

VETSCAN

ABAXIS

Comprehensive Diagnostics at the Point-of-Care and beyond



Accurate. Reliable. Innovative. Easy.

zoetis



Veterinary Innovation at the Point-of-Care.

The VETSCAN portfolio gives you more of what you want and less of what you don't need. Now you have more options, more confidence, easy handling and fast results. VETSCAN delivers exactly what you've come to know from Zoetis. It's the perfect balance of price and performance.

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VETSCAN VS2

Chemistry Analyser



VS2



Comprehensive Clinical Chemistry Results for Point-of-Care Diagnostics

The VETSCAN VS2 is amazingly simple and intuitive. It features an advanced user interface and precise reference laboratory quality results in 12 minutes from 100 µl of whole blood, serum or plasma. The VS2 is ideal for veterinary practices, clinics and research laboratories.

Accuracy and Precision – With Ease

Three easy steps for results in minutes



Add sample



Insert rotor



Read results



Start



12 min.

All Components Check



The VETSCAN® VS2 chemistry analyser has an extremely sophisticated intelligent Quality Control (iQC®) system and proprietary algorithms that assure quality and dependable results. iQC is a series of automatic checks that verify the chemistry, optics and electronic functions of the analyser during each run. iQC guarantees that in any environment only accurate and precise results are reported.



Analyser



Reagents



Sample



Benefit from Point-of-Care Diagnostic



Features

Chemistry, Electrolyte, Immunoassay and Blood gas with 1 simple instrument

Accuracy comparable to reference laboratories

Speed: 12 minutes to results

Intelligent Quality Control (iQC®)

100 µl sample size
• whole blood • serum • plasma

Specialty tests available

Maintenance-free

Complete portability

Set and archive reference ranges

Stores 5,000 patient records

Detects haemolysis, Lipaemia and icterus

Connectivity

Benefits

Save time, counter space and money while improving in-house testing

Offers peace of mind in diagnosing and treating patients appropriately

Obtain results, diagnose, discuss with clients and begin treatment within one visit

iQC® monitors the analyser, rotor and sample before and during every analysis to ensure reliable results

Test a full chemistry profile using only three drops of sample from multiple species – vital in smaller patients

Total T4, Bile Acid, tCO₂, UA and Canine Heartworm on rotor profile saves time and money; no need to send out blood work or running multiple tests

Reduce your costs and save time:

- No internal cleanings needed
- No sample preparation — test whole blood

The 5.3 kg analyser can be used anywhere and anytime

Enter your own species reference intervals as well as archive ranges for later use

Easy patient data recall













Reporting levels of HEM, LIP and ICT provides useful information on patient samples

Connect multiple tools such as a printer, a keyboard and a LIS using four available USB ports

A full range of on-site tests, outside the lab

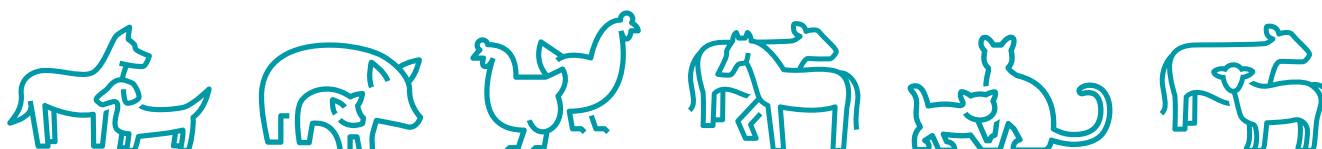
Comprehensive test portfolio



VETSCAN VS2 Profiles		Analytes
	Comprehensive Diagnostic Profile	ALB, ALP, ALT, AMY, BUN, Ca, CRE, GLOB*, GLU, K ⁺ Na ⁺ , PHOS, TBIL, TP
	Preventive Care Profile Plus	ALB, ALP, ALT, AST, BUN, Ca, Cl ⁻ , CRE, GLOB*, GLU, K ⁺ , Na ⁺ , TBIL, tCO ₂ , TP
	Prep Profile II	ALP, ALT, BUN, CRE, GLU, TP
	Electrolyte Plus	Cl ⁻ , K ⁺ , Na ⁺ , tCO ₂
	Critical Care Plus	ALT, BUN, Cl ⁻ , CRE, GLU, K ⁺ , Na ⁺ , tCO ₂
	Kidney Profile Plus	ALB, BUN, Ca, Cl ⁻ , CRE, GLU, K ⁺ , Na ⁺ , PHOS, tCO ₂
	T4/Cholesterol Profile	CHOL, T4
	Phenobarbital Profile	ALB, ALP, ALT, AST, BUN, GGT, PHB, TBIL
	Mammalian Liver Profile	ALB, ALP, ALT, BA, BUN, CHOL, GGT, TBIL
	Equine Profile Plus	ALB, AST, BUN, Ca, CK, CRE, GGT, GLOB*, GLU, K ⁺ , Na ⁺ , TBIL, tCO ₂ , TP
	Avian/Reptilian Profile Plus	ALB, AST, BA, Ca, CK, GLOB*, GLU, K ⁺ , Na ⁺ , PHOS, TP, UA
	Large Animal Profile	ALB, ALP, AST, BUN, Ca, CK, GGT, GLOB*, Mg, PHOS, TP

*Calculated Value

For a wide variety of animals



VETSCAN HM5

Haematology Analyser



HM5



Comprehensive Haematology Analysis with 5-part Differential

The VETSCAN® HM5 is a fully automated 5-part cell counter offering a comprehensive 22-parameter Complete Blood Count (CBC) with cellular histograms in minutes. Its superior performance, ease of use, and minimal maintenance make the HM5 the ideal haematology system for veterinary practices, clinics and research laboratories.

Accuracy and Precision – With Ease

Three easy steps for results in minutes



Enter information



Insert sample



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 well 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

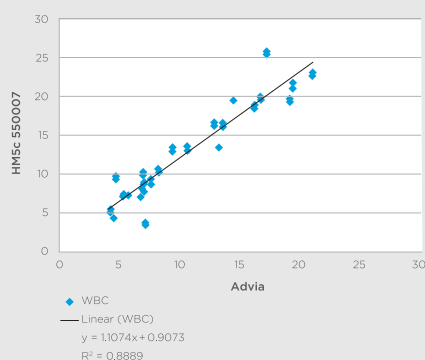


Figure 1b
Canine LYM

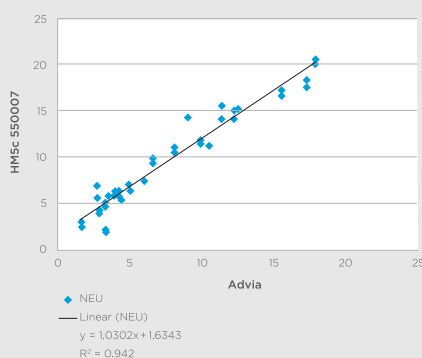
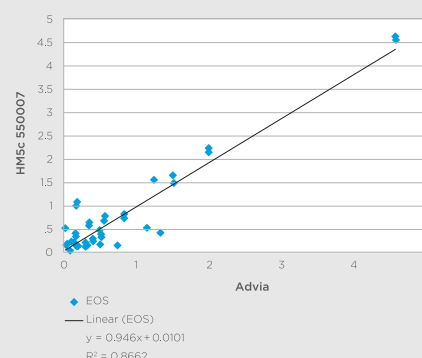


Figure 1c
Canine EOS



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 Analyser provides reproducibility you can count on.



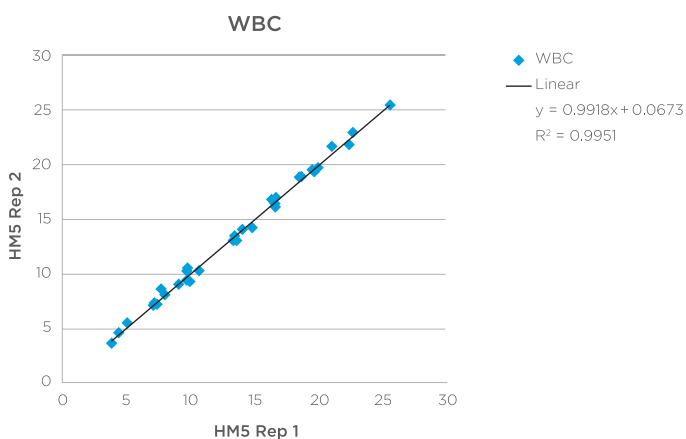
The following table shows the total variation shown across one normal control sample run 10 times over five days on one analyser. All the CVs are extremely low — some of the lowest variability in the veterinary haematology marketplace. All of these samples were run with normal level controls.

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.



Benefit from Point-of-Care Diagnostic

Features

5-part differential on most common species

22 parameters, including direct eosinophil count and eosinophil percentage

25-50 µl sample size

Less than 4 minutes to results

Contains pre-dilute mode for challenging samples

Stores 5,000 records in database

Eco-friendly, cyanide-free reagents

USB and ethernet ports

Integrates with common practice management systems

Fully automated

Validated for peritoneal and synovial fluids

Data trend feature

Benefits

Provides you a full CBC analysis including direct EOS measurements

Enables you in-house CBCs for even allergic and parasitic cases

Ideal for small or young animals

Rapid turnaround time — run nearly 20 samples per hour in five-part mode

Get accurate results even for concentrated or low-volume samples

Easy database backup and access

Simplified reagent handling

Easy loading of software upgrades or archiving of data

Solutions available to fit with your lab workflow

Advanced, integrated self-cleaning system. Minimal maintenance facilitated by software reminders and step-by-step instructions

In clinic fluid evaluation and therapy monitoring (e. g. inflammation, infection and oncology cases)

Displays patients' blood count values over time on a graph, allowing you to easily track their progress

VETSCAN VSpro

Specialty Analyser



VSpro



Blood Clotting Assessment and Inflammation Detection

The VETSCAN VSpro is an analyser that is useful to veterinarians of any specialty. The PT/aPTT and fibrinogen tests currently offered on the VETSCAN 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.

Accuracy and Precision – With Ease

Three easy steps for results in minutes



**Insert cartridge
and enter patient
information**



**Add sample
to cartridge**



Read results

Presurgical and Critical Care in your office or barn-side



Coagulation Testing

The VETSCAN VSpro Specialty Analyser offers a combination assay (PT and aPTT) for canine and feline coagulation testing. Get precise, accurate PT and aPTT results from 1-2 drops of citrated whole blood in minutes prior to surgery.



Fibrinogen Testing

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



Benefit from Point-of-Care Diagnostic



Features

On-site specialty analyser

Rapid turnaround time

Easy-to-use

Small sample size (<100 µL)

Cost effective

Low maintenance

Stores 1,000 test results

Connectivity

Benefits

Results available on-site, in minutes

Especially important for critical patients and/or health monitoring

Minimal hands-on time, easy-to-understand user interface (similar to the VS2)

Less blood needed from patient, decreased stress

Save on cost per test, maintenance and time to results compared with other methods

No maintenance, self-contained analyser with disposable cartridges

Recall and search results in an instant by patient ID, patient name, date or test type

FUSE enabled



Features

Coagulation Testing

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



Fibrinogen Testing

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 analyser

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.

Benefits

VETSCAN HDmicroscope

Advanced Digital Imaging Solution



HD
microscope



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

Produce Beautiful Images

HD Microscopy Camera & Monitor System

Superior Performance & Colour

Built upon decades of microscopy and digital imaging experience, the HDmicroscope incorporates dual FPGA processors and unique algorithms that produce perfect colour 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.



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



Produce Beautiful Images



All-in-one solution 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!

Benefit from Point-of-Care Diagnostic

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 colour 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 colour 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

VETSCAN UA

Urine Analyser



UA

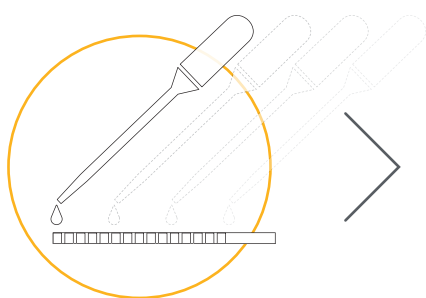


Urinary Kidney and Metabolic Health Screening

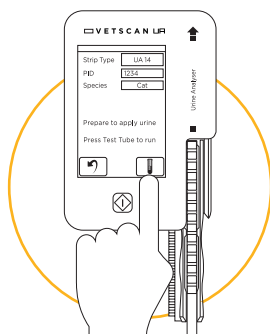
The VETSCAN UA brings reliable, cost-effective veterinary urinalysis chemistry testing to the palm of your hand in a battery operated, lightweight and portable solution. It is the first of a 2-part urinalysis solution consisting of the Urine Chemistry and Sediment Analysers. Combined with the SA Sediment Analyser, you have the complete urinalysis solution you've been waiting for.

Real Advantages in the Palm of Your Hand

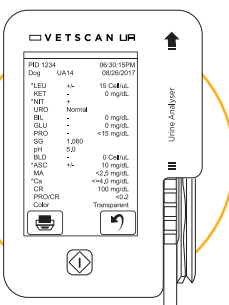
Get 14 analytes in 60 seconds



Place sample
onto strip



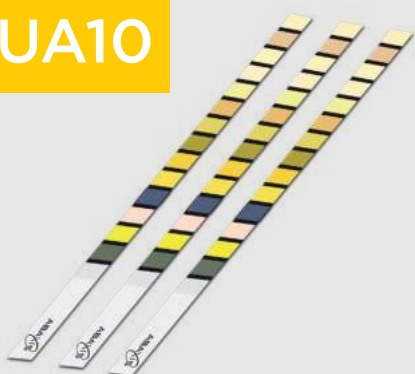
Start test



Read results

VETSCAN UA Strips

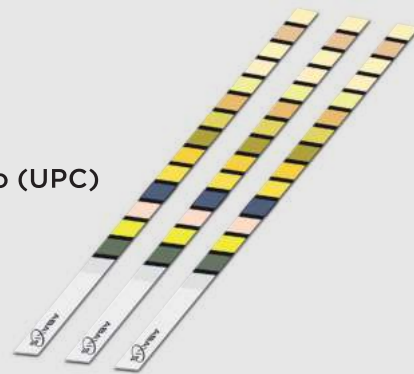
UA10



UA14

Including

- Protein:Creatinine Ratio (UPC)
- Microalbumin



Components of the system

Consumables

Analytes		UA10 Strip	UA14 Strip
Leukocytes	LEU	•	•
Ketone	KET	•	•
Nitrite	NIT	•	•
Urobilinogen	URO	•	•
Bilirubin	BIL	•	•
Glucose	GLU	•	•
Protein	PRO	•	•
Specific Gravity	SG	•	•
pH	PH	•	•
Blood	BLD	•	•
Ascorbic Acid	ASC		•
Microalbumin	MA		•
Calcium	CA		•
Creatinine	CRE		•
Protein:Creatinine Ratio (UPC)	PRO/CRE		•

- Analyser
- Test Strips
- Portable printer



Benefit from Point-of-Care Diagnostic

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 Analyser into combined urinalysis report

VETSCAN SA

Sediment Analyser



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.

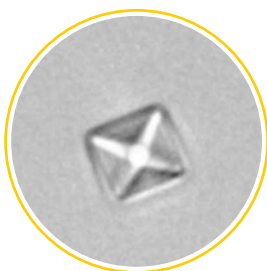
Accuracy and Precision – With Ease

11 Classified Urinary Elements

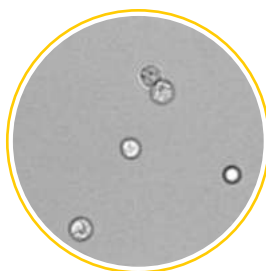
Blood Cells
Red Blood Cells White Blood Cells
Bacteria
Rods Cocci
Epithelial Cells
Squamous Epithelial Cells Non-squamous Epithelial Cells
Casts
Hyaline Casts Non-hyaline Casts
Crystals
Calcium Oxalate Crystals Struvite Crystals Unclassified Crystals



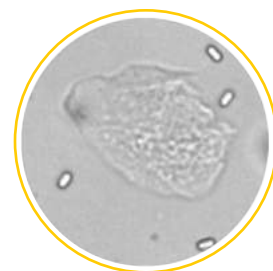
Examples of Images



Calcium Oxalate
Crystal



Red Blood Cells



Epithelial Cell

Benefit from Point-of-Care Diagnostic

Features

Simple Workflow

Easy-to-use

Low maintenance

Reference lab quality

High-quality imaging

Combined results

Advanced technology

In-house accuracy

Detailed recognition

Benefits

Intuitive interface and analyser design provide a more efficient urinalysis option for the staff and hospital

Automatically processes any urine sample with no pipetting or diluting required

Minimal and automated maintenance features save time and eliminate staff frustration

Uncentrifuged sample processing reduces inherent errors of sediment analysis

Built-in high-resolution microscope and CCD camera delivers stunning images every time

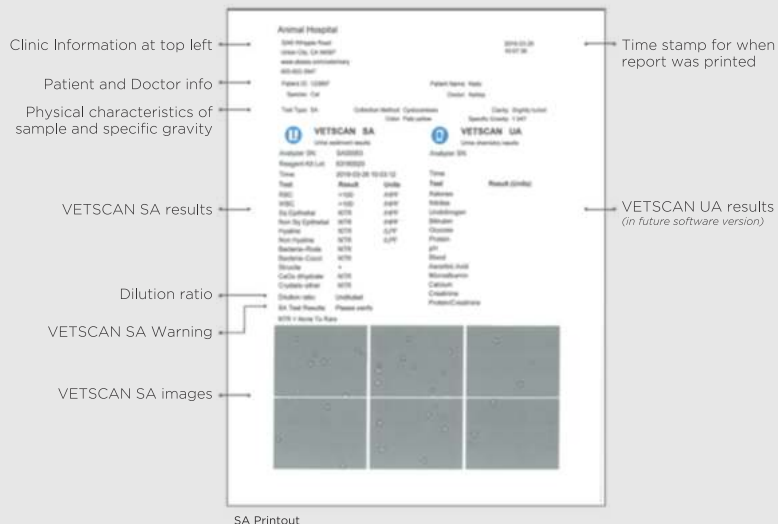
Complete urinalysis report includes results from the VETSCAN UA and images captured by the SA

Automatically captures and reports images from quartz optical flow cell and classifies urine elements into 11 categories

Prevent erroneous results caused by transit time for outside laboratory services by running sample at the point-of-care

Accurately identifies red blood cells, white blood cells, crystals, bacteria, casts, and epithelial cells

Complete urinalysis report includes results from the VETSCAN UA and images captured by the VETSCAN SA



i-STAT Alinity v

Handheld Analyser



i-STAT
Alinity v

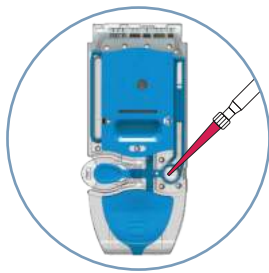


The Five-in-One* Testing Platform

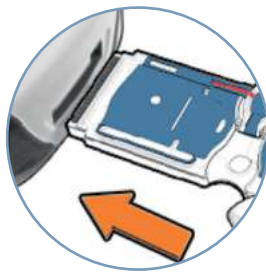
The i-STAT Alinity v is an advanced, easy-to-use, portable analyser that delivers real-time, lab-quality results from 2-3 drops of whole blood in 2-3 minutes – making it the ideal solution for critical care situations, emergency hospitals, exotic animals, and research needs at the point-of-care.

Proven Technology – Now More Intuitive Than Ever

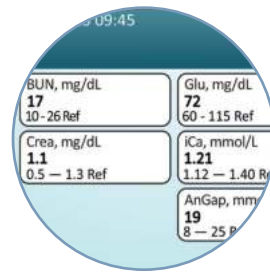
Simple Operation



**Fill cartridge
to fill line**



Insert cartridge



**Read results
on screen
in 2-3 minutes**

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

* Acid-base,
Blood gas,
Electrolyte,
Chemistry, and
Haematology








Results to go

- A wide range of disposable cartridges, providing you with all the information you need to make a quick and confident patient assessment at the point of care.
- Built-in calibration and quality controls offer accurate results and peace of mind.

On-site tests, outside the lab

Cartridge test menu



Cartridges		Analytes
	CG4+	pH, pCO ₂ , HCO ₃ [*] , tCO ₂ [*] , Base Excess [*] , pO ₂ , sO ₂ [*] , Lactate
	CG8+	Hct, Hgb [*] , iCa ⁺⁺ , GLU, Na ⁺ , K ⁺ , pH, pCO ₂ , HCO ₃ [*] , tCO ₂ [*] , Base Excess [*] , pO ₂ , sO ₂ [*]
	G	GLU
	Crea	CRE
	E3+	Hct, Hgb [*] , Na ⁺ , K ⁺ , Cl ⁻
	6+	Hct, Hgb [*] , BUN, GLU, Cl ⁻ , Na ⁺ , K ⁺
	EC8+	Hct, Hgb [*] , BUN, GLU, Cl ⁻ , Na ⁺ , K ⁺ , pH, pCO ₂ , HCO ₃ [*] , tCO ₂ [*] , Anion Gap [*] , Base Excess [*]

* Calculated Value

Benefit from Point-of-Care Diagnostic

Features

Benefits

Acid-base, blood gas, electrolyte, chemistry, and haematology 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 (Approx 1kg)	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 anaemic 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	Minimise additional costs and time
Calibration not required	Ensures reliable results and removes the need for costly external controls
Large high-resolution, colour touch screen	Enables simple, intuitive navigation that reduces user errors and alleviates frustration with on-screen assistance
Advanced connectivity	Wireless and wired connectivity options available

VETSCAN VUE

Rapid Test Analyser



VUE



An Innovative Approach to Point-of-Care Testing Right From Your Mobile Device.

The VETSCAN VUE utilises 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 VETSCAN VUE to scan, interpret, and share the results.

A Veterinary Technician's Best Friend

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 lets 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.



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.



Benefit from Point-of-Care Diagnostic



Features

App-based platform

Automated test interpretation

Integrated timer

Flexible

No maintenance

Small footprint

Connectivity

Benefits

Operate the VUE from an iOS or Android mobile device

Get accurate, reproducible results consistent with visual reads, without operator subjectivity

The Rapid Test is scanned for a result on time, every time, ensuring a read time is never missed

Use all single or combo VETSCAN Rapid Tests in two different scan modes to meet the needs of practice workflow

Innovative design eliminates any need for time-consuming maintenance

The small footprint makes it a welcome addition to any clinic's lab station

With a Wi-Fi access point, the VUE can email the results to the patient or practice

The VETSCAN cPL Rapid Test works with the VETSCAN VUE to provide in-house results for pancreatic cases



VETSCAN cPL Rapid Test

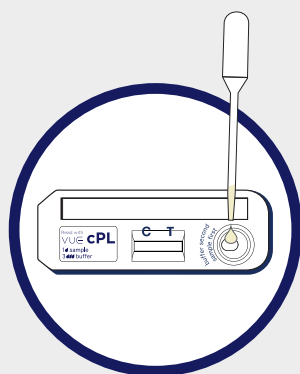


10 minutes to read the result with the VETSCAN VUE

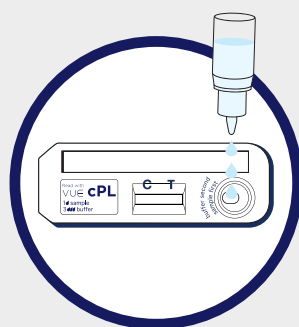


The VETSCAN Canine Pancreatic Lipase (cPL) Rapid Test is a highly sensitive and specific semi-quantitative immunoassay for the detection of pancreas-specific lipase in canine serum or plasma.

Test Instructions



Add 1 drop of serum or plasma to the sample well.



Add 3 drops of Chase Buffer to the sample well.



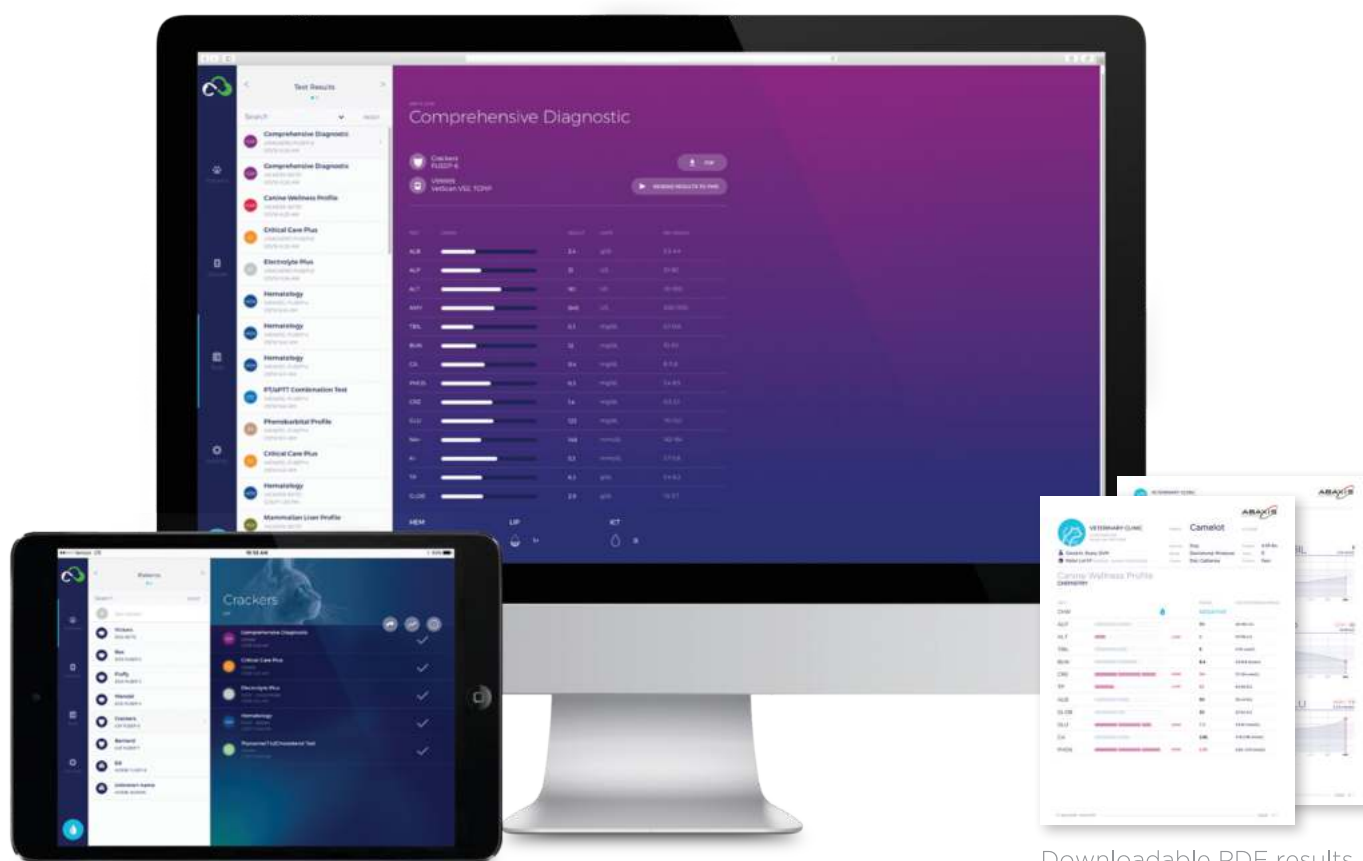
Insert cassette into VUE. Initiate a *Timed Scan* in the VUE app. Check mobile device display for numeric result when timer completes.

VETSCAN FUSE

The connection between practice and patient



FUSE



Downloadable PDF results
in your inbox.

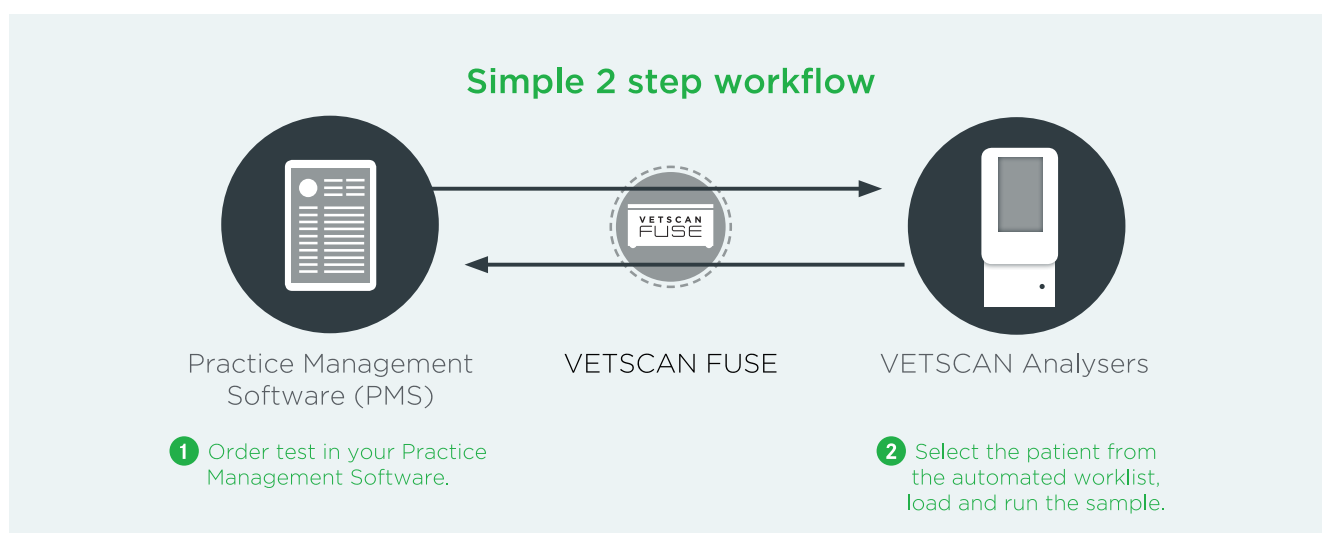
Better presentation – wherever, in seconds

Create a truly revolutionary connection between you, your VETSCAN Diagnostic Laboratory and your patients. The FUSE system, while connected to one or more VETSCAN analysers that are FUSE enabled, can integrate with a Practice Management System or operate in stand-alone mode to provide enhanced options for patient tracking.

Seamless integration with your practice management software



Bi-directional integration



Features

Bi-directional integration

Efficient

Presentation value

Built-in trending

Benefits

Experience smart integration between VETSCAN analysers and veterinary Practice Management Systems

Eliminate manual steps and ensure no lost billing charges

Access stunning displays of patient results from any device in your clinic

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**.



Veterinary Innovation at the Point-of-Care.



Notes

