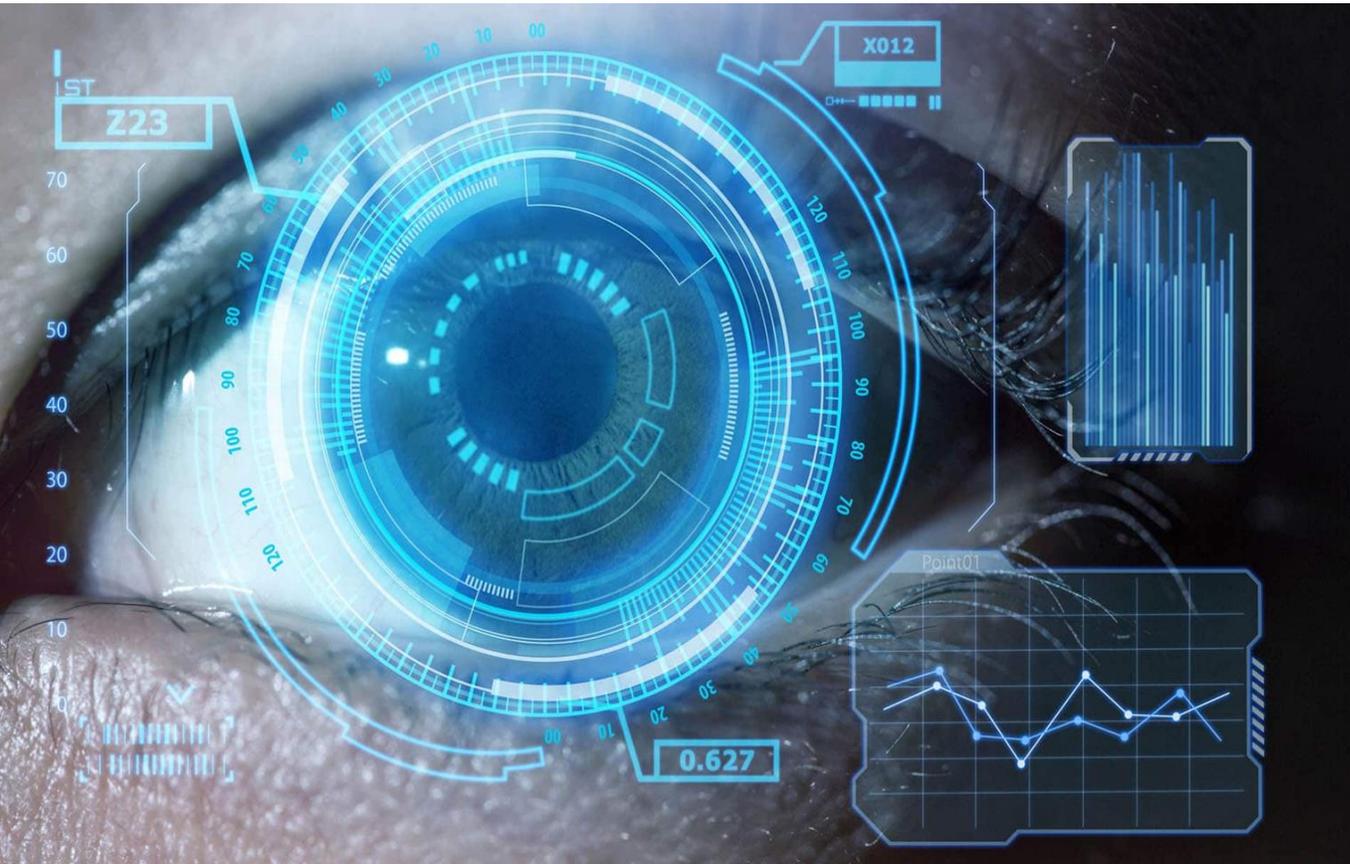




KALEIDOS plus
powered by EyeRobo®

Anterior Segment Screening

Introduction

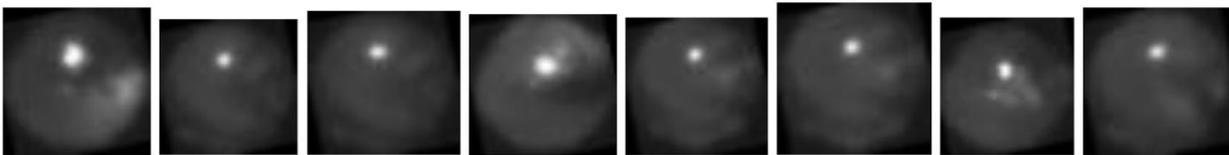
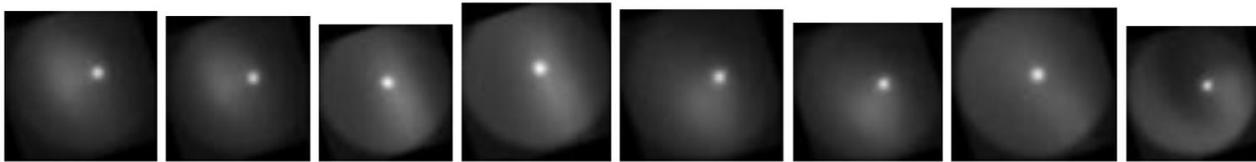
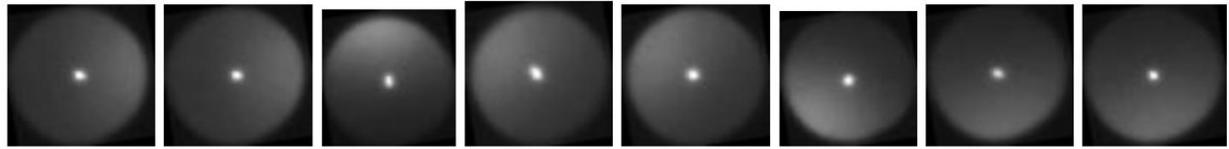


Anterior Segment Screening function is a complete AI system on the cloud for cataract and keratoconus screening.

The pupils' images acquired by KALEIDOS Plus are automatically uploaded on Adaptica Cloud.

The AI algorithm processes the data instantly and, if any anomaly of the anterior segment is detected, a warning is given with the indication of the eye, if right and/or left.

The AI algorithm



The AI algorithm is based on a Convolutional Neural Network and it has been trained and validated on thousands of pupils.

The algorithm learnt how to distinguish between different patterns in the pupil images, thus being able to identify normal eyes and eyes affected by cataract or keratoconus.

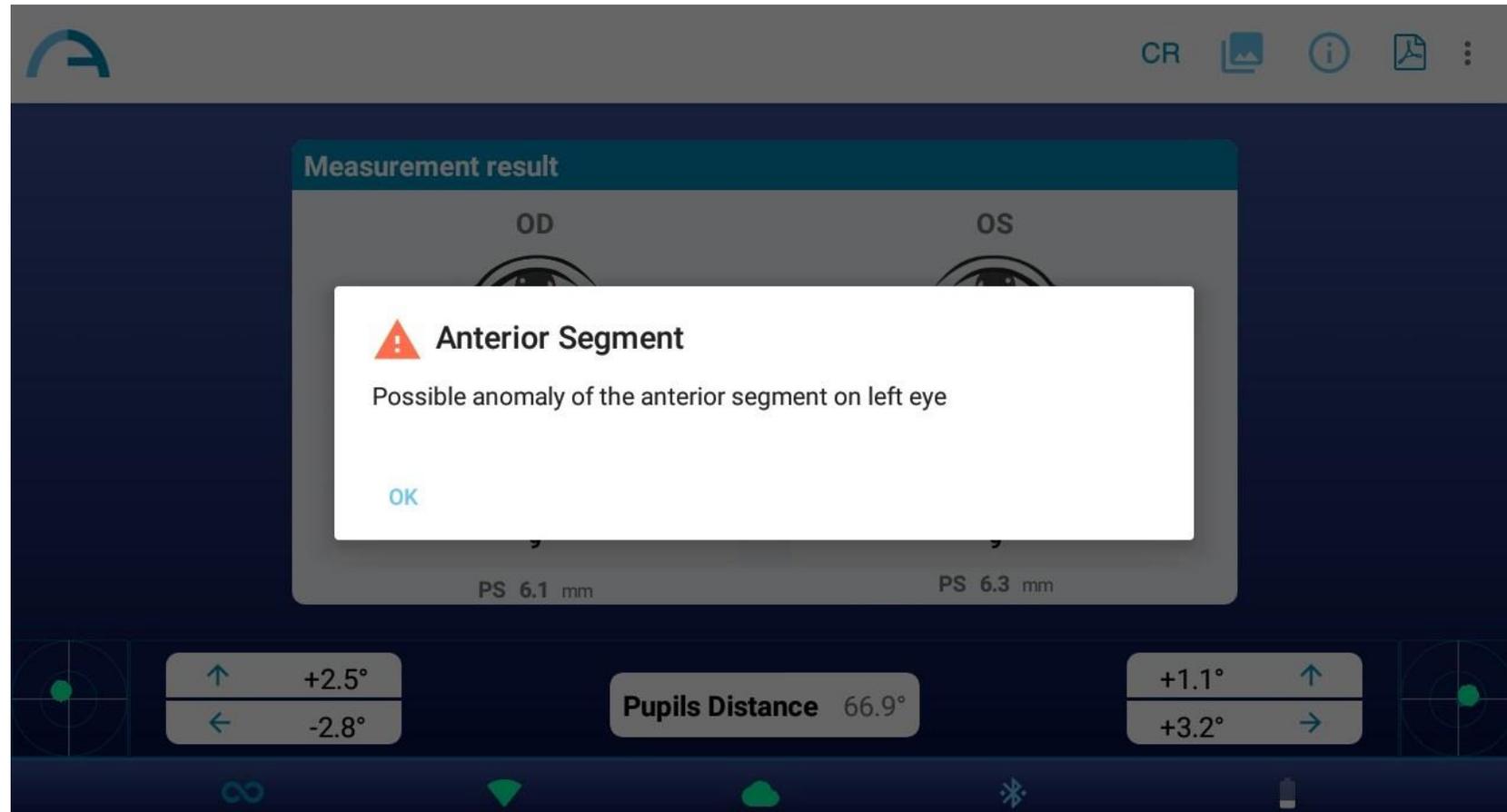
Anterior Segment Screening

The screenshot displays the ADAPTICA Anterior Segment Screening interface. At the top, there is a navigation bar with the ADAPTICA logo on the left and icons for 'CR', a chart, information, a document, and a menu on the right. The main content area is a dark blue panel with a white box titled 'Measurement result'. This box is divided into two columns for the right eye (OD) and left eye (OS). Each column contains an eye icon, a table of refractive error data, and a 'Reliability' score. Below the tables, the 'PS' (Pupil Size) is indicated for each eye. At the bottom of the screen, there is a control panel with two target reticles on the left and right. Between them are four input fields: two for vertical tilt (+2.2° and -1.6°) and two for horizontal tilt (+1.3° and +1.9°). A central box displays 'Pupils Distance 58.3°', with a red arrow pointing down to it. The bottom of the screen shows a standard Android navigation bar with icons for home, back, and search.

Measurement result					
OD		OS			
SE -1.12		SE -1.0			
SPH -1.0	CYL -0.25	AX 105°	SPH -1.0	CYL +0.00	AX 0°
Reliability 9		Reliability 9			
PS 4.3 mm		PS 4.4 mm			

Vertical Tilt: +2.2° (up), -1.6° (down)
Horizontal Tilt: +1.3° (right), +1.9° (left)
Pupils Distance: 58.3°

Anterior Segment Screening





What do you want to start with?



Start a new
measurement



Check out latest
measurements



App & device setup





Thank you!

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