

Alpha Chem *touch* - Technical Specifications

OPTICAL SYSTEM

Flow Cell	33 µl quartz
Light Source	Quartz Halogen lamp 6V/10W
Temperature	25°C, 30°C, 37°C, Ambient
Temperature Control	By peltier element
Photodetector	UV Enhanced Silicon photodiode
Cuvette option	10mm square cuvette/ Round cuvette (optional)
Filter	6 interference filters (340, 405, 505, 546, 578, 630nm) with 2 optional positions
Filter Selection	Stepper motor based filter wheel

MEASURING SYSTEM

Reaction Volume	300-600µl
Aspiration	Peristaltic pump with stepper motor
Photometric Range	- 0.1 to 3.0 Absorbance
Resolution	0.001 Absorbance
Linearity	≤ 1%
Blanking	Automatic zero setting
Calibration	Automatic against standard with auto storage of graph for all tests

MEASUREMENT METHODS

- Absorbance
- Endpoint with standard / factor / sample blank and differential
- Two-point (fixed time) and multi point kinetics
- Multi standard calibration
- Mono or bi-chromatic reading
- Turbidimetry

OPERATOR INTERFACE

Total Programmable Tests	150 User defined test programs
Quality Control	Levey-Jennings chart using westgard's rules
	30 Normal and abnormal QC values for selected test
Display	Graphic LCD back Lit. 240x64 pixels
	Touch Screen Input
Incubator	External 12 positions
Printer	Graphical inbuilt thermal printer
Air Purge	After each sample
Communication interface	RS 232
Memory	- 1000 test results - Reagent blank for all tests

PHYSICAL

Dimension	360 x 310 x 145 mm
Power Supply	AC 110-250V, 50Hz
Weight	6 Kgs approx.

ENVIRONMENTAL CONDITIONS

Storage Condition	
Temperature	0 - 40°C
Non-condensing humidity	0 - 75%
Operating Condition	
Temperature	10° - 40°C

*Technical Specifications are subject to change without prior notice.

ABOUT ALPHA TECHNOLOGIES

We offers a broad portfolio of performance driven In Vitro Diagnostics products and instrumentation for use in hospitals, diagnostic laboratories and research centers worldwide.

Our brand, along with our domestic and international manufacturing partners, provides a high quality, cost-effective alternative for diagnostics instrumentation, assays and reagents for better delivery, more personalized care to patients around the globe.



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Alpha Technologies

Alpha Chem *touch*

Clinical Chemistry Analyzer

NEW GENERATION ANALYZER FOR CLINICAL INVESTIGATIONS



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Clinical Chemistry Analyzer

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CLINICAL

Autoimmune (Turbidometric method) – CRP, IgA, IgG

Anaemia – Hemoglobin, Fe, TIBC, Transferrin, GDH

Basic Metabolic profile – Amylase, Albumin, Glucose, Globulin, HBA1c, HBD, Lipase, LDH

Cardiac – CK-MB, CK-NAC, CRP, Cholesterol, LDH, Lipoprotein-α, Triglyceride

Diabetes – Glucose, Glucose Hexokinase, HBA1c, Microalbumin, Cholesterol, Total protein

Electrolytes – Ammonia, Bicarbonate, Calcium, Chloride, Iron, Magnesium, Phosphorous, Potassium, Sodium, Zinc

Inflammation (Turbidometric method) – ASO, CRP

Lipid Profile – Apolipoprotein A, Apolipoprotein B, Cholesterol, HDL-Cholesterol, Lipoprotein-α, LDL-Cholesterol, Lipase, Triglyceride, VLDL

Liver profile – Aldolase, Albumin, Alkaline Phosphatase, Acid Phosphatase, Bilirubin, Cholinesterase, GGT, Micro albumin, SGOT, SGPT

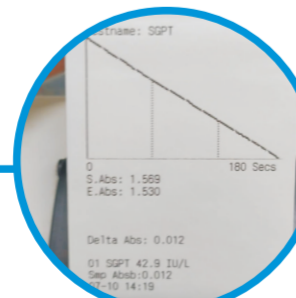
Kidney profile – Blood Urea Nitrogen, Creatinine, Globulin, Micro protein, Total Protein, Urea, Uric acid, Phosphorous, Potassium, Sodium, Urinary protein

Alpha Chem *touch* powered by high performance state-of-Art sophisticated electronics and sub system. Thoughtfully designed features makes Alpha Chem *touch* a simple and easy-to-use equipment.

- Remote access & monitoring via Internet (Optional)
- Touch screen interface with dynamic test access key
- Large Graphic Touch Screen display with real time graph display for enzymatic reaction
- Built-in thermal printer to print results, enzymatic curves and standard calibration curves



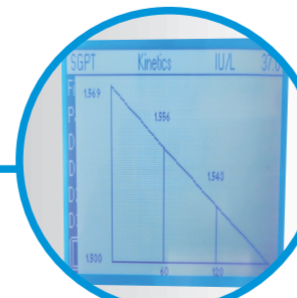
- Software calibrated peristaltic pump for less reagent consumption
- Maintenance free, Long life



- High resolution graphic thermal printer for multiform reports
- Paper : Thermal - 57mm wide



- External 12 Position dry bath incubator
- Independent Operation



- Realtime absorbance curve, Realtime clock, Realtime temperature display on screen
- QC program for 2 controls per tests with westgard rules, Levey-Jennings chart
- Graphic LCD back Lit. 240x64 pixels
- Touch Screen Input



- User replaceable Lamp
- Reduces down time
- Cost Effective
- No alignment needed

Peace of mind guaranteed

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Clinical Chemistry Analyzer