

AnCam® 6200

Multi-Analyte Test Reader



Machine vision accuracy for lateral flow assay test evaluation

Features

- Reads single and multi-target assay tickets
- Reliable and consistent readings, day or night
- Transmits data and images via local cellular network
- Auto-archives raw data, results, time, GPS location
- Provides early warning of strong positives
- Warns user of defective assay tickets
- Compatible with new high-sensitivity assay tickets
- Rechargeable/removeable battery: 60 readings
- Adaptable assay library, obsolescence-resistant

Application Areas

- Field detection of bioterrorism threat agents
- Medical pathogens
- Drugs of abuse
- Food safety
- Veterinary testing
- Environmental testing

The AnCam™ 6200 is a versatile and portable multi-analyte test reader and communication device usable with virtually any single or multi-target lateral flow immunoassay test (LFA). These tests are in wide use to detect and identify bioterrorism threat agents, medical pathogens, drugs of abuse, environmental toxins, food-borne pathogens, and animal disease.

The machine vision advantage LFA tests are typically designed with the assumption that results will be determined by visual inspection. However, humans are subject to a variety of visual frailties, particularly in situations of high stress or low light. Simple visual examination methods may fail to recognize manufacturing defects, out-of-date reagents, or errors in procedure. The AnCam 6200 replaces the human eye with an independent evaluation of the entire test protocol, producing consistently accurate results. Human error and lighting variables are removed. In addition, new assays are easily added and emerging assay tickets



Smart phone technology The AnCam 6200 uses a state-of-the-art Android smart phone to provide an integrated solution combining machine vision, proprietary signal processing algorithms, GPS-based locating capabilities, data storage, and data transmission in one compact package, along with all the standard smart phone communication capabilities – texting, email, and Bluetooth® capability.

Sensitivity & reliability The proprietary machine vision algorithms provide unprecedented sensitivity and reliability. By using a panel of signal-to-noise criteria to detect the presence of a pathogen, the AnCam can detect signals not easily visible to the eye. It provides preliminary estimates as the test progresses, analyzing the flow of the fluid sample to verify that incubation is proceeding normally.

Early warning Many LFA tests specify a 15-minute incubation period before reading the result. But if any lateral flow channels pass the signal-to-noise criteria indicating that the targeted material is present, the AnCam 6200 will notify the user immediately. This may occur long before the standard incubation period has ended, sometimes as early as five minutes after sample introduction. The AnCam 6200 can also be used to analyze coupons that have been previously incubated, delivering results in seconds.

Store and send results Upon completion, results can be transmitted as a text message or email using the local cellular network. All images and assay calculations involving the assay are stored in the AnCam 6200's internal memory for later examination, and optionally on its SD card.

Coming Soon The Ancam 6200 is obsolescence-resistant in the sense that protocols and libraries are easily modified for new coupons and assays that might emerge in the future. As a case in point it will be compatible with novel bioassay tickets to be announced by Research International in 2026. When this patent-pending ticket design is analyzed with the Ancam 6200, detection limits will be improved by up to 10 times over current lateral flow assay products.

U.S. Patent Nos.: 10192144, 10318845, 11023773.

AnCam 6200 Functional Specifications

Lateral flow cassette compatibility	Most commercially available tests including 1, 5, and 8 analyte coupons.
Image recognition/processing	Proprietary high resolution algorithms.
Types of analysis	Single measurement or tracked incubation.
Protocol Identification	Based on recognition of visual coupon features.
Camera and machine vision engine	Customized embedded cellular phone provides GPS/map functions.
Processing time	<ul style="list-style-type: none"> • With previously incubated coupon: Results within seconds. • From fluid sample introduction to final result: Varies according to coupon manufacturer's recommended incubation time (usually 15 minutes). • In the event of a strong positive, an alarm may issue as early as 5 minutes.
Archival capabilities	Date/time; user ID; ticket information; GPS latitude/longitude; ticket images saved for later analysis.
Communication	WiFi and cellular network; send assay result message to selected cell phone numbers or email addresses.
Hardcopy output	Via Bluetooth® printer or Wi-Fi® printer.



Physical Specifications

Size	178 x 82.6 x 97 mm
Weight	600 grams
Temperature range	Above 0°C to 50°C
Power	Rechargeable/removeable lithium-ion battery
Operating time	Up to 60 assays on one battery charge

Software & Accessories

Software	Pre-loaded AnCam software & Adobe Reader installed.
Included accessories	Durable carry case; wall plug transformer & USB cable; SD card; operating manual.



Research International reserves the right to change specifications without prior notice.

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