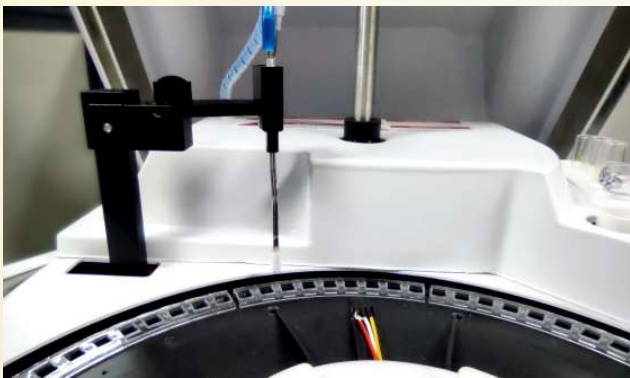


## CS 120

### Fully-Auto Chemistry Analyzer



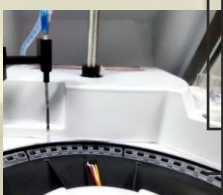
- Mini Fully Auto Chemistry Analyzer. All-in-one machine
- Discrete/random access
- Start sample priority
- User friendly interface
- Internal thermal printer. Direct print report
- 81 cuvettes
- 24+5 (Tube @12\*100) sample positions
- 1 calibration position / 1 QC position / 1 ST position
- 54 positions for reagent
- 27 bottles with volume of 8 ml
- 27 bottles with volume of 24ml
- LED light source with 8 channel transmissometry and 1 Channel scattering, Rear Spectrophotometry
- Liquid level detection / Collision protection
- High pressure water flush for probe washing.



### Advance washing Feation :

- Using unique high efficiency water cleaning system with less mechanism ensure low carryover and low water consumption

### Sample, Reagent Trays and Probs



- Reagent and Sample Probe
- 81 Reaction Cuvetes
- 32 Sample Positions
- 54 Reagent Positions
- 27 Bottles with Volume of 8 ml
- 27 Bottles with Volume of 24 ml



#### Real Time Monitoring

- Reaction curve, calibration test and QC test curve.
- Sample, Reagent and Reaction cuvette status.
- Lamp intensity, water tank and waste tank status.
- Reaction disk and reagent disk temperature.

#### Calibration & Q.C.

- Multiple calibration mode.
- Advance algorithm to obtain best calibration curve
- Multi QC rules: Westgard, Comulative sum check, Twin Plot

#### User Friendly Software

- Easy operation with iconic interface.
- Multi-language available.
- Easy reagent parameters setting.
- Support bath request, panel/calculation test.
- Auto troubleshoot failure and recovery.
- Powerful statistic system.
- Manual dilution, auto dilution and post dilution.
- Easy rerun and restore test.

## CS-120 Technical Specifications

CS-120 Technical Specifications		
Feature	Description	
<b>System Function</b>	1. Category	Random access fully automatic chemistry analyser
	2. Speed	120 tests/hour
	3. Methodology	End point, Fixed point, Kinetic
	4. Reagent	Open system/Closes system
	5. Reagent Position	54
	6. Sample Position	32
	7. Minimum reaction volume	150
	8. Carry over	≤0.005%
	9. Maximum reaction Volume	500ul
	10. Principle	Colorimetric, Turbidimetric
	11. Testing mode	Regular mode(single&dual reagents), fast mode(single reagent)
	12. Sample mode	Random access, STAT sample priority
<b>Sample System</b>	1. Sample Volume	2-30 µL, step by 0.1µL
	2. Sample Tray	32 positions
<b>Probe</b>	1. Sample/Reagent mixing probe	One probe for sample and reagent with liquid level detection, vertical and horizontal collision protection and reagent volume real time time monitoring function. Automatic inner and outer probe washing after every cycle
<b>Reagent</b>	1. Reagent volume	20-300 µl, step by 1 µl
	2. Reagent disc	54 reagent position
	3. Reagent bottles	8ml, 24 ml
<b>Reaction Tray</b>	1. Reaction cuvettes	81 cuvettes Semi-permanent rigid UV special plastic cuvettes
	2. Reaction temperature	37±0.1°C
	3. Reaction volume	150-500µL
	4. Maximum reaction time	12 minutes
	5. Heating	Metal thermalstat for reaction disc
<b>Measuring &amp; Optic system</b>	1. Lamp	LED Xenon lamp, 20000 Hours
	2. Filter	FMSS(full sealed matrix spectrometric system)
	3. Wavelength	340-670nm, 8 wavelength, 800nm optional
	4. Resolution	0.0001Abs
	5. Linear range	0-3.8Abs
	6. Accurate	0.5A: <±0.02Abs, 1.0A: <±0.04Abs
	7. Stray light	≥4.5
	8. Stability	<0.01Abs/hour
	9. CV%	<1.5%
	10. Half band accurate	<±2nm
	11. Detector	Photodiode detector array
	12. Cooling way	Constant water cooling
<b>Cal&amp;QC</b>	1. Calibration mode	One point linear, two point linear, multi point linear, Logit-4P, Logit-5P, spline, exponential, polynomial
	2. Calibration curve	Calibration curve auto check,
	3. QC rule	Westgard multi-rule, Cumulative sum check, Twin Plot
	4. QC curve	Westgard multi-rule, Cumulative sum check, Twin Plot
	5. Out of control	Automatic warning for items out of control, data automatic record, automatic analysis.
<b>Software</b>	1. Operating system	Win XP, Win7/Win10
	2. Data storage	Decided by computer hard disc memory
	3. LIS interface	Bi-LIS interface
	4. System monitor	Real time monitoring for sample disc, reagent disc, reaction disc. Real time monitoring for QC status. Real time monitoring for reaction cuvettes status, lamp status and temperature. Real time monitoring for reagent volume, reaction curve, Calibration curve and QC curve. Linear range limitation, Substrate exhaustion judgement and prozone detecting. Abnormal status warning.
	5. Other function	User permission administration, test panel function, calculated/manual parameter programming, avoid cross contamination function, sample and reagent blank auto calculation, automatic fault recover, automatic print, data statistic.
	6. Computer hardware requirement	CPU 2.5GHz, memory 4GB, hard disc 500G, monitor wide screen, 19 inch
	7. PC interface	RS-232C USB interface
<b>Printout</b>	1. Print mode	Built in thermal printer external printer printer option Multi default formats,self - defined formats
	2. Power supply	AC 100-240V, 50/60Hz±1Hz, ≤350VA
<b>Working condition</b>	3. Net weight	22 Kg
	4. Optional parts	Reagent/sample barcode reader, Water purification modular, PC, HP laser printer
	5. Water consumption	3-3.5 L/hour
	6. Temperature	10-35°C



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**ISO 13485:2016 Certified Company**

