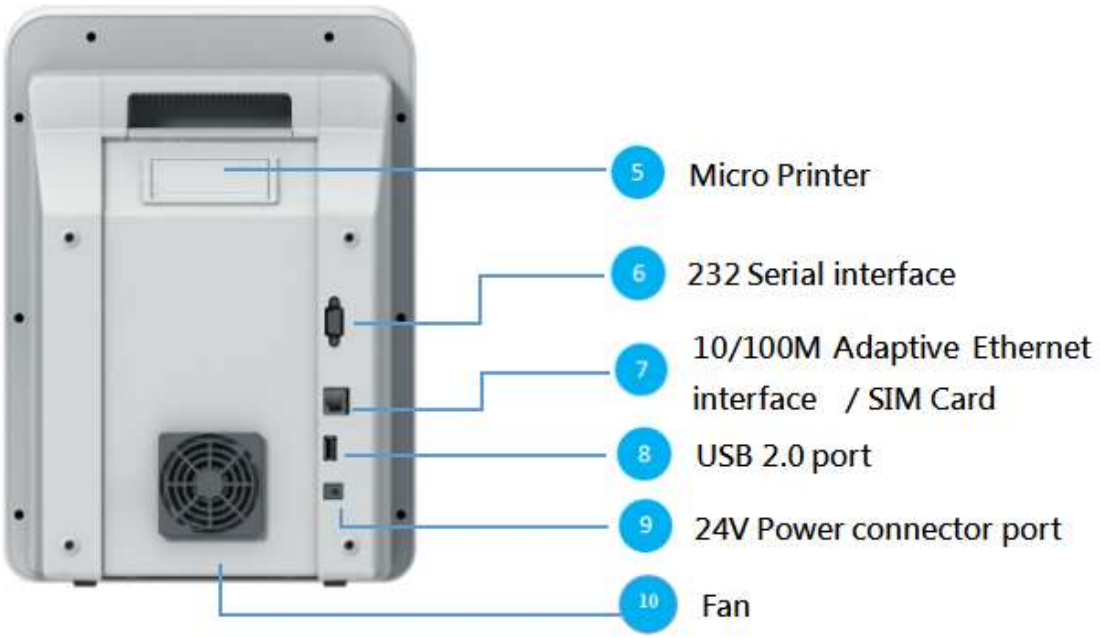
WOODLEY
EQUIPMENT COMPANY LTD.

InSight V-CHEM Quick Reference Guide

Quick Reference Guide Contents

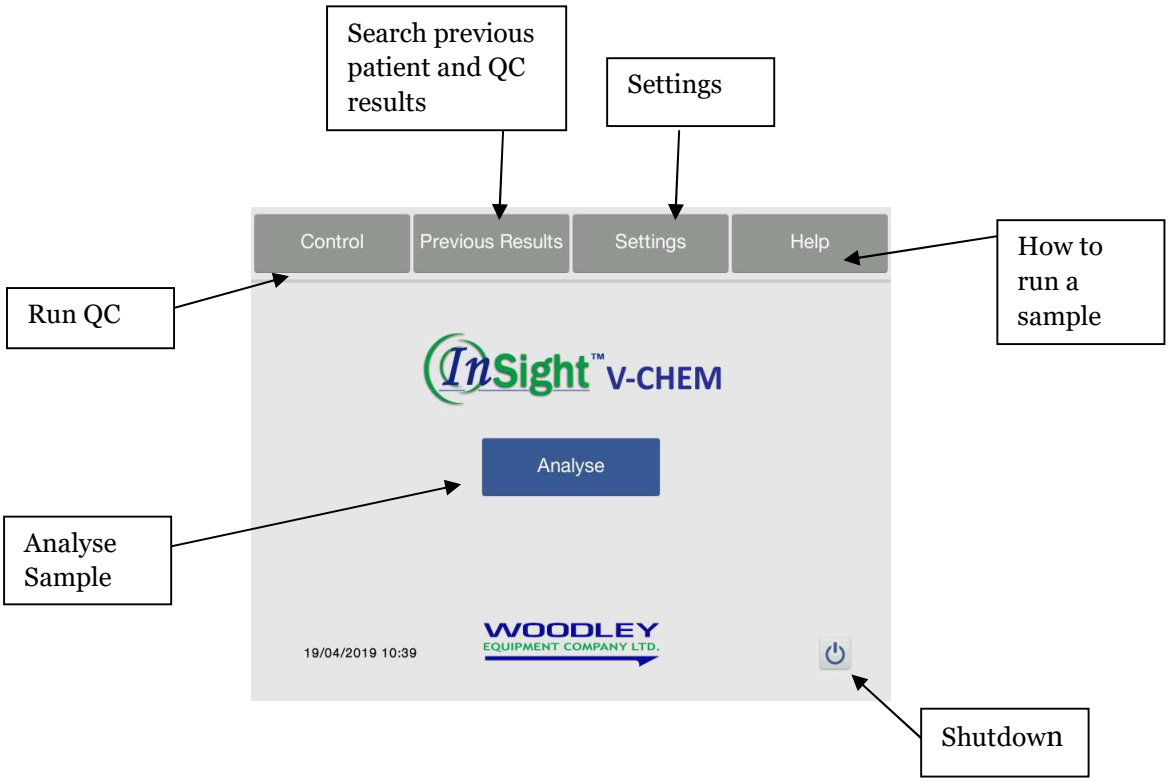
This document is a quick reference guide. For more comprehensive information please refer to your InSight V-CHEM Operator's Manual

External features of the analyser



This document is a quick reference guide. For more comprehensive information please refer to your InSight V-CHEM Operator's Manual

InSight V-CHEM Function Buttons



Warning – To avoid scratching the screen do not use sharp or hard objects to touch the screen

Testing a sample

Sample Preparation

- Sample type - Serum, Lithium-Heparinised Whole blood or Plasma
- Sample Volume - 100ul per test panel
- Testing must be conducted within 60 minutes (at room temperature)
- To prevent haemolysis of the sample, do not refrigerate, freeze, or shake whole-blood sample.
- Plasma or serum can be stored at Room Temp for 5 hours prior to testing or up to 48 hours if stored at 2-8C

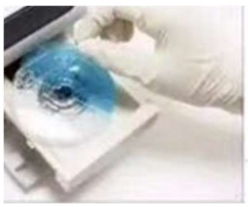
Rotor Preparation

- Rotors should be stored at 2-8C and can be used straight from the refrigerator without the need for warming
- Avoid placing unopened reagent discs in temperatures greater than 25C (77F) for more than 48 hours.

1. Before using a reagent disc, carefully check the foil pouch for any damage. Tear open the package from the upper right side of the pouch.
2. Remove the reagent disc gently with finger and thumb
3. After removal use your other hand to hold the disc by the edge. **Avoid contact with disc surface where optical measurement takes place.**
4. Check the reagent disc for any damage – do not use reagent discs that have been dropped or damaged.
5. After opening the pouch, the disc **must be used within 20 minutes**. **Do not place the disc back in the refrigerator for later use**.
6. Remove the foil tab from the rotor to release the diluent by pulling the tab at a 45° angle.

Dispensing the sample

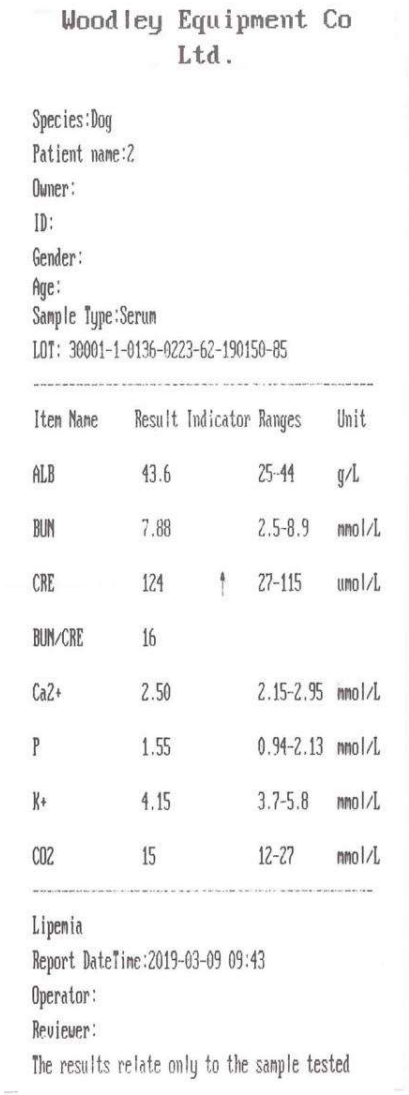
1. Attach a new pipette tip to the end of the 100ul pipette provided. Do not touch the end of the tip.
2. Using your thumb push down the plunger on the top of the pipette to the stop position.
3. Immerse the pipette tip below the surface of the sample.
4. Slowly release the plunger to draw up the sample, avoid drawing in any air, as this will cause the disc to fail.
5. Remove the pipette from the sample tube.
6. Insert the pipette tip into the sample port (indicated by a red triangle) on the rotor
7. Keep the reagent disc level and hold the pipette at a 45-degree angle to the surface of the disc.
8. Gently push down the plunger at the top of the pipette to the stop position. All of the sample should have been expelled into the sample chamber. Keeping the plunger held down gently remove the pipette tip from the sample port. The plunger may now be released, remove the disposable tip from the pipette and discard the tip.
9. Press the **Analyse** icon on the touch screen
10. Select the sample type (whole blood, serum or plasma)
11. When indicated on the screen, Scan the QR code on the foil pack that the rotor came in
12. Hold a reagent disc that contains a sample by its edge and the disc kept level. Avoid touching the surface of the reagent disc. Place the disc into the drawer until it clicks and gently remove the blue film, press **Close** to close the disc drawer.



13. Press the 'Yes' icon to confirm the blue film has been removed.
14. Use the touch screen to enter the species and Patient ID
15. The fully automated analysis will now commence once the disc drawer closes
16. When the analysis is completed, the system will store the analysis results and display them on the screen.

To cancel a test in progress, press the X icon on the screen, the system will prompt for confirmation. **A reagent disc cannot be re used if a test has been cancelled.**

Interpreting the results



Woodley Equipment Co Ltd.

Species:Dog
Patient name:2
Owner:
ID:
Gender:
Age:
Sample Type:Serum
LOT: 30001-1-0136-0223-62-190150-85

Item Name	Result	Indicator	Ranges	Unit
ALB	43.6		25-44	g/L
BUN	7.88		2.5-8.9	mmol/L
CRE	124	↑	27-115	umol/L
BUN/CRE	16			
Ca2+	2.50		2.15-2.95	mmol/L
P	1.55		0.94-2.13	mmol/L
K+	4.15		3.7-5.8	mmol/L
CO2	15		12-27	mmol/L

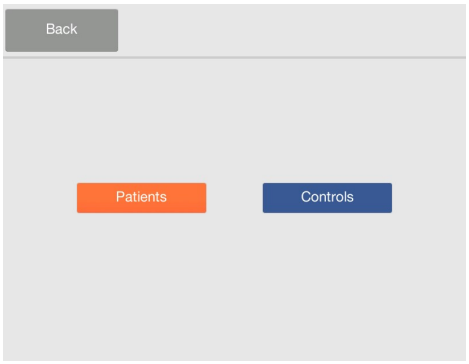
Lipemia
Report DateTime:2019-03-09 09:43
Operator:
Reviewer:
The results relate only to the sample tested

A typical report printout is shown above. The heading of a report printout includes information such as Sample Patient Name, Owner Name, ID Number, Gender, Age, Sample Type and rotor Lot Number. The test results section is printed in five columns: Analyte Name, Analyte Result, Indicator, Reference Range and Specified Units. The end of the report printout includes information such as the sample indices, test date and time and blank areas for the operator and reviewer to sign.

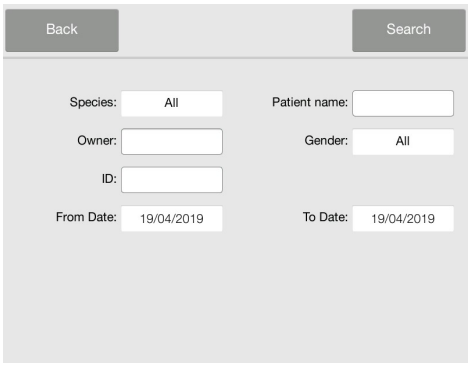
Accessing Previous Results

The InSight V-CHEM automatically stores tests results for display, printing or Export to a computer.

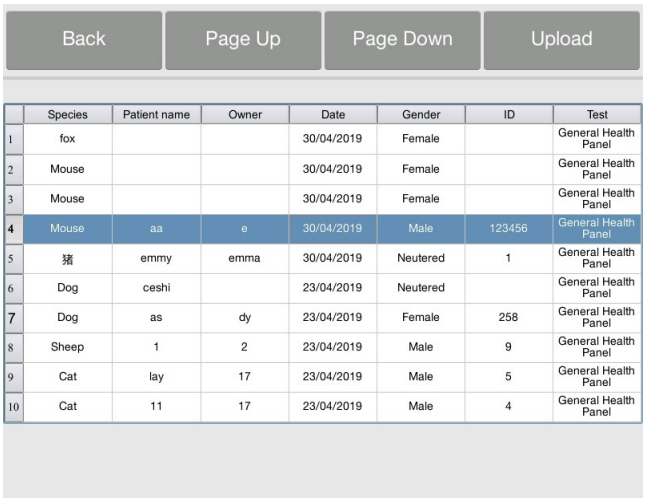
To access previous results: From the Home Screen > press ‘Previous Results’ then select patients.



Enter the patient ID or time range to search for the result.



The analyser will display all results as filtered, use the up and down arrows to scroll through the list.

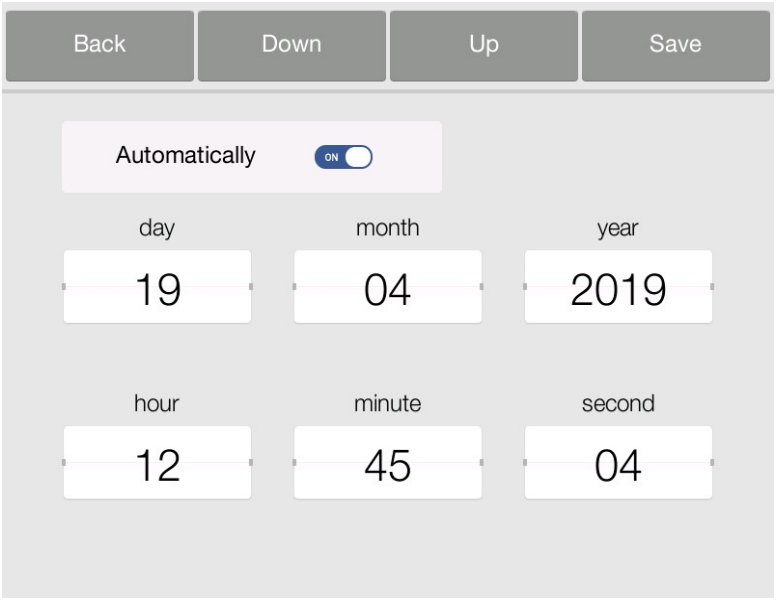


	Species	Patient name	Owner	Date	Gender	ID	Test
1	fox			30/04/2019	Female		General Health Panel
2	Mouse			30/04/2019	Female		General Health Panel
3	Mouse			30/04/2019	Female		General Health Panel
4	Mouse	aa	e	30/04/2019	Male	123456	General Health Panel
5	猪	emmy	emma	30/04/2019	Neutered	1	General Health Panel
6	Dog	ceshi		23/04/2019	Neutered		General Health Panel
7	Dog	as	dy	23/04/2019	Female	258	General Health Panel
8	Sheep	1	2	23/04/2019	Male	9	General Health Panel
9	Cat	lay	17	23/04/2019	Male	5	General Health Panel
10	Cat	11	17	23/04/2019	Male	4	General Health Panel

Date and Time setting

The system date and time will usually be set before installation and the system remembers the date and time between uses.

To change the date and time, from the home screen select ‘Settings’ then press ‘Date/Time’.
Use the up and down arrows to change the day, month, year, hour, minute and seconds. Press ‘Save’ once correct date and time has been set.



Troubleshooting

When there is a problem with the analyser, a warning and error message will be shown.

Error Code	Problem Description	Solution
0101	Multi-switch fault	***Please contact Woodley Equipment or your authorised dealer.*** ***Refer to the Maintenance Manual (Authorised dealers only)***
0102	+12V power fault	
0103	-12V power fault	
0105	AD（AD fault）	
0107	Optical module fault	
0108	LED fault	
0109	Optical output is unstable	
0202	Drawer open fault	
0203	Drawer close fault	
0206	Motor speed fault	
0213	Temperature fault	
0214	Insufficient lamp exposure	
0215	Dark current	
0216	Light intensity saturation	
0220	Temperature data transmission fault	
0221	PT100 fault	
0222	Upper NTC fault	
0223	Lower NTC fault	
0224	Upper heating film fault	
0225	Lower heating film fault	
0301	FPGA fault	
0302	Scan module fault	
0303	606 board fault	

Error Codes for Reagent Disc and Troubleshooting

Error Code	Problem Description	Solution
0208	Insufficient sample	According to **Section 3.3**, repeat the analysis with a new reagent disc
0209	Insufficient diluent	
0210	Sample and diluent not mixed correctly	
0211	Sample interference, severe haemolysis, severe lipaemia or severe jaundice	Confirm sample quality and repeat the analysis with a new reagent disc. If symptom persists, use an alternative testing method or send the sample to a reference laboratory.
0212	Disc expired	Please use the reagent disc within the validity period.

InSight V-CHEM Rotors

Analytes Profile	Items	ALP	ALT	AST	BUN	CREA	GLU	ALB	TP	TBIL	AMY	Ca	PHOS	Na^+	K^+	Cl^-	BA	GGT	CK	CHOL	tCO_2	Others
General Health Panel	13	ALP	ALT		BUN	CREA	GLU	ALB	TP	TBIL	AMY	Ca	PHOS						CK	CHOL		
Preanaesthetic Panel	6	ALP	ALT		BUN	CREA	GLU		TP													
Preanaesthetic Plus Panel	9	ALP	ALT	AST	BUN	CREA	GLU		TP										CK			LDH
Liver & Renal Panel	9		ALT	AST	BUN	CREA	GLU	ALB	TP	TBIL								GGT				
Liver Function Panel	8	ALP	ALT	AST				ALB	TP	TBIL								GGT				DBIL
Renal Function Panel	7				BUN	CREA		ALB				Ca	PHOS		K^+						tCO_2	
Electrolytes Panel	7											Ca	PHOS	Na^+	K^+	Cl^-					tCO_2	Mg
Critical Care Panel	8		ALT		BUN	CREA	GLU							Na^+	K^+	Cl^-					tCO_2	
Ammonia Test	1																					NH_3
Avian & Reptile Panel	13		ALT	AST			GLU	ALB	TP			Ca	PHOS	Na^+	K^+	Cl^-	BA		CK			UA
Large Animal Panel	10	ALP		AST	BUN			ALB	TP			Ca	PHOS					GGT	CK			Mg
GLU & Lipid Panel	5						GLU													CHOL		TG, HDL-C, HCY
Triple Tests Panel	12	ALP	ALT		BUN	CREA		ALB	TP	TBIL	AMY	Ca	PHOS						CK	CHOL		