

RapiReadTM CUBE READER

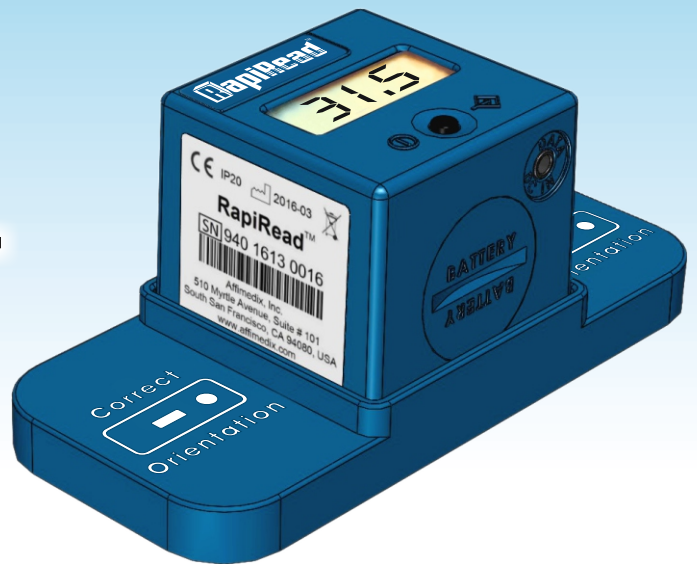
***Patented, Portable & Powerful
Point-of-Care Test Reader***



***World's smallest
Rapid Test Analyzer!***


Affimedix

RapiRead™ CUBE READER



Point-of-Care Test Reader

Affimedix, Inc. is offering World's Smallest Lateral Flow Immunoassay Reader System: **RapiRead™**. This uniquely designed CUBE-shaped device is a powerful and optimal tool serving as “electronic eye” that can help to obtain fast and exact readings for Point-of-Care Tests. **RapiRead™** provides rapid, reliable and affordable solution for your medical practice.

Principle of Operation:

RapiRead™ CUBE Reader is based on “**Reflective Optical Density Measurement**” Principle. This unique portable and battery-powered instrument takes multiple images through LED Camera (up to 25 images) and records the reflectance of the test strip surface and uses Assay-specific scoring algorithm to quantify the Test (T) line reflectance / color intensity, which will then be converted into the concentration of the test analyte in the sample. The results are reported in approximately 3 Seconds.

The Reader can read different assays by using Radio-Frequency Identification (RFID) Cards, which uploads wirelessly onto the Reader the Calibration File specific to the test to be conducted. After the Calibration File has been uploaded from the RFID Card, the CUBE Reader can be operated in a standalone mode independent of a computer or external power source.

Perfect Digital Reader for any Point-of-Care Test setting:

- Adaptable to Standard Lateral Flow Assays
- Cost Effective
- Small Size (4 x 4 x 4 cm)
- Light Weight: 40g
- User-friendly – Just One-button operation
- Clear Results
- Rapid Results in just 3 seconds
- Perfect for clarifying faint test lines or in low light situations
- Eliminates uncertainty and potential result misinterpretation
- LED Camera takes up to 25 images, and measures average value for higher Sensitivity and Accuracy.
- RFID Card with each product lot calibrates the Reader to the test
- Precise (CV: <1%)
- No maintenance
- Simple Quality Control
- Stores 100 test measurements
- Data transfer to a computer through a Cube-specific data cable (optional accessory) for documentation
- Data transfer to a mobile phone wirelessly via Bluetooth (coming soon)



Whole Blood Quantitative Vitamin D Test
Reveal Rapi-D™ Test Results in just 3 Seconds!

QUANTITATIVE DETECTION USING RapiRead™ CUBE READER

1. Check the "Correct Orientation" shown on the Adaptor for the Test Device and **RapiRead™** CUBE Reader.

2. Place the Adaptor on top of the Test Device correctly.

3. Place the **RapiRead™** on top of the Adaptor correctly.

NON-TIMER PROTOCOL

4. Turn-on the **RapiRead™** by pressing the black button. Reader runs a self-test, during the self-test "WAIT" is displayed. After an audible beep signal, "ON" is displayed. To perform a reading, press the black button again once for 1 second.

5. The display will show "RFID".

6. Place the Lot specific RFID Card provided with the Kit onto the top side of the **RapiRead™**. This will upload Vitamin D test specific Calibration data from RFID Card to **RapiRead™**.

7. Following an audible beep signal, "TEST" is displayed. Press the black button, the Reader displays "RUN".

8. After successful data transmission the measurement will start.

9. Vitamin D (Vit D) concentration is displayed in ng/ml with an audible beep signal.

TIMER PROTOCOL

4. Turn-on the **RapiRead™** by pressing the black button. Reader runs a self-test, during the self-test "WAIT" is displayed. After an audible beep signal, "ON" is displayed. Keep pressing black button till display shows RFID.

5. The display will show "RFID".

6. Place the Lot specific RFID Card provided with the Kit onto the top side of the **RapiRead™**. This will upload Vitamin D test specific Calibration data from RFID Card to **RapiRead™**.

7. Following an audible beep signal, "TEST" is displayed. Press the black button, the countdown timer will start.

8. Countdown timer display will start.

9. After 15 minutes Vitamin D (Vit D) concentration is displayed in ng/ml with an audible beep signal.



Point-of-Care Test Reader

PRODUCT SPECIFICATIONS

Usage	Reader for Lateral Flow Immunoassays
Test Format	Cassette Test
Measurement	Quantitation or Semi-quantitation
Dimensions	41 mm (L) x 41 mm (W) x 41 mm (H)
Weight	40 g
Display	LCD; 14 segment display
Operation	One button operation
Storage Capacity	100 Test Results
Measuring Time	Approx. 3 Seconds
Power Supply	3 Batteries CR2032 (3V/230mAh) or CUBE-specific USB Data Cable (Optional as accessory) also usable for data transfer to PC/Laptop
Interface	4 pole – 0.1 in. (2.5 mm) jack plug for power supply (instead of battery) and data transfer to PC/Laptop.
Configuration	Lot-specific configuration program via RFID technology.
Lighting	Wavelength 525 nm
Ambient temperature (During operation)	10°C – 35°C
Ambient Humidity (During operation)	20% – 85%
Storage temperature	-30°C – 85°C
Storage Humidity	20% – 85%
Timer Function	Determined along with calibration data.
Calibration	No Calibration required for one year. After one year, use Special QC Test to check the Reader.



Corporate Office:
Affimedix Inc.
 510 Myrtle Avenue, Suite # 101
 South San Francisco, CA 94080, USA



Tel: +1-650-634-0300
 Fax: +1-650-634-0301
 Email: info@affimedix.com
www.affimedix.com
www.Rapi-D.com

Indian Office:
Affimedix Diagnostics Pvt. Ltd.
 Unit No. 304, South Tower
 Lodha Sepremus II, Road No. 22, Wagle Estate
 Thane, Maharashtra – 400606, INDIA
 Tel: +91-22-49719466; 91-9029023343
 Fax: +91-22-49719566
 Email: sales@affimedixdiagnostics.com
www.affimedixdiagnostics.com

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