus, phoria.
- Pupil parameters - pupil size, pupil distance and head tilt.
- Dynamic Pupillometry: automatic measurement of dynamic pupils response through the use of programmable light stimulations.
- Lens Centering: accurately centering of spectacle lenses with reference to the far sight optical axis of the eyes

HOW IT WORKS

- Binocular refraction measurement in natural vision conditions.
- The 2WIN measurement principle is eccentric photo-retinoscopy.
- Non-invasive.
- Hi-tech.
- Ease of use.
- Rapid measurement.
- Mobile



VisionFit SC Wearable Wireless Adaptive Refractor



BENEFITS

- Wearable and mobile - it fits comfortably on the head of the patient.
- Subjective refraction can be performed with the patient in his/her usual working environment and posture.
- Small footprint and reduced exam time.
- Increases peripheral vision.
- Doesn't require control of the patient's position.
- Ideal with non-cooperative patients.
- Controlled by a tablet via bluetooth connection.

MAIN APPLICATIONS

- Patient wears the VisionFit SC lens frame like a regular trial frame and looks through it at eye chart (or any other near/far target).
- Patient can be seated, standing or any other desired position or environmental condition.
- Eye chart or target can be placed at different distances, depending on the type of exam.
- Operator adjusts the device in order to change the configuration of the optics by using the tablet, requesting subjective feedback from the patient.
- The operator selects the output values for both glasses and contact lenses prescriptions.

HOW IT WORKS

- VisionFit SC is an innovative electronically, programmable, mobile and wearable, all-in one system of lenses.
- 100% wireless.
- VisionFit SC is powered by a rechargeable and replaceable battery pack.
- System controlled using an Android tablet.
- Performs a subjective sight examination and effectively replaces both trial glasses and manual/electronic phoropter functionality.





2WIN Technical specifications

| | |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Operating mode: Binocular/monocular | Working distance: 1 m \pm 5 cm |
| Refraction Measurement: Automatic | Data Interface: Wi-Fi, USB, microSD card |
| Sphere range: \pm 15 D | Printer interface: USB, Infrared (irda), wifi and email to print |
| Cylinder range: \pm 5 D | Power: Rechargeable battery |
| Cylinder axis: 1° - 180°, steps 1° | Battery charger: 110-220 Vac, 0.5 A |
| Pupil size: Automatic detection, 4-11 mm, steps 0.1 mm | Size: 165x130x98mm |
| Pupil distance: Automatic detection, 30-120 mm, steps 1 mm | Display: 3.5" |
| Fixation target: Built-in | Weight: 840 g (30 oz) |
| Acoustic target: Built-in | Options/Accessories: Portable wireless printer, supplementary battery, battery-charger, metal case |



VisionFit SC Technical specifications

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|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Spherical correction range | -10/+10 D and -20/+20 D with the use of an additional lens with prescription steps of 0.125 D and variable fluidity steps (adjustable from 0.05 to 0.25 D) with the use of the basic spherical lens. |
| Cylindrical correction range | 0 to 10 D by steps of 0.25 D |
| Axis adjustment range | 1-180° by steps of 1° |
| Additional prismatic lenses range (optional) | 0 to 10 Δ , steps 1 Δ (add on – no automatic) |
| Corneal vertex distance range | 10-18 mm |
| Manual pupil distance adjustment range | 50-80 mm, separated right and left |
| Device free aperture | 30 degrees |
| Display | Tablet 9.7 inches multiple touch |
| Bluetooth module | BT 4.0 low energy |
| Power | Rechargeable battery pack |
| Battery charger | AC-DC Medical Converter 24V 60W |

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