

ABAXIS



Inspired by you. **Innovated by Abaxis.**



## From Humble Beginnings...

The VetScan technology was originally developed for NASA by the scientists at the Oak Ridge National Laboratory. Their mission? To develop a small, portable, biochemical analyzer that was capable of performing multiple blood tests from just a single drop of whole blood — in space. Highly accurate results, easy enough to be used by almost anyone, and small enough to fit seamlessly into cramped quarters. The technology was soon acquired by Abaxis and eventually became the Piccolo Chemistry Analyzer, which was FDA cleared for human use in 1994. Later that year, Abaxis introduced the VetScan (Classic) Chemistry Analyzer to the Veterinary market with the objective to change the face of in-house veterinary diagnostic technology.













## To Comprehensively Superior at the Point-of-Care (and beyond).

Since then, thousands of veterinarians, research facilities, and educational institutions have come to rely on Abaxis for point-of-care diagnostics that deliver more of what they need. More efficiency. More quality. More innovation. More simplicity. It's an ever-growing family of products and services from a company that actually makes you feel like a part of the family.

**V E T S C A N<sup>®</sup>**

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# VETSCAN VS2

Chemistry Analyzer










## Rocket Science at the point-of-care with 13 Profiles to Choose From

The VS2 is a state-of-the-art chemistry, electrolyte, immunoassay and blood gas analyzer that delivers uncompromising accuracy from just two drops of whole blood, serum or plasma. The VS2 is amazingly simple and intuitive, with precision reference laboratory quality results in 12 minutes—making it ideal for veterinary clinics, mobile practitioners, research laboratories, and pharmaceutical and biotech companies.

## Comprehensive Test Portfolio – 13 Different Profiles to Choose From

| Analytes  | ALB | ALP | ALT | AMY | AST | BA | BUN | Ca | CHOL | CHW | CK | Cl- | CRE | GGT | GLOB* | GLU | K+ | Mg | Na+ | PHB | PHOS | T4 | TBIL | tCO <sub>2</sub> | TP | UA |
|---|-----|-----|-----|-----|-----|----|-----|----|------|-----|----|-----|-----|-----|-------|-----|----|----|-----|-----|------|----|------|------------------|----|----|
| <b>Canine Wellness Profile #500-0044</b>       | •   | •   | •   |     |     |    | •   | •  |      | •   |    |     | •   |     | •     | •   |    |    |     |     | •    |    | •    |                  | •  |    |
| <b>Comprehensive Diagnostic Profile #500-0038</b>   | •   | •   | •   | •   |     |    | •   | •  |      |     |    |     | •   |     | •     | •   | •  |    | •   |     | •    |    | •    |                  | •  |    |
| <b>Preventive Care Profile Plus #500-0047</b>  | •   | •   | •   |     | •   |    | •   | •  |      |     |    | •   | •   |     | •     | •   | •  |    | •   |     |      |    | •    | •                | •  |    |
| <b>Prep Profile II #500-0026</b>  |     | •   | •   |     |     |    | •   |    |      |     |    |     | •   |     |       | •   |    |    |     |     |      |    |      |                  | •  |    |
| <b>Electrolyte Plus #500-0046</b>              |     |     |     |     |     |    |     |    |      |     |    | •   |     |     |       |     | •  |    | •   |     |      |    |      | •                |    |    |
| <b>Critical Care Plus #500-0042</b>   |     |     | •   |     |     |    | •   |    |      |     |    |     | •   | •   |       | •   | •  |    | •   |     |      |    |      | •                |    |    |
| <b>Kidney Profile Plus #500-0045</b>           | •   |     |     |     |     |    | •   | •  |      |     |    | •   | •   |     |       | •   | •  |    | •   |     | •    |    |      | •                |    |    |
| <b>T4/Cholesterol Profile #500-0037</b>   |     |     |     |     |     |    |     |    | •    |     |    |     |     |     |       |     |    |    |     |     |      | •  |      |                  |    |    |
| <b>Phenobarbital Profile #500-0049</b>         | •   | •   | •   |     | •   |    | •   |    |      |     |    |     |     | •   |       |     |    |    |     | •   |      |    | •    |                  |    |    |
| <b>Mammalian Liver Profile #500-0040</b>  | •   | •   | •   |     |     | •  | •   |    | •    |     |    |     |     | •   |       |     |    |    |     |     |      |    |      | •                |    |    |
| <b>Equine Profile Plus #500-0043</b>  | •   |     |     |     | •   |    | •   | •  |      |     | •  |     | •   | •   | •     | •   | •  |    | •   |     |      |    | •    | •                | •  |    |
| <b>Avian/Reptilian Profile Plus #500-0041</b>   | •   |     |     |     | •   | •  |     | •  |      |     | •  |     |     |     | •     | •   | •  |    | •   |     | •    |    |      |                  | •  | •  |
| <b>Large Animal Profile #500-0023</b>   | •   | •   |     |     | •   |    | •   | •  |      |     | •  |     |     | •   | •     |     |    | •  |     |     | •    |    |      |                  | •  |    |

\*Calculated value



For VS2 Only



# intelligent Quality Control... or as we like to call it, **iQC**

With the VS2 Chemistry Analyzer, quality control is built-in—thanks to a sophisticated iQC system that combines with proprietary algorithms to assure quality and dependability with every result. **No more worrying about running controls and calibrations.**



## SAVES TIME & MONEY

iQC eliminates labor and material costs of other analyzer controls and calibrations. Having iQC is like having a service and maintenance agreement at your fingertips, but at no cost.



## ROCKET SCIENCE DELIVERED RIGHT TO YOUR LAB

iQC protects you and your patient by automatically ensuring your VS2 is working properly and providing accurate results... on every run.



## iQC REACTIONS

Chemistry QC reagent beads reveal and quantify any degradation of the analyte-specific reagents in the rotor due to suboptimal storage conditions (moisture and temperature). If degradation exceeds a defined level, the run is cancelled and an error message is displayed.



## Simple Operation

Practices around the world have discovered how the Abaxis Chemistry Analyzer has improved practice efficiencies and saved them time and money. Three simple steps deliver results on-site, in minutes.



1 Insert sample.



2 Insert rotor.



3 Read results.

Requires only two drops of whole blood.

| Features  | Benefits  |
|---|---|
| Easy-to-use   | Reduce training time and increase employee compliance to use  |
| Expansive and unique menu                                     | Save time, counter space, and costs with the ability to test chemistry and electrolyte analytes on a single panel and have access to specialty tests including T4, Bile Acids, TCO <sub>2</sub> , and Phenobarbital on one analyzer |
| Accuracy comparable to reference laboratories                 | Diagnose and treat patients confidently   |
| Intelligent Quality Control (iQC)                             | No more worrying about running controls and calibrations as iQC monitors the analyzer, rotor, and sample before and during every analysis to ensure reliable results  |
| Little to no maintenance                                      | Save time and costs plus increase employee compliance to use  |
| Detects sample interference - hemolysis, lipemia, and icterus | Diagnose and treat patients confidently as analyte results are suppressed if affected by > 10% interference and receive useful information about sample integrity and handling  |
| Small footprint and portable (only 11.6 lbs.)                 | Use this analyzer anywhere and anytime in various environments  |
| Cost effective  | Save money with low-price reagents, no control and calibration costs, and no service contracts  |
| Speed: 12 minutes to results                                  | Obtain results, diagnose, discuss with clients and begin treatment within one visit   |
| Stores 5,000 patient records                                  | Provides peace of mind that results are secure and allows recall of patient history   |
| Connectivity  | Connect with Practice Management Software and external printers using the USB ports and LAN port and/or the VetScan FUSE  |

# VETSCAN HM5

Hematology Analyzer





## Advanced Hematology Five-Part Differential

The HM5 is a fully-automated, five-part differential hematology analyzer displaying a comprehensive 22-parameter complete blood count (CBC) with cellular histograms on an easy-to-read touch-screen. Its superior performance, elegant design, ease of use, true database management capability, and minimal maintenance make it the optimal hematology system for veterinary clinics, research laboratories, and pharmaceutical and biotech companies.

### Simple Operation



1 Enter information.



2 Insert sample and press start.

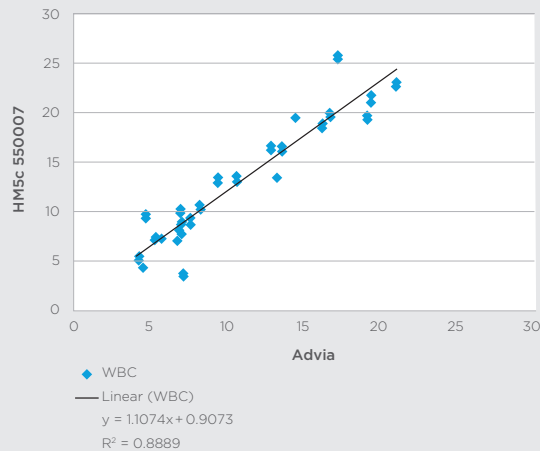


3 Read results.

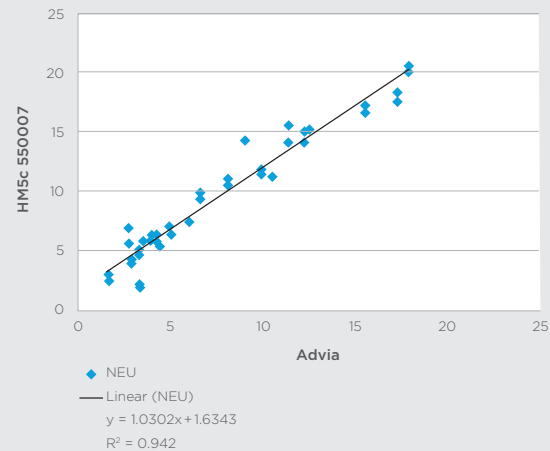
## Proven CBC Accuracy

Figures 1a, 1b and 1c highlight the accuracy of the HM5 on WBC, LYM and EOS differentials in canine samples. In addition, the HM5 performed admirably on all the species tested (cat, dog, horse). Each data point is an average of duplicate HM5 runs, and a single run on an Advia instrument (pathology lab). In the plots shown, the HM5 results matched the pathology lab instruments extremely well.

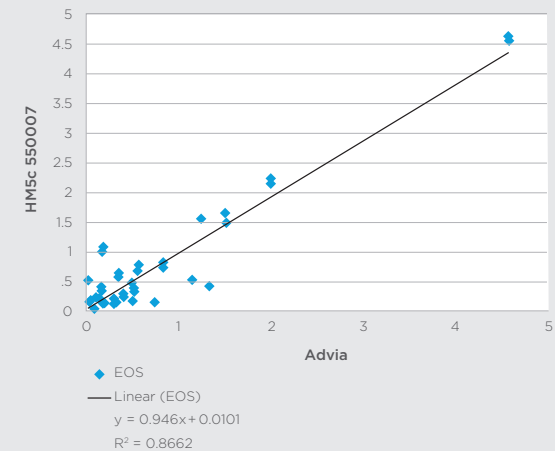
**Figure 1a**  
Canine WBC



**Figure 1b**  
Canine LYM



**Figure 1c**  
Canine EOS



## Actual Direct EOS Measurements

Some hematology analyzers only provide estimates of eosinophil counts, which prove to be relatively inaccurate. The HM5 uses a combination of impedance and cytochemical technologies to provide a direct independent measurement for the presence of eosinophils. These eosinophil counts correlated very well with the pathology lab (Figure 1c).

## Reproducibility You Can Rely On

The HM5 provides reproducibility in its measurements in intra-day trials, intra-instrument trials and multi-site studies done with multiple operators. Whether it's between different users or different instruments, the HM5 Analyzer provides reproducibility you can count on.

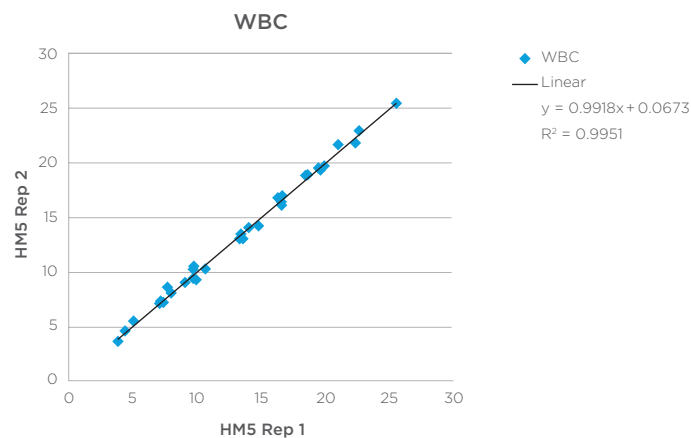
The following table shows the total variation shown across one normal control sample run 10 times over five days on one analyzer. All the CVs are extremely low — some of the lowest variability in the veterinary hematology marketplace. All of these samples were run with normal level controls.

Low variability (% CV) in HM5 CBC with multi-day, multi-instrument precision.

| Parameter | WBC  | NEU  | LYM  | EOS  | HGB  | RBC  |
|-----------|------|------|------|------|------|------|
| % CV      | 1.89 | 1.87 | 3.44 | 1.32 | 1.36 | 2.44 |

In addition, the reproducibility from measurement to measurement is impressive. When duplicate runs of live canine blood samples are plotted against each other, the two replicates are almost entirely identical. In Figure 2, the WBC result for replicate 1 (x-axis) is plotted against replicate 2 (y-axis). This representative plot shows that the two replicates correlate very well, indicating tremendous reproducibility.

**Figure 2**  
High precision of canine samples on the HM5.



| Features   | Benefits   |
|--|--|
| Five-part differential on cat, dog, horse, cow, alpaca and llama; three-part on 11 other species | Flexibility to analyze 17 common species in your practice  |
| 22 parameters, including direct eosinophil counts and eosinophil percentage                      | Provides full CBCs analyses for even allergic and parasitic cases  |
| Three to four minutes to results   | Fast turnaround for each sample—run nearly 20 samples per hour in five-part mode   |
| Small, space-saving, elegant design with large touch-screen display                              | Fits on nearly every clinic counter  |
| Advanced, integrated self-cleaning system  | Minimal maintenance facilitated by software reminders and step-by-step instructions                                      |
| On-screen patient results trending   | Easy patient monitoring over time  |
| Stores 5,000 records in database with simplicity, flexibility and usability                      | Easy database backup and access  |
| 50 µL sample size  | Allows analysis of low-volume samples and replicate runs for small or young animals                                      |
| Highly accurate, reproducible results comparable to reference lab analyzers                      | High confidence in results   |
| Eco-friendly, cyanide-free reagents  | Simplified, safe reagent handling  |
| USB and ethernet ports   | Easy loading of software upgrades or archiving of data   |
| Validated for peritoneal and synovial fluids   | In-clinic fluid evaluation and therapy monitoring for inflammation, infection and oncology cases                         |
| Connectivity   | Connect with Practice Management Software and external printers using the USB ports and LAN port and/or the VetScan FUSE |

# VETSCAN VSpro

Specialty Analyzer

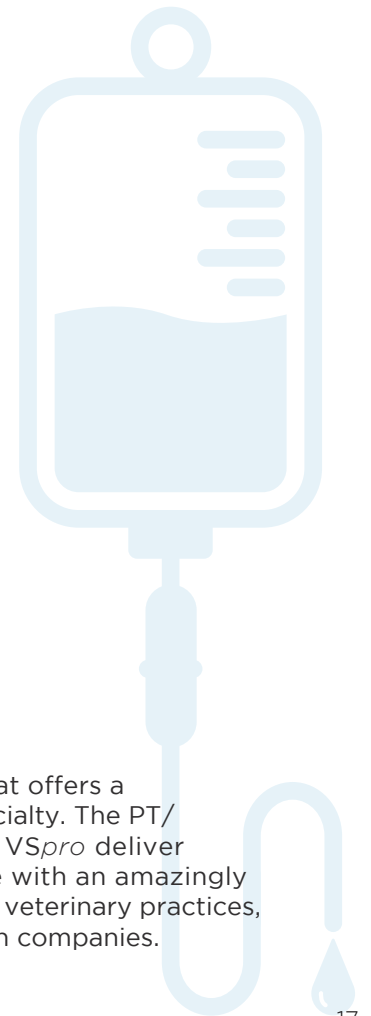






## On-Site Specialty Analyzer

The VSpro is a state-of-the-art specialty analyzer that offers a growing test menu useful to veterinarians of any specialty. The PT/aPTT and fibrinogen tests currently offered on the VSpro deliver uncompromising accuracy from a small sample size with an amazingly simple and intuitive user interface, making it ideal for veterinary practices, research laboratories and pharmaceutical and biotech companies.





## Presurgical Coagulation Testing & Critical Care

The *VSpro* offers a combination assay (PT and aPTT) for canine and feline coagulation testing.

It offers precise, accurate PT and aPTT results from 1-2 drops of citrated whole blood in minutes prior to surgery. The *VSpro* also assists in the diagnosis and evaluation of bleeding disorders, toxicity/poisoning, evaluation of disseminated intravascular coagulation (DIC), hepatic disease and monitoring therapy and progression of disease states.



## Fibrinogen Testing

The *VSpro* delivers lab-quality results in your office or barn-side.

Get rapid, automated fibrinogen testing without the hassles, delays and costs associated with the “old manual protocol” of testing or using commercial lab services.

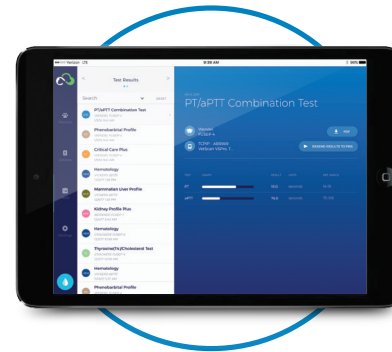
## Simple Operation



1 Insert cartridge and enter patient information.



2 Add sample to cartridge.



3 Read results.

| Features                    | Benefits   |
|-----------------------------|--|
| On-site specialty analyzer  | Results available on-site, in minutes  |
| Rapid turnaround time       | Especially important for critical patients and/or health monitoring  |
| Easy-to-use                 | Minimal hands-on time, easy-to-understand user interface (similar to the VS2)  |
| Small sample size (<100 µL) | Less blood needed from patient, decreased stress   |
| Cost effective              | Save on cost per test, maintenance and time to results compared with other methods   |
| Low maintenance             | No maintenance, self-contained analyzer with disposable cartridges   |
| Stores 1,000 test results   | Recall and search results in an instant by patient ID, patient name, date or test type   |
| Connectivity                | FUSE enabled   |
| Combination cartridge       | Single cartridge provides both PT and aPTT results for a better clinical picture and eliminates the frustration of using more than one cartridge |
| Rapid turnaround time       | Helps obtain diagnosis and begin treatment faster  |
| Easy-to-use                 | Decrease user error and frustration from multi-step sample prep  |
| Quantitative                | Provides accurate quantitative results comparable to a reference laboratory  |
| Low cost per test           | Improves compliance and provides ability to incorporate into presurgical protocols at a reasonable cost  |
| Uses citrated whole blood   | Eliminate the time it takes to spin down sample  |
| Accurate results            | Accurate quantitative results allow serial testing, which provides visibility to smaller changes in fibrinogen levels                            |
| Cost effective              | Save on cost per test, time and maintenance when it comes to sending out or using another point-of-care analyzer                                 |
| Quantitative                | Accurate quantitative results provide the ability to perform serial testing to effectively monitor treatment and the response to therapy         |
| Easy-to-use                 | Decrease user error and frustration compared with running fibrinogen with manual heat precipitation  |
| Turnaround time             | Helps obtain diagnosis and begin treatment faster compared with send-out labs  |
| Validated for equine only.  |  |

**i-STAT** Alinity v  
Handheld Analyzer





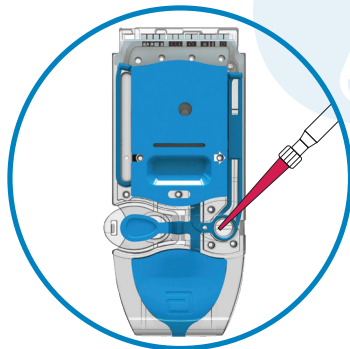
# i-STAT Alinity v

## Proven Technology - Now More Intuitive Than Ever

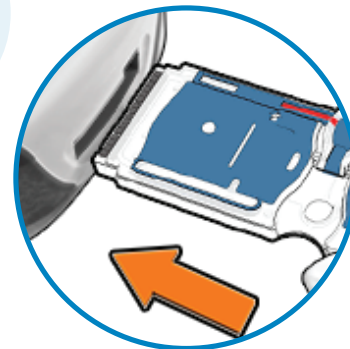
The i-STAT Alinity v is an advanced, easy-to-use, portable analyzer that delivers real-time, lab-quality results from 2-3 drops of whole blood in 2-3 minutes - making it the ideal solution for critical care situations, emergency hospitals, exotic animals, and research needs at the point-of-care.

Built on the proven technology of the i-STAT, the i-STAT Alinity v analyzer delivers accurate results for blood gases, electrolytes, chemistries and hematology. It provides important information needed to monitor and evaluate chronic disease and pre-anesthetic patients and provide diagnostic specialty testing information for ill patients.

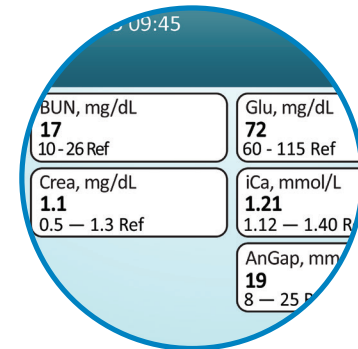
### Simple Operation



1 Fill cartridge to fill line.



2 Insert cartridge.



3 Read results on screen in 2-3 minutes.

## i-STAT Alinity v Cartridge Test Menu

The i-STAT Alinity v uses a wide range of disposable, single-use cartridges that contain the necessary reagents to provide reference lab quality results, while improving efficiency throughout the animal health continuum of care.

|              |   | CG4+ | CG8+ | G | Crea | 6+ | CHEM8+ | EC8+ |
|--------------|---|------|------|---|------|----|--------|------|
| Hematology   | Hematocrit (Hct)                            |      | •    |   |      | •  | •      | •    |
|              | Hemoglobin (Hb)*                            |      | •    |   |      | •  | •      | •    |
| Chemistry    | Blood Urea Nitrogen (BUN)                   |      |      |   |      | •  | •      | •    |
|              | Creatinine (Crea)                           |      |      |   | •    |    | •      |      |
|              | Ionized Calcium (iCa)                       |      | •    |   |      |    | •      |      |
|              | Glucose (Glu)                               |      | •    | • |      | •  | •      | •    |
| Electrolytes | Chloride (Cl)                               |      |      |   |      | •  | •      | •    |
|              | Sodium (Na)                                 |      | •    |   |      | •  | •      | •    |
|              | Potassium (K)                               |      | •    |   |      | •  | •      | •    |
| Acid Base    | pH  | •    | •    |   |      |    |        | •    |
|              | Partial Pressure Carbon Dioxide ( $PCO_2$ ) | •    | •    |   |      |    |        | •    |
|              | Bicarbonate ( $HCO_3$ )*                    | •    | •    |   |      |    |        | •    |
|              | Total Carbon Dioxide ( $TCO_2$ )*           | •    | •    |   |      |    | •      | •    |
|              | Anion Gap (AnGap)*                          |      |      |   |      |    | •      | •    |
|              | Base Excess (BE)*                           | •    | •    |   |      |    |        | •    |
| Blood Gas    | Partial Pressure of Oxygen ( $PO_2$ )       | •    | •    |   |      |    |        |      |
|              | Oxygen Saturation ( $sO_2$ )*               | •    | •    |   |      |    |        |      |
| Specialty    | Lactate (Lac)                               | •    |      |   |      |    |        |      |

\*Calculated Value

| Features   | Benefits  |
|--|---|
| Acid-base, blood gas, electrolyte, chemistry, and hematology testing with one platform | Saves counter space and money while improving in-house testing capability                           |
| Easy-to-use  | Intuitive user interface that requires minimal operator training                                    |
| Portable, lightweight (1.9 lbs)  | Diagnose and treat at the point-of-care, whether out in the field or in the exam room               |
| Durability   | Robust construction suited for fast-paced environments  |
| Easy-to-replace rechargeable battery   | Always ready to use   |
| Small sample size—95 µL or less  | Provides the ability to test small or ill animals such as an anemic puppy or a fractious cat        |
| Speed: results in approximately 2-3 minutes  | Obtain results, diagnose, discuss with clients and begin treatment immediately at the point-of-care |
| Accurate and reliable  | Offers peace of mind to make quick and confident patient assessment                                 |
| Low maintenance  | Minimize additional costs and time  |
| Calibration not required   | Ensures reliable results and removes the need for costly external controls                          |
| Large high-resolution, color touch screen  | Enables simple, intuitive navigation  |
| On-screen assistance   | Reduces user errors and alleviates frustration  |
| Result notifications   | Sound, light, and color indicators show when results are in normal, abnormal, or critical range     |
| High-resolution camera   | Captures 2-D barcodes for patient ID, operator ID, and cartridge lot information                    |
| Advanced connectivity  | Wireless and wired connectivity options available   |

# VETSCAN VUE

Rapid Test Analyzer







An innovative approach to point-of-care testing right from your mobile device.

The VUE utilizes Wi-Fi technology to enable an automated process to Rapid testing at the point-of-care. Simply said, you can use the VetScan Rapid Test the way you normally do, or use the VUE to scan, interpret, and share the results.\*

## The future of veterinary medicine... Today.



The VUE can be operated from an iOS or Android mobile device.

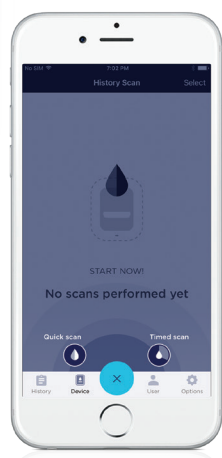
Simply download the app, connect to the VUE, perform a test, and share the result.

It's that simple.

Download.



Test.



Read.



Share.



\* The VetScan cPL Rapid Test must be performed with the VUE.

# A Veterinary Technician's Best Friend

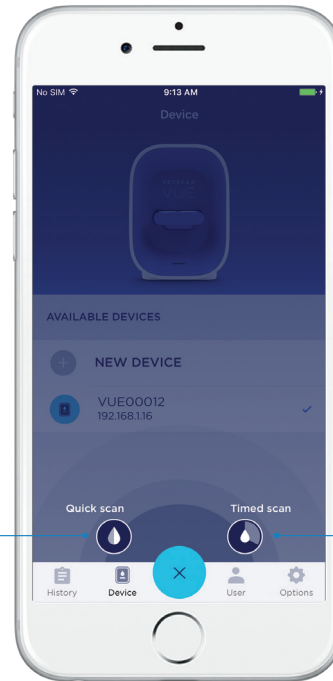
With your clinic's demanding schedule and workload, it's becoming more important to have lab devices that make everyone's job easier. The VUE's integrated timer and autoread functions do just that.



Simple Operation ▶

## Quick Scan

For multiple tests on a single patient, use the Quick Scan Mode to scan additional tests in seconds without re-entering patient information multiple times. Quick Scan Mode works well when using the entire VetScan Rapid Test menu and with busy practice workflows.



## Timed Scan

Timed Scan Mode let's the VUE do the work for you. Simply perform your test, insert it into the cassette holder, and let your VUE's integrated timer and auto interpretation take over. In 10 minutes, you'll be notified with your results on your mobile device.

| Features                      | Benefits   |
|-------------------------------|--|
| App-based platform            | Operate the VUE right from an iOS or Android mobile device   |
| Automated test interpretation | Get accurate and reproducible results consistent with visual reads, but without operator subjectivity                      |
| Integrated timer              | The Rapid Test is scanned for a result on time, every time, ensuring a read time is never missed                           |
| Flexible                      | Use all single, combo, or multiplex VetScan Rapid Tests in two different scan modes to meet the needs of practice workflow |
| No maintenance                | Innovative design eliminates any need for time-consuming maintenance   |
| Small footprint               | The small footprint makes it a welcome addition to any clinic's lab station  |
| Connectivity                  | With any Wi-Fi access point, the VUE can share test results to the patient's email or clinic workstation                   |

# VETSCAN *Rapid Tests*

Point-of-care Lateral Flow Tests





## Providing the flexibility you need at the point-of-care

The VetScan Rapid Test portfolio gives you more of what you want and less of what you don't want from a rapid test — more options, more confidence, less hassle, less waiting. They deliver exactly what you've come to know from Abaxis. The perfect balance of price and performance.



FLEX4 Rapid Test

| Features                 | Benefits  |
|--------------------------|---|
| Accurate                 | Highly sensitive and specific results, delivered through proven technology  |
| Extended shelf-life      | Confidently eliminate lost revenue on expired test kits   |
| Room temperature storage | Save fridge space and eliminate test warm-up time, while guaranteeing rapid results for your patients   |
| Affordable               | Pass on the savings to your clients and eliminate the cost of babysitting multi-step, overpriced test kits  |
| Flexible                 | Embrace the flexibility of single, combo, or multiplex testing based on clinical symptoms and disease prevalence specific to your geographic location |
| Simple                   | Three easy steps help eliminate unnecessary re-tests and minimize the margin for human error  |
| Rapid results            | Get results at the point-of-care in 8-10 minutes  |

### Sensitivity

How accurately the test can identify pets that have a specific disease.

### Specificity

How accurately the test can identify pets that don't have a specific disease.

| Test                                      | Sensitivity  | Specificity                     | Species | Test Type                       | Standard  |
|---|--|---------------------------------|---------|---------------------------------|---|
| ● Heartworm<br>200-1501/200-1502          | 92% n=49   | 100% n=49                       | Canine  | Antigen                         | Compared to necropsy verified samples.  |
| ● Lyme<br>510-0003-25                     | 100% n=100   | 100% n=50                       | Canine  | Antibody                        | Using validated ELISA reference method  |
| ● Ehrlichia<br>510-0002-25                | 93.4% n=212  | 96.7% n=214                     | Canine  | Antibody                        | <i>E. canis</i> sensitivity 97.8%; n=45<br><i>E. chaffeensis</i> sensitivity 95%; n=40<br><i>E. ewingii</i> sensitivity 97.9%; n=47<br>Using <i>E. canis</i> / <i>E. chaffeensis</i> IFA titer reference method |
| ● Anaplasma<br>510-0004-25                | 97.5% n=119  | 93.6% n=219                     | Canine  | Antibody                        | <i>A. phagocytophilum</i> 92.6%; n=27<br><i>A. platys</i> 93.9%; n=33<br>Agreement by any two: IFA, ELISA, or commercial kit  |
| ● FeLV/FIV<br>250-0000-10/<br>250-0000-25 | FeLV 96% n=93<br>FIV 99% n=114   | FeLV 99% n=140<br>FIV 97% n=110 | Feline  | Antigen/<br>Antibody            | Agreement by IFA and FeLV/FIV methodologies   |
| ● Parvo<br>230-0000-10/<br>230-0000-20    | 96.9% n=258  | 96.9% n=258                     | Canine  | Antigen                         | Compared to hemagglutination and PCR  |
| ● Giardia<br>240-0000-10/<br>240-0000-20  | 98.1% n=243  | 99.3% n=243                     | Canine  | Antigen                         | Compared to fecal wet mount and western blot  |
| ● cPL<br>510-0005-10                      | Data on file at <a href="http://www.abaxis.com/reference-center">www.abaxis.com/reference-center</a> |                                 | Canine  | Pancreas-<br>Specific<br>Lipase | Data on file at <a href="http://www.abaxis.com/reference-center">www.abaxis.com/reference-center</a>  |

Data submitted to and approved by USDA. cPL does not require USDA licensing.

# VETSCAN SA

Sediment Analyzer





VETSCAN  
SA



SA

## The future of urinalysis is here

The SA enables practitioners to perform urine microscopy with consistency, efficiency, reliability and accuracy at the point-of-care. Its high-resolution urine sediment images and classification capabilities improve laboratory workflow, efficiency, and precision. With an automatic maintenance feature, the VetScan SA delivers trouble-free operation and consistent performance all day, every day.

## 11 Classified Urinary Elements

### Blood Cells

- 1 Red Blood Cells
- 2 White Blood Cells

### Bacteria

- 3 Bacteria Rods
- 4 Bacteria Cocci

### Epithelial Cells

- 5 Squamous Epithelial Cells
- 6 Non-squamous Epithelial Cells

### Casts

- 7 Hyaline Casts
- 8 Non-hyaline Casts

### Crystals

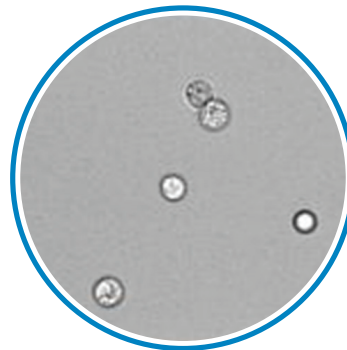
- 9 Calcium Oxalate Crystals
- 10 Struvite Crystals
- 11 Unclassified Crystals



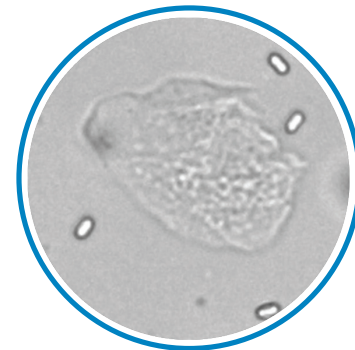
## Examples



Calcium Oxalate Crystal



Red Blood Cells



Epithelial Cell



| Features              | Benefits   |
|-----------------------|--|
| Simple Workflow       | Intuitive interface and analyzer design provide a more efficient urinalysis option for the staff and hospital            |
| Easy-to-use           | Automatically processes any urine sample with no pipetting or diluting required  |
| Low maintenance       | Minimal and automated maintenance features save time and eliminate staff frustration                                     |
| Reference lab quality | Uncentrifuged sample processing reduces inherent errors of sediment analysis   |
| High-quality imaging  | Built-in high-resolution microscope and CCD camera delivers stunning images every time                                   |
| Combined results      | Complete urinalysis report includes results from the VetScan UA and images captured by the SA                            |
| Advanced technology   | Automatically captures and reports images from quartz optical flow cell and classifies urine elements into 11 categories |
| In-house accuracy     | Prevent erroneous results caused by transit time for outside laboratory services by running sample at the point-of-care  |
| Detailed recognition  | Accurately identifies red blood cells, white blood cells, crystals, bacteria, casts, and epithelial cells                |

# VETSCAN UA

Urine Analyzer



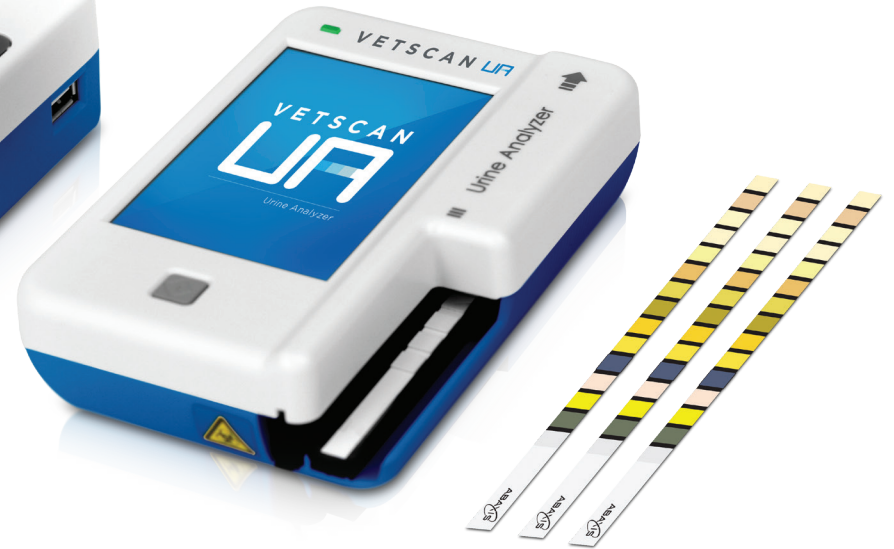


## with Microalbumin and Protein-Creatinine Ratio

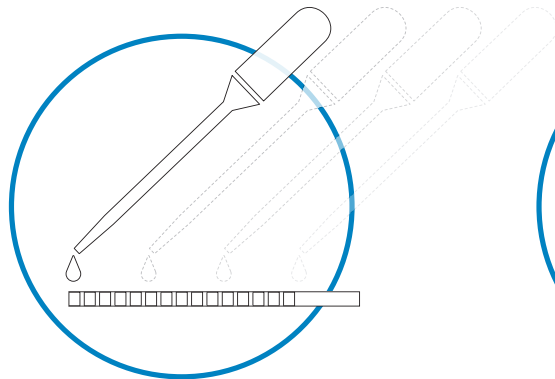
The UA is the first of a 2-part urinalysis solution consisting of the Abaxis Urine Chemistry and Sediment Analyzers. Portable, reliable, cost-effective, the UA makes urinalysis chemistry testing even easier and more reproducible! Combined with the SA Sediment Analyzer, you have the complete urinalysis solution you've been waiting for.

## 14 Analytes in 60 Seconds

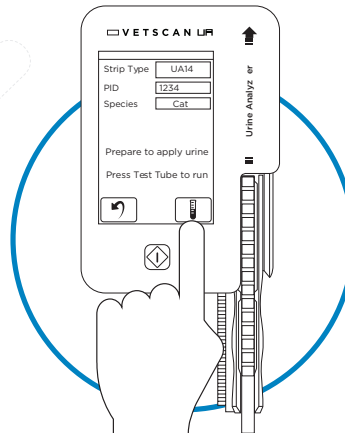
- Leukocytes
  - Ketone
  - Nitrite
  - Urobilinogen
  - Bilirubin
  - Glucose
  - Protein
  - Specific Gravity
  - pH
  - Blood
- Ascorbic Acid
  - **Microalbumin**
  - Calcium
  - Creatinine
  - **Protein:Creatinine Ratio (UPC)**
- UA14 strip only



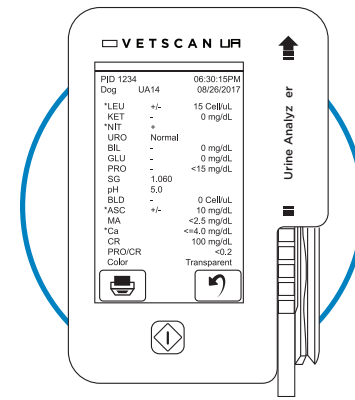
## Simple Operation



1 Place sample onto strip.



2 Start test.

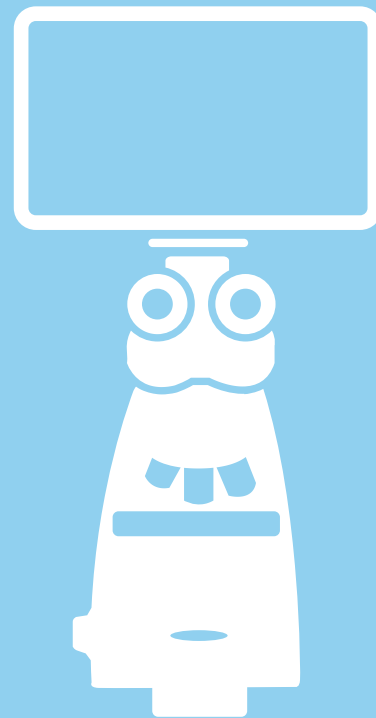


3 Read results.

| Features             | Benefits   |
|----------------------|--|
| Intuitive            | Easy touchscreen operation   |
| Fast                 | Only 1 minute per test strip   |
| Automated            | Automatically captures and reports UA test strip results                               |
| Easy-to-read results | Onscreen display or easy printing to a hand-sized printer                              |
| Accurate             | Highly reproducible, semi-quantitative urine chemistry results                         |
| Comprehensive menu   | Includes Urine Protein:Creatinine Ratio (UPC) and Microalbumin                         |
| Compatible           | UA results integrate with VetScan SA Sediment Analyzer into combined urinalysis report |

# VETSCAN HDmicroscope

Advanced Digital Imaging Solution





## More Than Just a Microscope

The HDmicroscope is the industry's only true multi-mode microscope. Multi-mode in the sense that this dynamic system can be used for multiple tasks in your clinic. These functions include:

- A lab bench microscope to read all slides
- A consulting and revenue generating imaging system to use for client consultations
- A digital capture system to document microscopy images and import to patient files
- A real-time imaging system allowing you to have pathology consults and second opinions

## HD Microscopy Camera & Monitor System Produce Beautiful Images

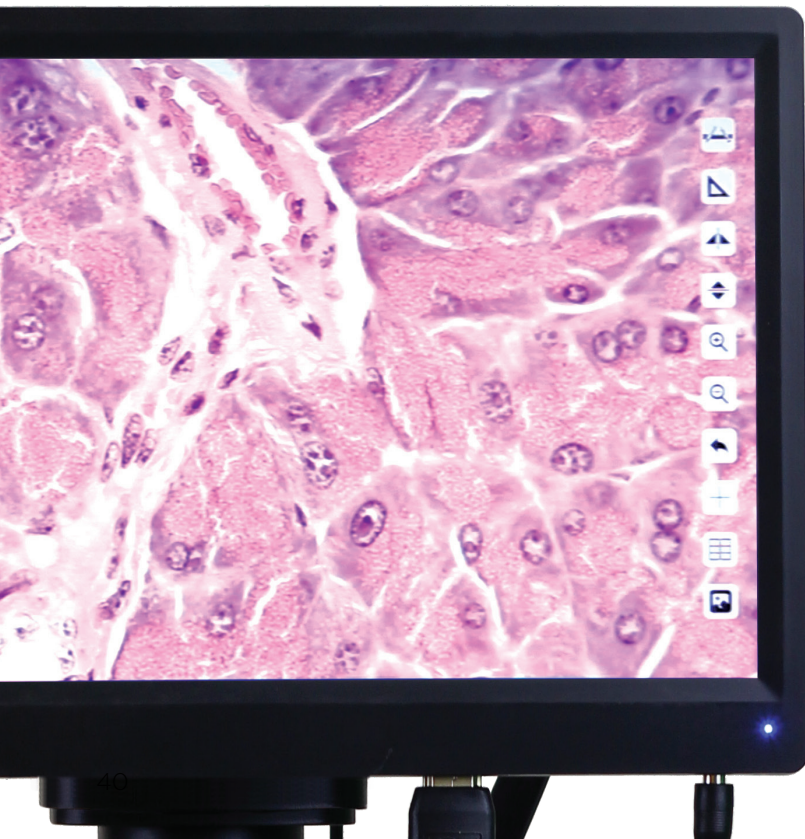
LED technology helps view and capture the most vibrant HD quality images.

### Superior Performance & Color

Built upon decades of microscopy and digital imaging experience, the HDmicroscope incorporates dual FPGA processors and unique algorithms that produce perfect color reproduction. The innovative technology of the HD camera offers Full 1080p 60fps video preview for HD output without any lag time or compression.

### Fluorescence Imaging

The ultra-high signal-to-noise ratio sensor allows the user to set exposure time from 1ms to up to 10 seconds and adjust 20 scales of gain value. And the incredibly efficient 3D noise reduction performance delivers detailed low light images making the HDmicroscope the optimal choice for fluorescence applications.



## All-In-One Solution Perfect For Single Use, Teaching, or Group Presentations

### Built-in Mouse Control Software for HDMI Viewing & Recording Without a Computer

The advanced design of the camera and monitor system features software inside the camera and an external HDMI port allowing users to connect directly to an HD monitor for live/real time viewing. It can also capture and save the images to an SD card without being connected to a computer. Additionally, this on-board software enables the user to control the camera with a click of the mouse rather than search for buttons on the camera, making the HDmicroscope the ideal choice for teaching, group presentations, or when a computer set-up is simply not an option.

### HDMI ~ 60fps / USB 2.0 ~ 30fps:

With 60fps HDMI and 30fps USB 2.0 data Transfer at 1920x1080 resolution, the Excelis HD camera is one of the fastest HD 1080p cameras on the market today!



| Features                | Benefits  |
|-------------------------|---|
| Trinocular design       | The trinocular eye tube accommodates the HD imaging system to create a complete fullscreen or splitscreen digital experience  |
| LED illumination        | Super bright daylight white LED and enhanced color correction provides stunning high resolution images that can be digitally captured and archived for patient files and consultation |
| Laboratory grade optics | Infinity PLAN Achromat objectives boost image quality and sharp focus from edge to edge   |
| Innovative design       | The adjustable tension and focus stop of the co-axial course and fine focus controls protects objectives and specimens  |
| Live HD video           | The high resolution-mega pixel color camera provides uncompressed full 1080p 60fps video for seamless live viewing, recording, or streaming   |
| Fluorescent imaging     | Highly adjustable exposure time and gain value make the VetScan HDmicroscope optimal for fluorescent imaging  |
| Built-in software       | On screen functionality right from the click of a mouse enhances your teaching or consultation experience   |
| User friendly           | With parfocal lenses, auto-gain and exposure, a change in magnification delivers a perfect picture every time   |
| Turnkey assembly        | Virtually no assembly and ready-to-use right out of the box   |
| 1 year warranty         |   |

# VETSCAN FUSE

The connection between practice and patient

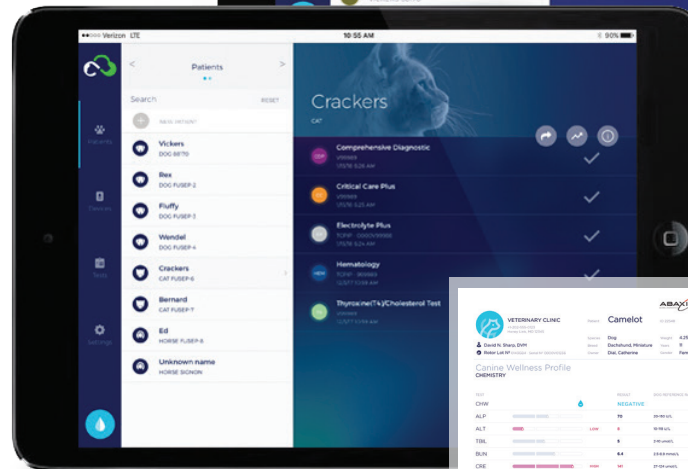
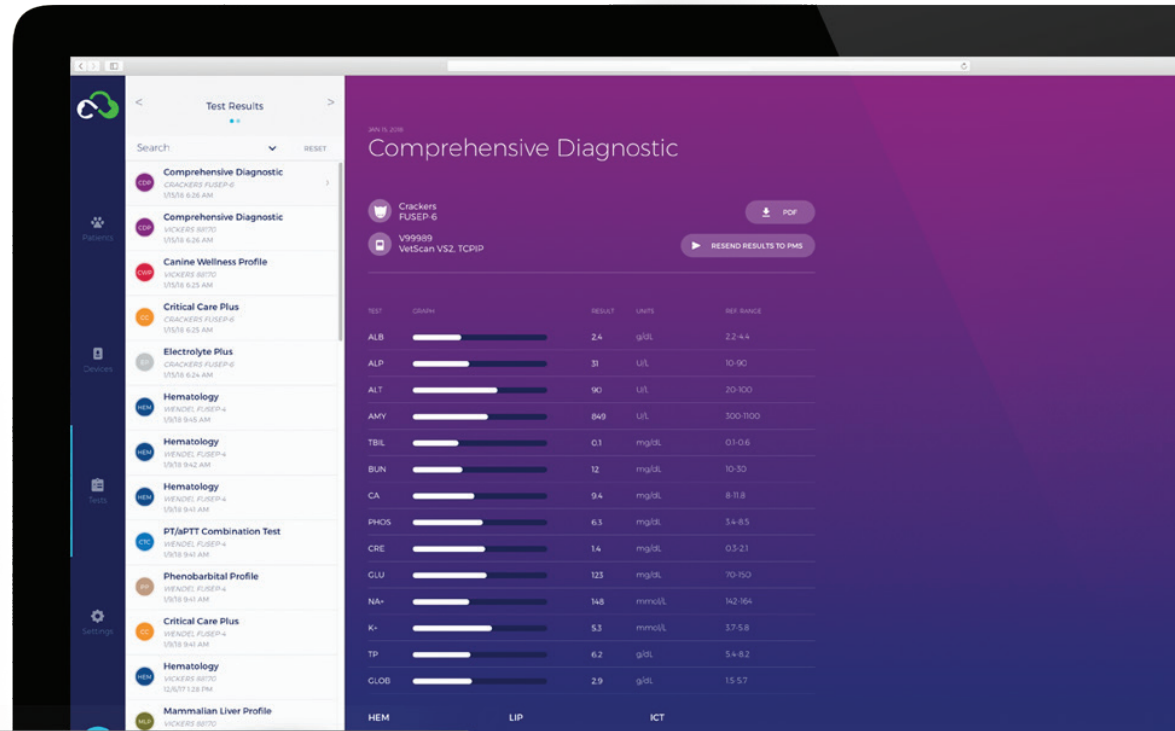




## Presentation is Everything

Create a truly revolutionary connection between you, your Abaxis Diagnostic Laboratory and your patients.

FUSE empowers you to have more meaningful conversations with pet owners and builds the value of diagnostics by sharing dramatically enhanced test results on a variety of devices in your practice and beyond.



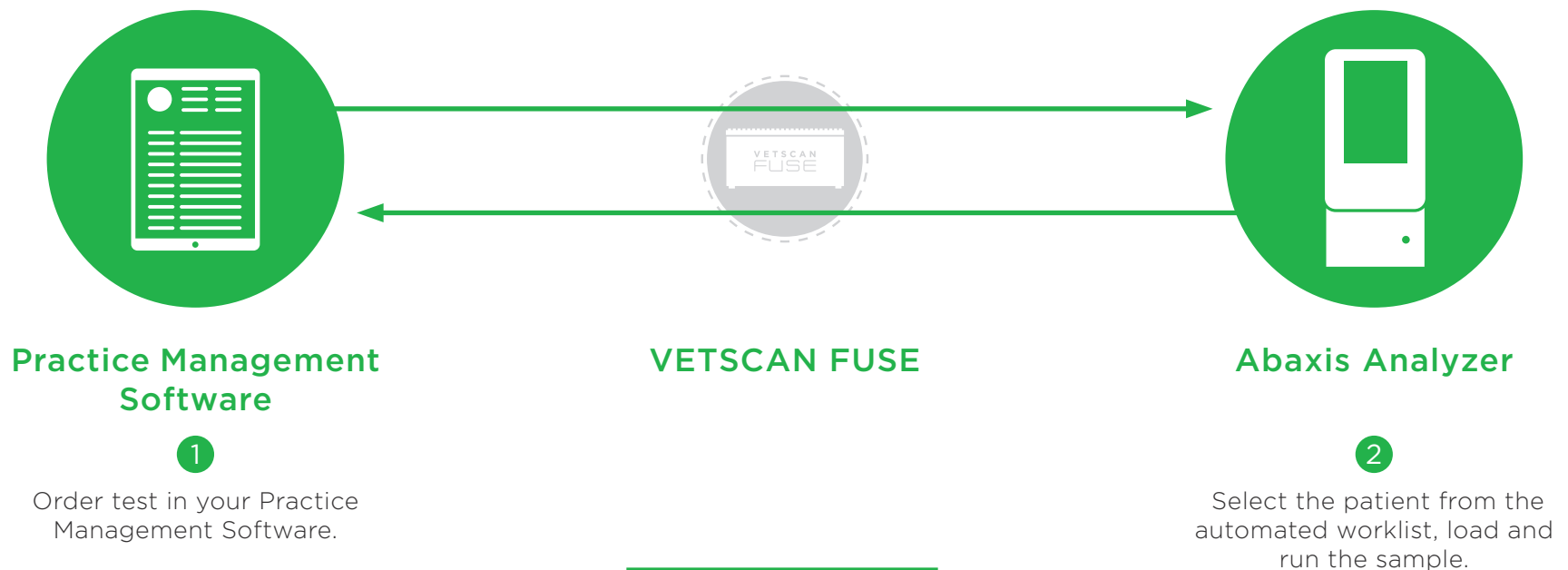
Downloadable PDF results in your inbox.

Seamless integration with your practice management software.

# BI-DIRECTIONAL INTEGRATION

← FUSE WORKFLOW →

Simple 2 step workflow



True back and forth communication.

Results are automatically received and matched with the order in the Practice Management Software.

Simple workflow. No missed charges.



| Features           | Benefits  |
|--------------------|---|
| Seamless workflow  | Experience bi-directional integration between Abaxis point-of-care analyzers and veterinary Practice Management Systems |
| Efficient          | Eliminate manual steps and ensures no lost billing charges  |
| Presentation value | Access stunning displays of patient results from any device in your clinic  |
| Built-in trending  | Use result trending to engage your pet owners in meaningful conversations around their pet's diagnostic trends          |

Ask your practice management vendor if they are **FUSE Enabled**.





## Abaxis Truly Delivers

With state-of-the-art on-site diagnostics, single-use rapid tests, and practice solutions, Abaxis offers a trusted single source for all of your laboratory needs.

Inspired by you. **Innovated by Abaxis.**





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GLOBAL DIAGNOSTICS

