Sensyne Health

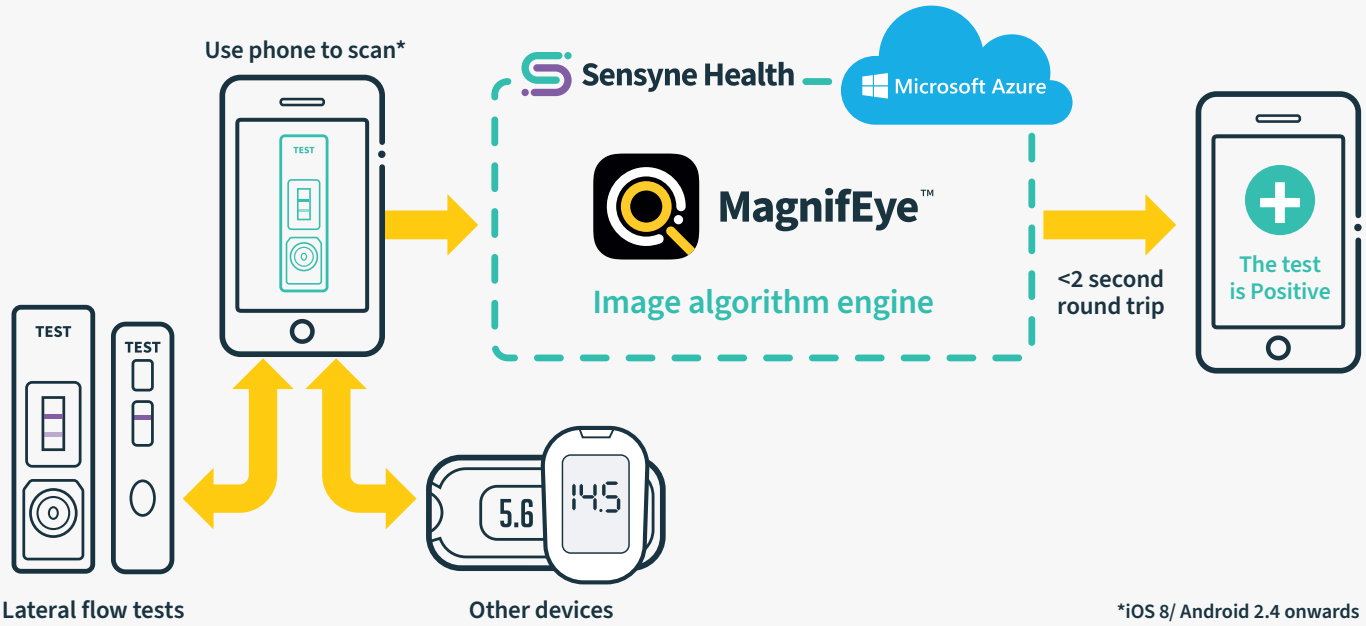
MagnifEye™

The artificial intelligence app that automates the fast and accurate reading of lateral-flow tests

MagnifEYE is a new software application that automates the interpretation of lateral flow tests (LFTs), helping users to rapidly classify each test as 'positive', 'negative' or 'invalid' with high accuracy†.

The app works by supporting a user to take a photo of an LFT using a smartphone camera. Machine learning is used to detect difficult to read lines, including those not visible to the human eye, potentially improving the accuracy of the result†. The algorithm has been shown to perform even at very low viral loads, supporting the detection of very faint lines.

User journey



*iOS 8/ Android 2.4 onwards

†Accuracy determined by performance of AI algorithm trained and validated on 1200 tests across a range of titrated viral loads. On 166 images readable by the human eye, the algorithm performed with 100% accuracy; at a viral load not readable by the human eye, performance was above 75%.

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Commercially flexible

The MagnifEye technology is available for 3rd party use via APIs, or our team can create a bespoke mobile app for customers.

- The algorithm can be trained on any lateral flow test, generally within days, depending on the training data.
- The algorithm is designed to help the user interpret the test, as designed by the manufacturer and according to their Instructions for use.
- The algorithm can be delivered via an SDK or as an API available for use on both Android and iOS phones, or within an ML container on the phone (requires iOS 13 / marshmallow).
- It can be delivered in a cloud-based environment or directly integrated for use on the phone offline.
- The product can also be configured to read and report QR/barcodes, to help manage supply chains and support fraud detection.
- The algorithm and any required app elements can be optimally configured and delivered via a high performing API to meet the needs of clients who already have apps in place. Our app components were built under ISO13485 and ISO27001 quality management standards.

User friendly

Identifies, guides and frames the area of interest in the test then automatically takes a photo to ensure high quality images.

Improves accuracy

Reduces the variability associated with user interpretation of LFTs.

Rapid testing

Rapidly classifies each test as ‘positive’, ‘negative’ or ‘invalid’ in just a few seconds.

Robust

Works accurately regardless of lighting conditions, backgrounds or other variations.

Fraud detection

Distinguishes real and fake lines.

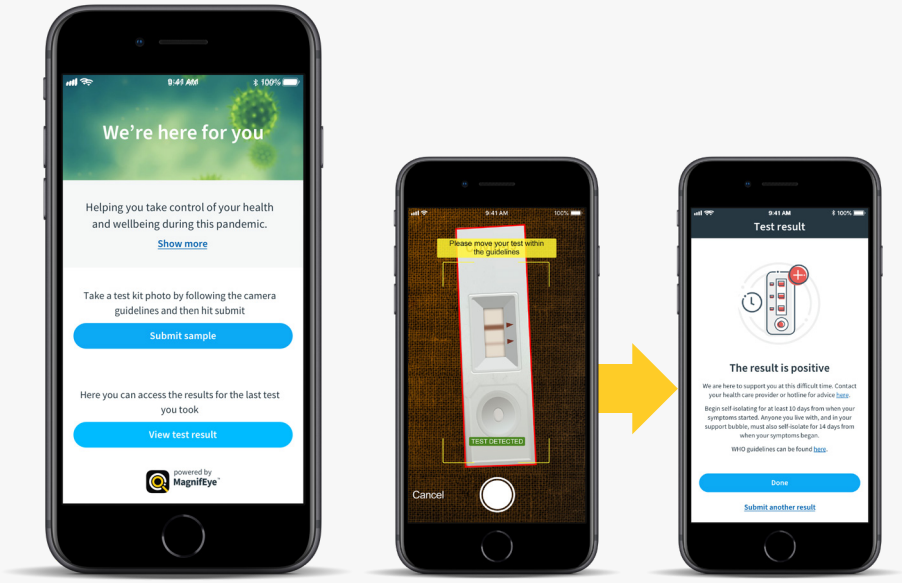
Secure

Data is encrypted and securely held on the cloud with robust cyber security.

Image capture & algorithm

MagnifEye features an image capture app, in Android and iOS, which enables the user to take photos of the test from above, within guidelines, as near to the test as possible, automatically turning on the flash if necessary.

This frictionless user journey, which provides guidance to the user to help position their camera, automatically takes a photo when the requisite conditions are met. This optimises performance of the algorithm.



For more information on availability, please contact:
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