

# High Quality & Innovation

## LCA- 160 | Fully Automated Random Access Biochemistry Analyzer



### FEATURES AND ADVANTAGES:

- Intelligent automatic error correction function, automatically correcting test errors;
- Intelligent quality control and correction functions significantly enhance the quality control level and efficiency;
- Innovative degassing device effectively eliminates air bubbles in the liquid path, ensuring more accurate results;
- Automatic maintenance function and multiple advanced designs greatly reduce the failures and maintenance work;
- Multiple innovative design technologies have significantly reduced carry-over;
- Easier and more convenient to use;
- Suitable for small and medium-sized medical clinical lab and hospitals, and can be optionally equipped with pet diagnostic software for pet clinics and related research institutes;
- Compact size and lower performance cost.

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## TECHNICAL SPECIFICATIONS

Model	DS-161
Assay Type	Random access with direct reading system
Methodology	End-point, kinetic, fixed time, single- wavelength, Bichromatic, immunoturbidimetry, serum blank, single-standard, multi - standard method, etc.
Throughput	> 160 test/hour
Sample volume	2-100uL, step size 0.1uL
Reagent positions	42 in total. Standard configuration: 24 for R1 and 18 for R2
Reagent volume	2-500uL, step size 0.1pL
Sample positions	40, including standard, quality control and emergency positions; compatible with original test tubes and serum cups
Refrigeration system	2-8°C
Mixing system	One independent stirrer
Reagent/sample probe	With sensitive liquid surface detect function, anti-collision, with volume-tracking function, automatically detects remaining reagent volume down to <1ml in each reagent bottle
Reaction time	10 min
cuvettes	Standard configuration of 60 high quality micro plastic reaction cuvettes, transparent to ultraviolet and visible light
Washing	5 channels automatic washing cuvette system; waste liquid collected by high concentration and low concentration respectively; automatically dry cuvette
Alarm	Automatic alarm for malfunctional (collision, reagent/sample insufficiency, full waste container etc.)
Standard	Linear and non - linear, multi - point calibration
Sample dilution/retest	When sample results are out of range, the analyzer automatically dilute and re-test the sample
Optical system	Advanced post - spectroscopy design
Wavelength	330nm-850nm; 8 wavelengths as standard, 2 additional wavelengths optional
Absorbance range	0-3.5A
Resolution	0.0001 A
CV	<1.0%
Absorbance drift	<0.002
Temperature drift	No more than +0.1°C
Carry - over	<0.01%
System calibration	Blank background value subtraction, automatic zero-adjustment. The instrument can automatically record and subtract the blank value of each cuvette to ensure reliable and accurate results. It also has an automatic light source drift elimination function to ensure long - term stable operation
Emergency test	Emergency samples can be inserted at any time for automatic priority test
Safety assurance	This product is carefully designed and manufactured according to international standards, using multiple patented technologies with high detection accuracy. The instrument is equipped with fault alarm, automatic diagnosis and auto control functions
Quality control	Multiple types of controls can be performed with various control rules. Automatically check and correct when any control test results out of control range
Software	The software has multiple AI - enabled functions to ensure more reliable and efficient instrument operation, reduce operation difficulty and maintenance workload, and is more user - friendly. Multiple language versions are available
Data storage	Can edit over 5000 test items and store them long - term; can store over 2 million patient records long - term
Printing	Multiple printing formats available for selection
Power supply	220V, 50Hz or 110v 60Hz

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