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# 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

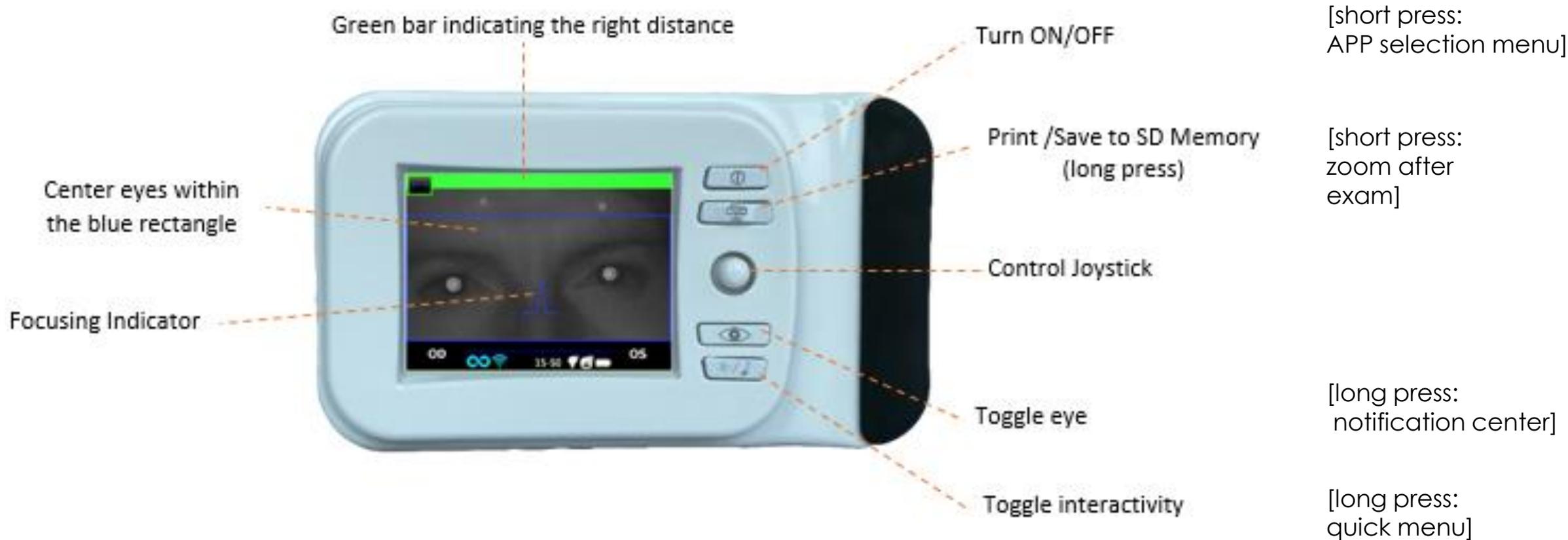
## BENEFITS

- ✓ 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

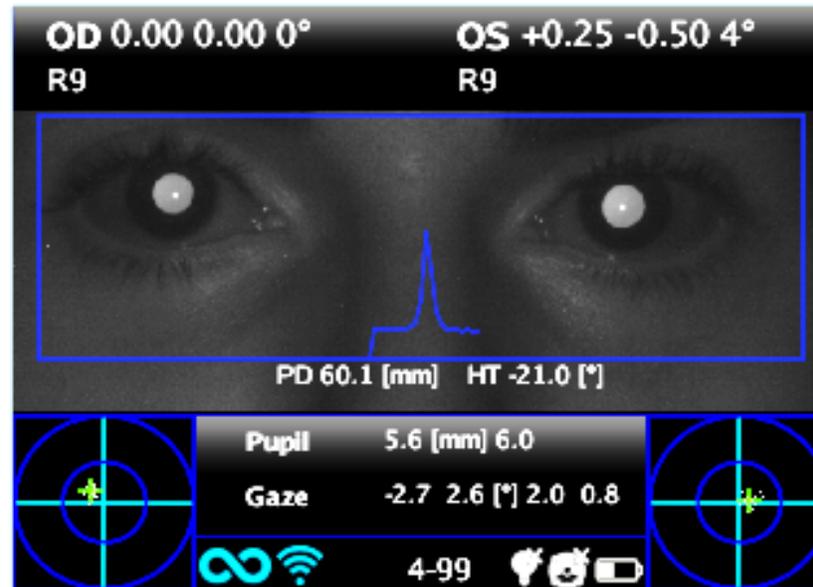


2WIN works in dim light conditions.

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

OD



OS

OD			OS		
Sph	Cyl	Ax	Sph	Cyl	Ax
<b>+1.75</b>	<b>-0.25</b>	<b>91°</b>	<b>+1.50</b>	<b>-0.25</b>	<b>34°</b>
SE: +1.62		Reliability: 8	SE: +1.38		Reliability: 8
Info: RGZ: 1.65			Info: LGZ: 1.66		
Pupil Size: 5.7 mm			Pupil Size: 5.6 mm		
Gaze: 6.9° ← 0.9° ↓			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	$\pm 7$ D, step 0.25 D Up to $\pm 15$ D for SE, step 0.50 D
Cylinder range	$\pm 5$ 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 $\pm 5$ 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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