

SKANNEX™

LATERAL FLOW AND ELISA READER SYSTEMS



Skannex offers flexible reader solutions to be used with virtually almost any Lateral Flow Immunoassays. We have partners worldwide in the food and feed industry as well as in the clinical diagnostic industry.

Today, Skannex can offer a variety of reader solutions based on its proprietary software platform. The common denominator is Skannex Software, which supports a wide range of reader systems:

- A reader system based on a standard computer/laptop and a scanner.
- A reader system based on a cell phone camera and an internet server.
- A reader system based on a smartphone running Android, processing the images without a server.
- A reader system based on an integrated unit comprising a computer and imaging system

Skannex is a software brand as well as a provider of complete systems. Our business model is the sale of our products to Diagnostic Companies, who then market our products as OEM solutions to end users. This B2B concept allows Skannex to remain focused on its core businesses of software and hardware development and allows great flexibility in co-branding and co-designing the end user applications and products, as well as utilizing a very interactive distribution model.

How does it work?

Skannex has built a very powerful software platform for analysing images. The software can be installed in various ways on broad range of hardware platforms, as well as utilizing different infrastructure. The software has a set of common and complex algorithms, which recognise images, and perform all calculations required to produce end results. In addition, the software includes all image drivers, which allows simple "read / result" operation. Skannex Software will analyze lateral flow devices using any mix of qualitative and quantitative assays. Report, printouts and a powerful database of results are all provided

The Skannex barcode

The key to Skannex software is a proprietary barcode (Patent Pending). This barcode is read each time a lateral flow cassette or strip is read. The barcode contains all information required to "process" the cassette, including product ID, lot number, expiration, and instructions on how the cassette is to be processed: quantitative, yes / no or semi-quantitative. This feature provides the simplest user interface of any lateral flow reader: the user never has to enter product or lot information when reading. In addition, the barcode contains lot-specific information which calibrates the performance of each product lot. This feature allows complete flexibility in product manufacture.



Example of a Skannex barcode (Patent Pending)

This unique barcode can easily be printed on any lateral flow membrane, whether it is a single strip or a cassette. The barcode can be adapted to any number of analytes (test lines) on a membrane, or combination of membranes. Once a single strip or cassette is bearing the Skannex barcode, the test can be read and measured by our system without any user interaction. A new production batch is most likely not to be equal the previous batch. Therefore, the barcode contains all batch specific data including standard curves or numerical thresholds and is easy to modify to new production batches.

The scanner solution

A small scanner is all you need to read immunoassays



This is a low cost solution which can be used in hospitals, Point-Of-Care, Labs, etc. The system could be comprised of an inexpensive, compact scanner (such as the Plustek OpticSlim 500) and a Netbook computer (such as the Asus EEE). or any other PC, including laboratory computers. These are very robust, inexpensive and small units, a perfect match with the Skannex applications. Skannex supports various Windows versions including Windows 7. The system is capable of reading various types of Lateral Flow Cassettes with 1-10 stripes and 1-15 testlines on each stripe. It can also read single strips and combs as well as programmable cassettes where the user first adds an antibody and then the sample. In our latest release, we have also implemented reading of assays with color pads and double sided cassettes. It can also read a mix of different cassettes in the same scan. The program controls the incubation timing, and thus manages even cassettes with different incubation time. All the information needed is stored in the barcode.

Another important feature is the export / report function. The system can be adapted to export data to journal systems or as an Excel readable report. It is also possible to create locked PDF or printouts on any office printer or thermo printer. With the upcoming demand for traceability and documentation of results, this will become a more and more important issue.

The cellphone solution

Another solution is using a cellphone as client that communicates with a central server via mobile internet protocol. Skannex has launched a Java application to be used with a cell phone camera with acceptable image quality. The Skannex Java application uploads an image to a central server using mobile Internet. The central server analyzes the image, and the result data can be exchanged back to the phone and/or other database systems. Data can be encrypted, and access controlled. It is no connection between the phone-ID and the client, thus providing anonymity. The client solution is ideal for both professional testing and for home screening.



The Smartphone solution



Skannex has adapted the SW to Android smartphones. Our smartphone program is controlling the smartphone camera with autofocus. After the image is captured the program will (without any use of a cellphone network) process the image and report the result to the user.

The smartphone can be integrated into a small low cost instrument controlling geometry and lightning or the smartphone can be used as a standalone unit.

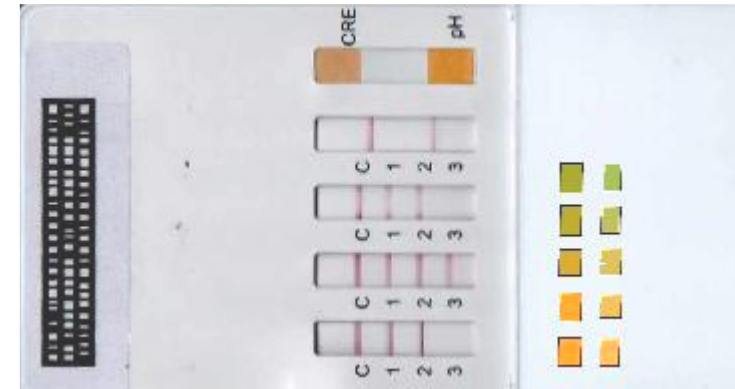
Instrument solutions



Skannex is developing an integrated Lateral Flow Reader based on Skannex Software. This reader is capable of multiple cassette reading, timed incubation for assay automation, and a powerful computer for data storage and analysis. The new CS Reader features a TouchScreen interface for unparalleled ease of use and functionality

Adapting to a new assay or rapid test.

New rapid tests can easily and quickly be adapted to comply with the Skannex platform, ensuring rapid time to market. Read more in our partner program at www.skannex.com



Example of new assay with color pads

Low start-up costs, very small cost for hardware

Our service shall be free of charge as long as your assay is suitable and we can use our standard solution. Our policy is that a partnership should rely on very low start-up costs for all parties involved. Our solution is the most cost effective instrument solution available, and by far the most flexible.

Flexible License Agreement, distribution

Skannex is a software company, and we tailor our application to your need with your co-branding, such as background image, logo, language adaptation and button functionality. The accompanying USB Program-Key controls the features of the end-user application. It controls the branding, the help files as well as the type of assays the application can read. Our licence agreement enables you to resell and re-distribute the license using your own terms and condition towards your customers. The Skannex business model opens up new ways of saving and sharing costs.

R&D version of the software

We can offer special versions of our SW intended for R&D use. It will allow you to get raw data as well as perform other types of tests.

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