

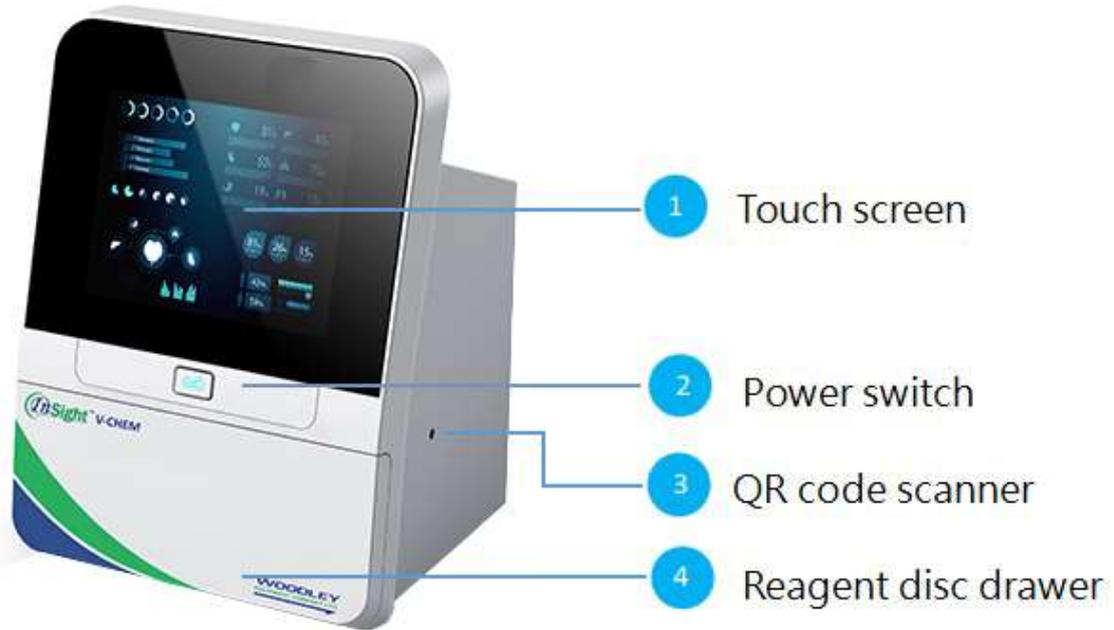


InSight V-CHEM Quick Reference Guide

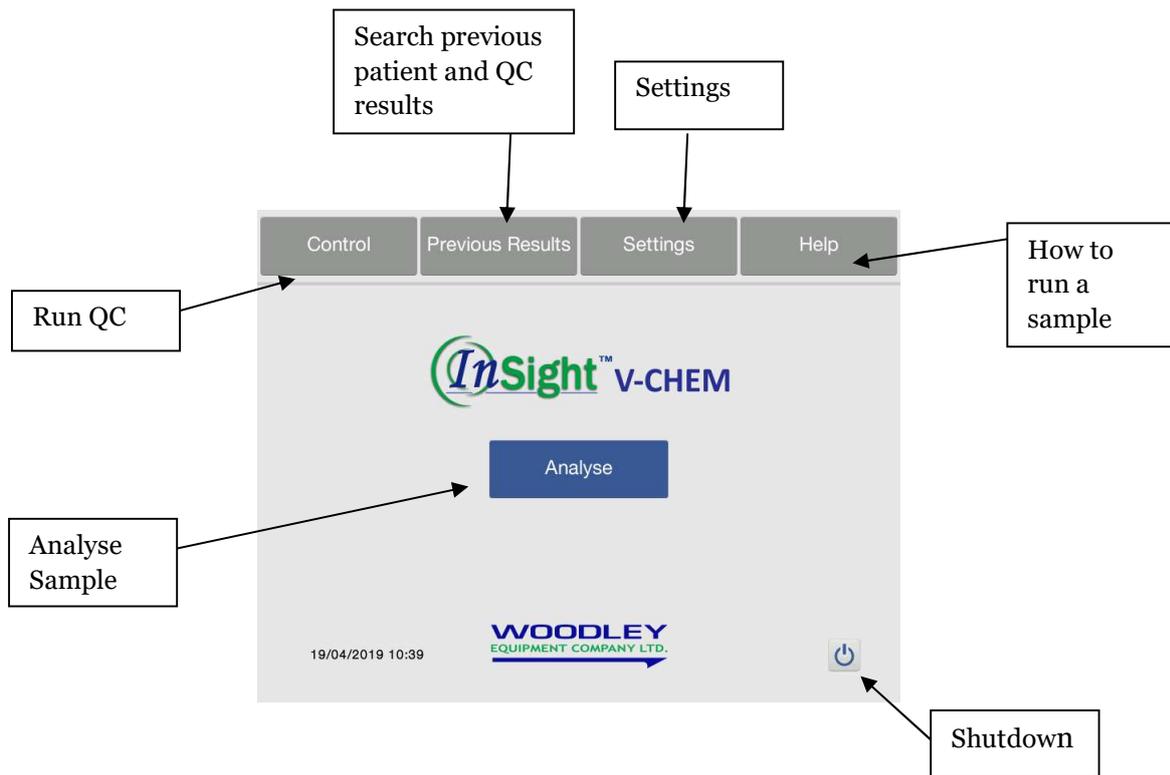
Quick Reference Guide Contents

External features of the analyser	3
InSight V-CHEM Function Buttons	4
Testing a Sample	5
Interpreting the results	6
Accessing previous results	7
Date and Time setting	8
How to perform Software Update	9
Troubleshooting	10
InSight V-CHEM Rotors	12

External features of the analyser



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. If using a QUAD rotor, the analyser will ask you to select the 4 parameters to be tested
13. 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, press **Close** to close the disc drawer.
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: Z
 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

Lipenia
 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.

A screenshot of a search filter form. At the top left is a grey button labeled 'Back' and at the top right is a grey button labeled 'Search'. Below these are several input fields: 'Species:' with a dropdown menu showing 'All'; 'Patient name:' with a text input field; 'Owner:' with a text input field; 'Gender:' with a dropdown menu showing 'All'; 'ID:' with a text input field; 'From Date:' with a date input field showing '19/04/2019'; and 'To Date:' with a date input field showing '19/04/2019'.

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.

Back	Down	Up	Save
Automatically <input checked="" type="checkbox"/>			
day	month	year	
19	04	2019	
hour	minute	second	
12	45	04	

How to perform Software update on InSight V-CHEM

By USB

1. On a blank USB, create folder called 'updatesoft'
2. Copy latest software update to this folder
3. Insert USB into the USB port on the back of the analyser
4. On analyser screen, select Settings- Analyser- SW- update
5. Analyser will update, then will prompt to restart analyser.

By WIFI

1. On analyser screen select Settings- network- scan
2. Select local WIFI and input WIFI password
3. Once analyser is connected to WIFI, go back to previous screen
4. Select Analyser-SW- update
5. Analyser will automatically download software upgrade
6. Once upgrade completed, analyser will prompt to restart.

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	<p><i>Please contact Woodley Equipment or your authorised dealer.</i></p> <p><i>Refer to the Maintenance Manual (Authorised dealers only)</i></p>
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.
02081	Insufficient sample	Repeat test with a new rotor ensuring correct sample volume used and sample checked for clots.
02082	Insufficient sample and diluent mix	Repeat test with a new rotor ensuring correct sample volume and the foil tab has been removed from the rotor.
0232	Lipaemia interference	Take a fresh sample and repeat the test.
0233	Insufficient diluent	Ensure the foil tab has been removed
0235/0238	Sample not reaching reaction cuvettes	Check sample for clots and repeat test
0237	Sample interference	Repeat test with a fresh sample

InSight V-CHEM Rotors

Analyser Profile	Items	ALP	MT	AST	SUN	CSEA	GU	ALB	TP	TBL	AMY	G	PHOS	Fe	Cl	BA	GAT	Cl	CHOL	KO ₂	Others	
General Health Panel	13	ALP	MT		HUN	CSEA	GU	ALB	TP	BAL	AMY	G	PHOS					Cl	C-OA			
Pre-surgical Panel	5	ALP	MT		HUN	CSEA	GU		TP													
Pre-anesthetic Plus Panel	3	ALP	MT	AST	HUN	CSEA	GU		TP												LDH	
Liver & Renal Panel	3		MT	AST	HUN	CSEA	GU	ALB	TP	BAL							GAT					
Liver Function Panel	3	ALP	MT	AST				ALB	TP	BAL							GAT				BIL	
Panel Function Panel	7				HUN	CSEA		ALB					G	PHOS	Fe					KO ₂		
Electrolyte Panel	7												G	PHOS	Fe	Cl				KO ₂	Mg	
Critical Care Panel	3		MT		HUN	CSEA	GU							Fe	Cl					KO ₂		
Arterial Test	1																					NH ₄
Arterial Blood Gas Panel	13		MT	AST			GU	ALB	TP				G	PHOS	Fe	BA		Cl			LA	
Large Animal Panel	10	ALP		AST	HUN			ALB	TP				G	PHOS			GAT	Cl			Mg	
GU & Jeld Panel	5						GU												C-OA		SGRVC-CP	
Triple Test Panel	12	ALP	MT		HUN	CSEA		ALB	TP	BAL	AMY	G	PHOS					Cl	C-OA			