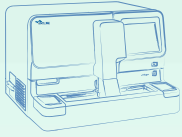


Fully Automated Coagulation Analyser
CS-1600

Novel technologies.
Assuring results.

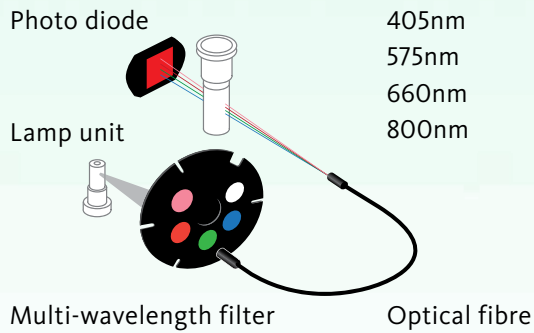




Novel technologies

Assuring consistently accurate and reliable results on every test run

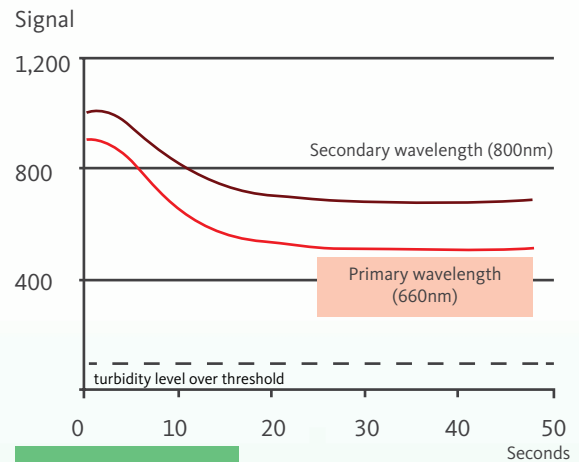
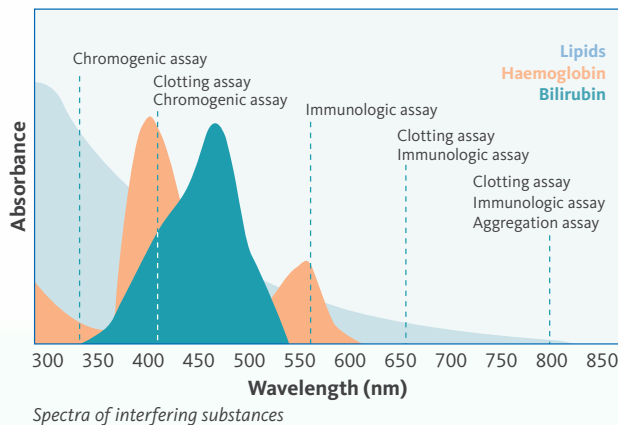
Sysmex aims to bring cutting edge technology to every laboratory. The CS-1600 system is a further evolution of the CS-series; utilising the proprietary multi-wavelength detection system to deliver consistently accurate and reliable results to laboratories.



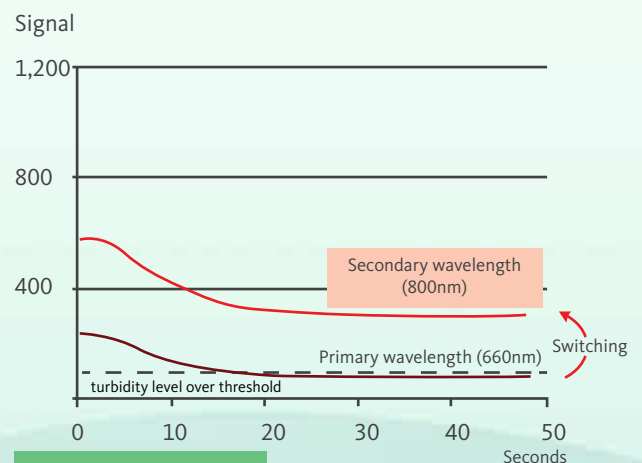
The CS-1600 is equipped with an optical fibre that supplies light at 4 different wavelengths, and a detector capable of receiving light in multiple wavelengths.

This is the Sysmex proprietary multi-wavelength detection system. It allows measurement of multiple parameters with varying methodologies simultaneously. Throughput is improved as the time to measure a single sample is reduced.

The power of multi-wavelength technology



- Reduces the effect of interfering substances on the absorbance spectra by utilising optimal wavelengths.
- Optimal wavelength is automatically selected based on the sample characteristics (wavelength switching) for more accurate results.
- Switches automatically to the secondary wavelength when the coagulation reaction shows only a small change at the primary wavelength. Such as in the case of a severely lipemic or low fibrinogen sample.



Wavelength switching during PT measurement



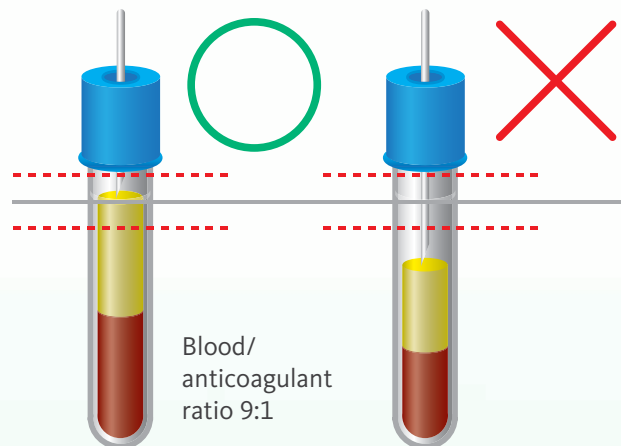
Reliable cap-piercing system

- Sysmex has accumulated more than 20 years of experience in developing cap-piercing systems that are safe and highly reliable.
- This prevents sample contamination and deliver accurate results.

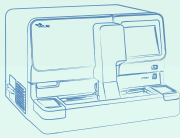


Primary sample volume check

- When aspirating a sample for the first time, the system detects the level of liquid in the sample tube. It then determines whether or not it contains an appropriate volume of blood according to the CLSI guideline of 9:1 ratio.
- Sample tubes with volumes outside the acceptable range are flagged to avoid reporting of erroneous results.



Status	V	S	Mode	Sample No.	React. No.	Start Time	End Time	Sample Info	CP	Output
Complete	V		A	0000000000000001	000001-01	13:46	13:54	Va.1		GH
Complete	V		A	0000000000000002	000002-02	13:48	13:55	Va.1		GH
Complete	V		A	0000000000000003	000003-03	13:50	13:56	Va.1		GH
Complete	V		A	0000000000000004	000004-04	13:58	14:01	Va.1		GH
Complete	V		A	0000000000000005	000005-05	13:53	13:58	Va.1		GH
Processing			A	0000000000000006	000006-06	13:52	14:00			GH
Processing			A	0000000000000007	000007-07	13:53	14:04			GH
Processing			A	0000000000000008	000008-08	13:58	14:04			GH
Processing			A	0000000000000009	000009-09	13:58	14:00			GH
Processing			A	0000000000000010	000010-10					GH



User-friendly functions

Improving operational efficiency for you

The CS-1600 system aims to help laboratories manage their workflow easily and efficiently.

Safe & flexible sample aspiration

- The system can handle various types of blood collection tubes. It automatically detects the presence of a cap, enabling measurement, even when capped and uncapped collection tubes are placed on the same rack.
- This reduces your sample processing time.

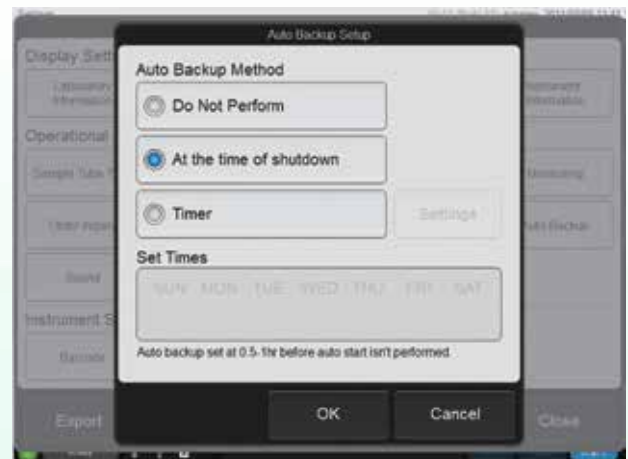
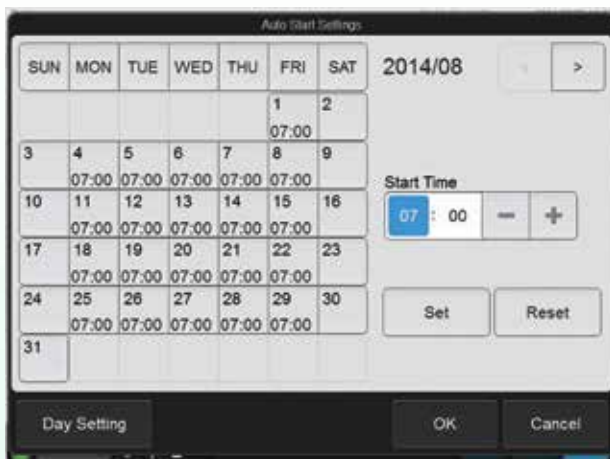


Flexible STAT analysis

- STAT samples are given priority by enabling flexible and easy interruption through “sample” or “rack” interruption method.
- On-screen animation is available to guide you through the process.



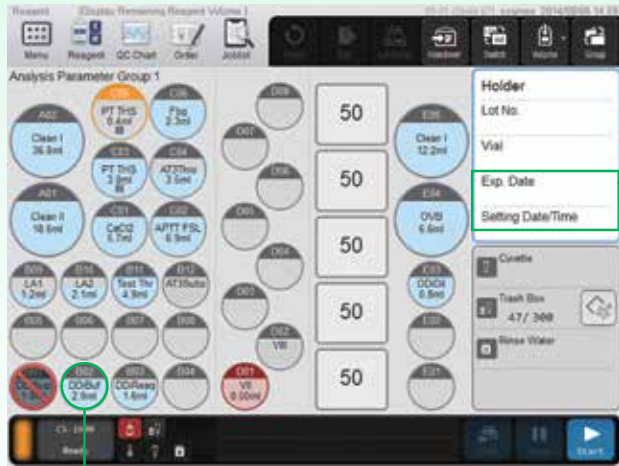
Auto starts and backup



- Allows you to prepare the analyser for standby mode at the designated dates and times.

- Automatically take cares of your data preservation for you by performing auto backup function at the scheduled time or at the time of shutdown.

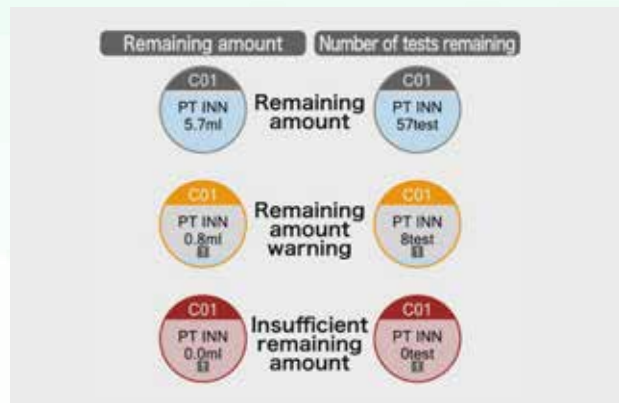
Easy-to-read reagent display screen



Remaining volume/number of tests

- Complete on-board reagent status information with supporting graphics and data to help you manage your daily reagent use.

On-board stability time

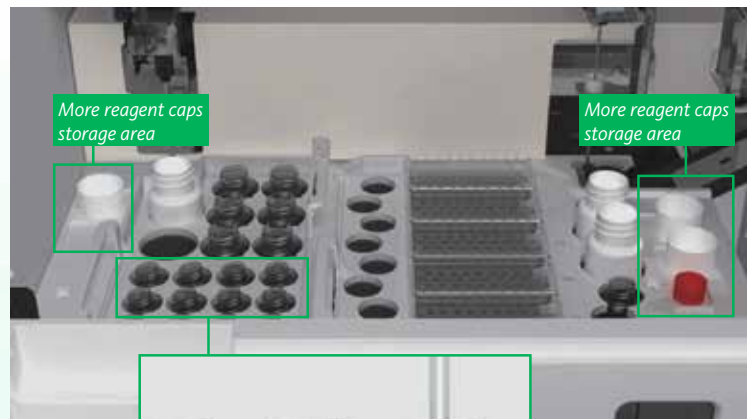


3 status indicators to let you know when it is time to change the reagent

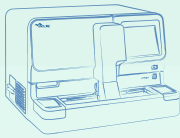
A thoughtful design



Reagent caps storage area



Tilted reagent vial positions to reduce reagent wastage



Sophisticated software

Supporting your laboratory accreditation requirements and operations

Thanks to the sophisticated software used, the CS-1600 system offers extra support to laboratories in meeting their accreditation requirements and daily operation needs.

Traceability of results/operation log

- This dedicated accreditation feature allows you to trace the measurement results, reagent lot number, calibration curve used in testing, and the date/time of the recent QC measurement as well as the operation easily.

Analysis information

Dil. Ratio	1/1	
Surface of Sample [mm]	51.2	
Detector Temp. [°C]	37.1	
Detector Channel	1	
Reagent Table Temp. [°C]	14.8	
Calibration Curve ID	0000001	
QC	2014/08/04 15:10:14	
Reagent Name	Lot No.	Elapsed Time
PT THS	505401	0
OVB	-	-

Handover

With just one screen, you can check the remaining reagents and consumables level, maintenance status and error information easily and quickly, and prepare the analyser accordingly before handing over to the next shift.

Handover

Check the No. of tests for assays and remaining vol. of detergent before handover. Check the remaining vol. of detergent in the tanks

Assay	Tests	Buffer Detergent	Consumables Maintenance	Error
THS	13			
FSL	174			
Pbg-DT	65			
BC AT3	-			
BN-D04	36			

Item	Status
Discard Cuvettes	43 / 300
Usage Counts of Sample Plate	16 / 100
Lamp Lighting Time	7 / 1,000 hour
Precing	0 / 40,000
Rinse Line Pinch Valve	22 / 300,000
Waste Line Pinch Valve	172 / 2,250,000
Sample Syringe	233 / 1,013,000
Reagent Syringe	242 / 1,013,000
Catcher Mixing Motor	48 / 7,100,000

Operation Log

Date/Time	User	Action	Comment
2014/08/11 15:48	admin	Change/Add	
2014/08/11 15:46	admin	Add Reagent Lot Master	
2014/08/11 15:42	admin	Change/Add	
2014/08/11 15:40	admin	Change/Add	
2014/08/11 15:38	admin	Edit Reagent Master	
2014/08/11 15:35	admin	Change/Add	
2014/08/11 15:32	admin	Add Reagent Lot Master	
2014/08/11 15:26	admin	Change System Settings	
2014/08/11 15:25	admin	Login	
2014/08/11 15:21	admin	Shutdown	

Handover

Check the No. of tests for assays and remaining vol. of detergent before handover. Check the remaining vol. of detergent in the tanks

Assay	Tests	Buffer Detergent	Consumables Maintenance	Error
THS	13			
FSL	174			
Pbg-DT	65			
BC AT3	-			
BN-D04	36			

Pos.	Reagent Name	Warning Volume[mL]	Remaining volume[mL]
001	Clean I	1.3	18.6
002	Clean I	1.3	7
003	DDI04	0.1	2.5
004	OVB	0.6	14.2
005	Clean I	1.3	7

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