



QUICK GUIDE

2WIN

2WIN is a **binocular vision analyzer** that measures both eyes at the same time, in real-life vision conditions

MEASUREMENTS

- **Refractive Errors:** myopia, hyperopia, astigmatism, and other amblyogenic factors
- **Sight Anomalies:** related to anisometropia, anisocoria, phorias, tropias
- **Pupil Parameters:** Pupil Parameters (pupil size, pupil distance) and head tilt

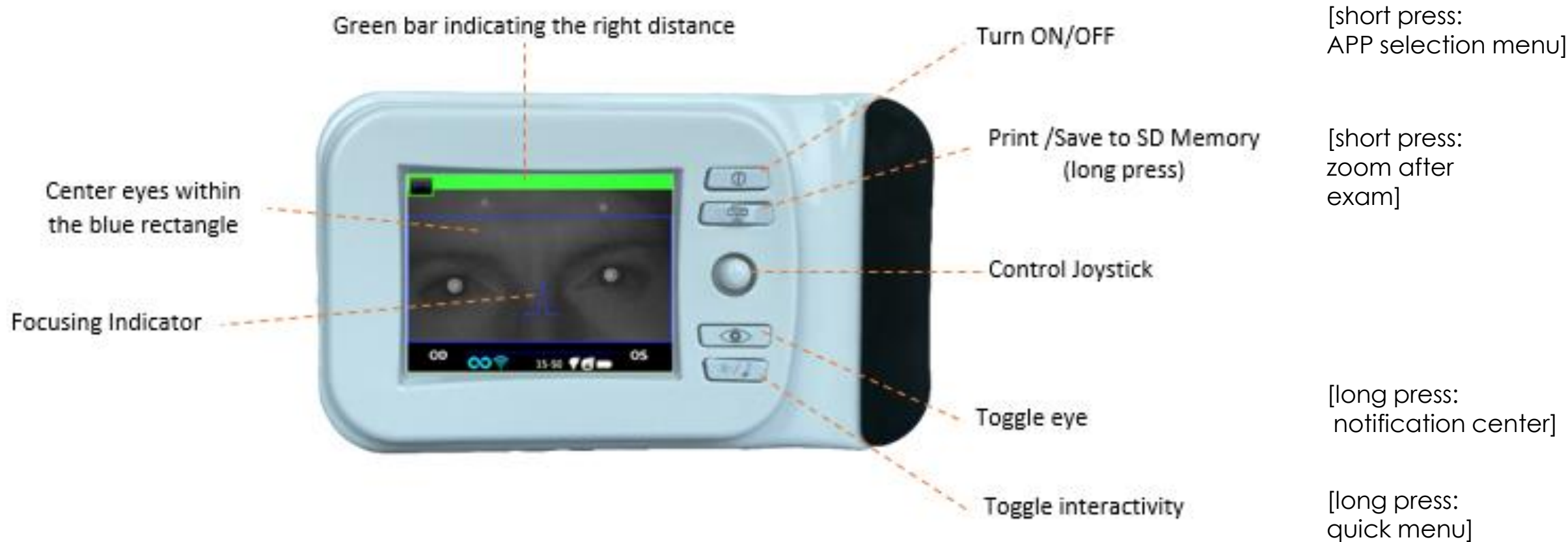
BENEFITS

- ✓ Binocular measurement
- ✓ No need of cycloplegic drops
- ✓ Fast
- ✓ Portable and sturdy
- ✓ Contactless measurement
- ✓ Safe working distance (1 meter)
- ✓ Attraction features for kids and non-cooperative patients

Buttons Functionalities



Buttons Functionalities

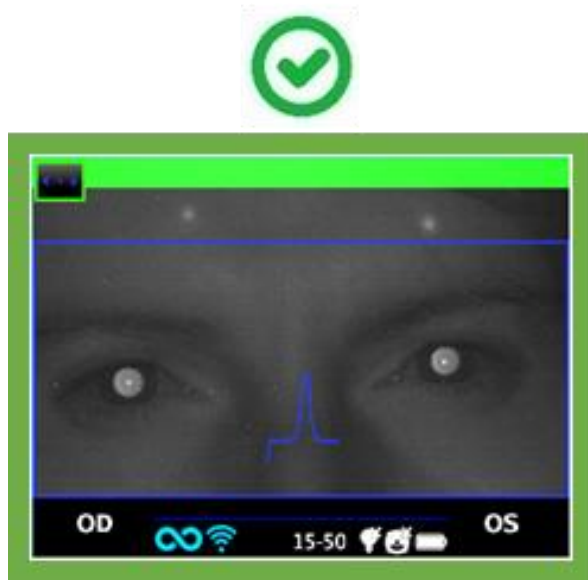


Starting a new measure



- ✓ Select patient's age range with a long press on the right of the joystick
- ✓ Hold 2WIN with both hands and point 2WIN towards the patient's eyes, at about 1-meter distance
- ✓ Instruct the patient to keep his/her eyes wide open, clear of eyelids or eyelashes, and to fixate the centre of the camera
- ✓ Press and keep pressed the START button to enter the focusing phase

Distance and Focus



- ✓ Centre the eyes of the patient in the measurement area
- ✓ Adjust the distance to focus the image until the top bar is green
- ✓ Check that Purkinje reflexes are small and bright and that the focus indicator is sharp
- ✓ Release the START button to start the acquisition

Light conditions

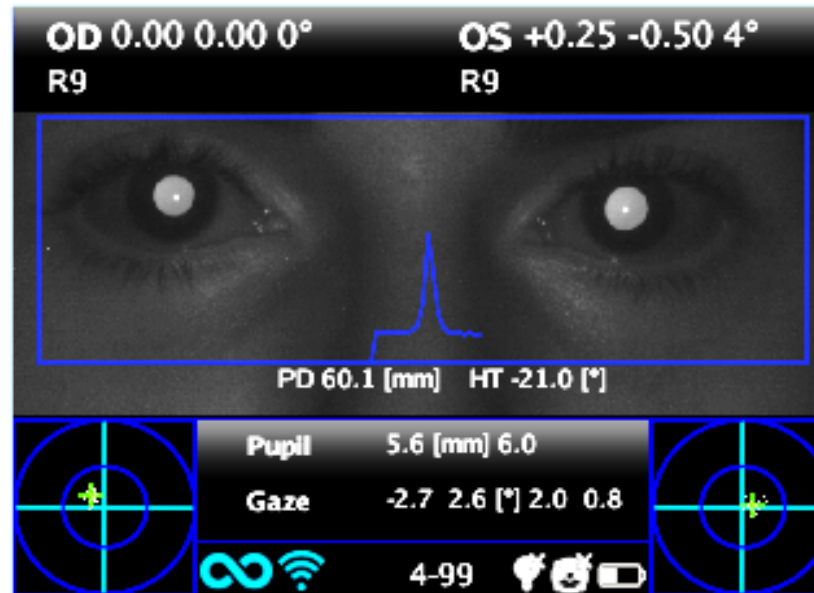


2WIN works in dim light conditions.

If the environment is too bright, the measurement could result in a low Reliability warning.

For the proper working of the device, remove any visible and IR light disturbances.

Exam Results



Exam results are automatically displayed at the end of the measurement.

A Reliability Index (R1-R9) is always given.

If Reliability Index is 6 or lower repeat the measurement, if possible.

Screening Table



Move right with the joystick to visualize Amblyopia risk factors Screening Table.
Default Screening Table is based on AAPOS guidelines.

Exam Report

Exam Report 

Patient name: Date of birth:			Exam Date: Thu Mar 28, 2019 04:27 pm Exam N: 30		
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OD



OS



Sph	Cyl	Ax	Sph	Cyl	Ax
+1.75	-0.25	91°	+1.50	-0.25	34°

SE: +1.62 **Reliability: 8**

Info: **RGZ: 1.65**

Pupil Size: 5.7 mm


Gaze: 6.9° ← 0.5° ↓

SE: +1.38 **Reliability: 8**

Info: **LGZ: 1.66**

Pupil Size: 5.6 mm









Gaze: 4.2° → 0.6° ↑



Pupil Distance: 61 mm



Head Tilt: -0.1°

Criteria for:	15-50yrs	OK  NOT OK 	Outcome
Hyperopia	Sph < 3.5D	 	✓
Myopia	Sph < 1.5D	 	✓
Astigmatism	Cyl < 1.5D	 	✓
Anisometropia	DIF < 1.5D	 	✓
Anisocoria	DIF < 1mm	 	✓
Gaze	< 4.6°	 	✗

Dr's signature:

Screening Result: Refer

2WIN Dos and Don'ts

Dos:

- ✓ Always select the correct age range
- ✓ Check that the patient is looking at 2WIN and keeping his/her eyes wide open
- ✓ In case of fixation problems, enable the central fixation target, the attention features or select monocular mode
- ✓ Always check the Reliability Index. If needed, repeat the measurement
- ✓ Always keep 2WIN software updated to the last version, available here:
<https://www.adaptica.com/products/2win/>

Don'ts:

- ✓ Do not recharge 2WIN battery through the USB cable
- ✓ Do not cover the external LED during the measurement. Mind your fingers!
- ✓ Try to not use cycloplegic drops

Technical Specifications

Sphere range	± 7 D, step 0.25 D Up to ± 15 D for SE, step 0.50 D
Cylinder range	± 5 D, step 0.25 D
Axis range	0-180°, step 1°
Pupil Size	4-7 mm (3.5-11 mm), step 0.1 mm
Pupils Distance	30 mm to 120 mm, step 1 mm
Working distance	1 meter ± 5 cm
Fixation and acoustic target	Built-in
Measurement mode	Binocular or Monocular
Optional Packages	Corneal Reflexes, Dynamic Pupillometry, Lens Centering, Intermediate Vision, 2WINNY KIT (for fixation)



Thank you!

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