Analytica 705i



Semi-Auto Biochemistry Analyzer

with color graphical display and dry bath incubator

- Ideal companion of clinical laboratories and hospitals
- High accuracy and reliability of test results
- User-friendly interface

CE

Analytica 705i is a compact, reliable, high performance semi-automated biochemistry analyzer a symbol of superior technology capable to perform tests on whole blood, serum, plasma, CSF or urine samples to determine routine clinical chemistry, electrolyte, immuno turbidimetric assay to deliver accurate and quality results with low maintenance.

• Clinical Chemistry

Autoimmune (Turbidimetric) – 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-a, Triglyceride

Diabetes – Glucose, Glucose Hexokinase, HbA1c, Microalbumin, Cholesterol, Total protein

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

Inflammation (Turbidimetric) – ASO, CRP

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

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

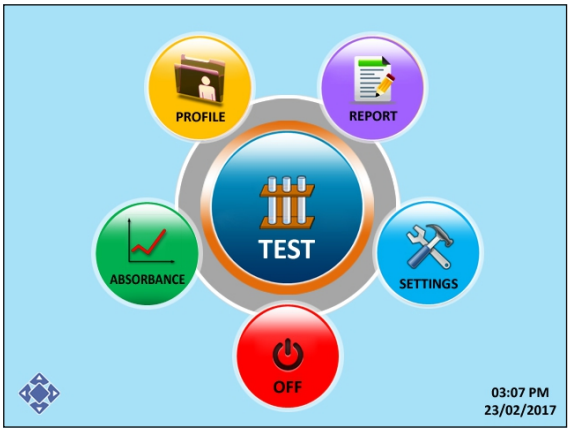
Kidney profile – Blood Urea Nitrogen, Creatinine, Globulin, Micro protein, Total Protein, Urea, Uric acid, Phosphorous, Potassium, Sodium, Urinary protein

• Veterinary

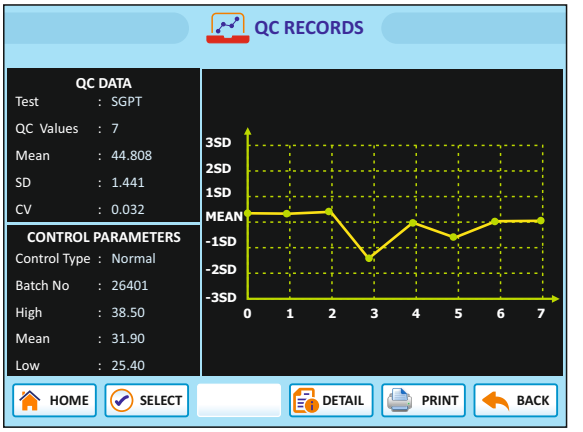
Albumin, Alkaline Phosphatase, Amylase, Ammonia, Bilirubin, Calcium, Chloride, Cholesterol, Cretinine, Cholinesterase, CKNAC, Glucose, GGT, Glutamate dehydrogenase (GDH), HDL-Cholesterol, Hemoglobin, Iron, Lipase, Lactate, Magnesium, Micro albumin, Micro protein, Phosphorous, Potassium, Sodium, SGOT, SGPT, Total Protein, Triglyceride, Urea, Uric acid

• Food, Water and Wine Industry

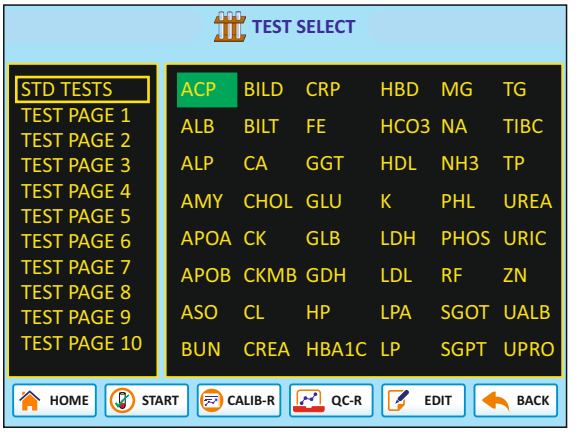
Acetic acid, Calcium, Copper, Chloride, Ethanol, Glucose, Glycerol, Iron, Lactic acid, Sodium, Potassium, Zinc



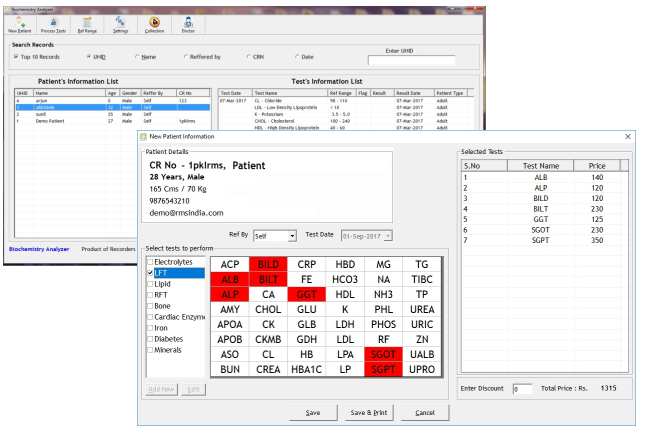
Main Screen



Quality Control Record



Test Selection



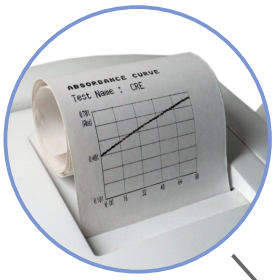
LIS Software (Telemedicine Port) optional

Easy and smooth operator-friendly user interface

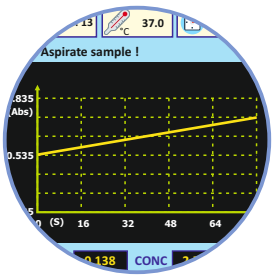
- Realtime reaction curve for every test
- Realtime temperature display on screen with 0.1° step change
- QC program for 3 controls per tests with westguard rules, Levey-Jennigs chart
- Calibration graph storage for all tests
- Facility to create multiple test profiles

- USB Port for direct attachment of external printer (optional)
- RS 232 port (optional)

High resolution graphic thermal printer for multiform reports



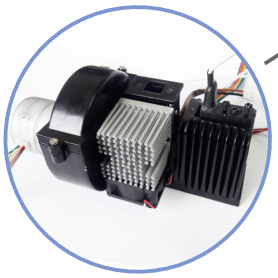




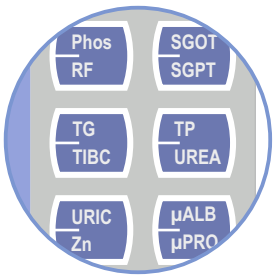
Software calibrated peristaltic pump for less reagent consumption







- High precision mechanical photometric assembly for more accurate results
- Use of Japanese photodiode and European interference filters
- Long life UV halogen lamp



- 48 direct keys to access tests directly from keyboard
- Lamp saving sleep mode indicator on keyboard
- Direct key to Rinse flowcell at any stage of test

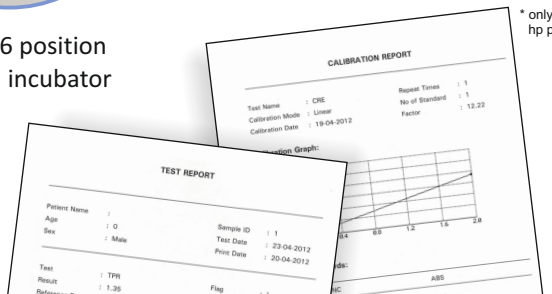


Built-in 6 position dry bath incubator



- USB based PCL compatible DeskJet printers (optional)

* only for selected hp printers



Analytica 705i - Technical Specifications

OPTICAL SYSTEM

Flow Cell	30 µl quartz
Light Source	UV Quartz halogen lamp 6V/10W
Temperature	25°C, 30°C, 37°C and room temperature
Temperature Control	By peltier element
Photodetector	UV enhanced silicon photodiode
Cuvette option	Triple cuvette system, 10mm square/Round cuvette with square adaptor (optional)
Filter	7 interference filters (340, 405, 505, 546, 578, 620 and 670 nm) with 3 optional positions
Filter Selection	Filter wheel, through stepper motor

MEASURING SYSTEM

Reaction Volume	350-5000µl
Aspiration	Peristaltic pump
Photometric Range	- 0.1 to 3.0 Absorbance
Resolution	0.0001 Absorbance
Linearity	≤1%
Blanking	Automatic zero setting
Calibration	Automatic against standard with auto storage of graph for all tests

Measurement Methods

- End point/one point reaction with or without reagent blank and sample blank
- Fixed time/two point kinetics with or without reagent blank and sample blank (with 1 sec change)
- Kinetic test/multi point with or without calibration, factor and sample blank (with 1 sec change)
- Bichromatic with or without reagent blank and sample blank
- Multipoint Calibration of 10 multi-standards with curve fit formula
- Linear, Point-Point, Multi-Point, Logit-Log 4P, Logit-Log 5P, Polynomial, Parabola, Exponential 5P and Spline calibrations with error flags multi-standards
- Absorbance

OPERATOR INTERFACE

Total Programmable Tests	248
Direct Test Keys	48
Quality Control	3 Controls per test with Levey Jenning graph
Display	640 x 480 pixel, Color graphical TFT (5.6")
Touch Screen	Optional
Incubator	Dry bath 6 position (without incubator available)
Printer	Graphical inbuilt thermal printer
Air Purge	After each sample
Keyboard	Qwerty alphanumeric membrane keyboard (80 keys) for direct function entries
Communication Interface	RS 232(optional), USB port (optional)
Memory	- 1,00,000 test results - 22320 QC results and graph - Calibration curve and results for all tests - Reagent blank for all tests
Result Recall	Test name, Patient name, Sample ID, Date
LIS Software	Available (optional)
Telemedicine Port	Through WiFi (optional)

PHYSICAL

Dimension	420(W) x 310(D) x 150 (H) mm
Power Supply	∼ 110-250V, 50 ±10% Hz
Weight	8 Kgs approx.

ENVIRONMENTAL CONDITIONS

Storage condition	
Temperature	0 - 40°C
Non-condensing humidity	0 - 80 %
Operating condition	
Temperature	10° - 40°C

HARDWARE & ACCESSORIES

Component	Quantity
Power cord	01
Fuse	02
Thermal printer roll	02
User manual	01

Since R&D is a continuous process, to make changes in product features, specifications, aesthetics and/or to discontinue the same at any time without notice or obligation

Certified ISO 9001:2015, EN ISO 13485:2016 company CE

Recorders & Medicare Systems (P) Ltd.

Plot No. 11, HSIIDC IT Park, Sector 22, Panchkula - 134114, Haryana, India
Ph.: +91-172-2564196, 2565196, Toll Free: 1800-1200-767,
www.rmsindia.com, sales@rmsindia.com
Unit II: Plot No. 9, Industrial Area, Phase 1, Panchkula - 134113, Haryana, India

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