

Molecular Diagnostics



qPCR
Portable RTPCR



Gene Analysis
Gel Electro



H₂O₃ Peltier Incubator
Pad3 Nano Peltier Incubator



Molecular Diagnostics Lab
Mini MD Lab



Nano PCR Cyclor



Sample Preparation
TG50 Tissue Grinder TG10/20 Tissue Grinder

EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Portable RTPCR

►► **Smarter Tool, Lower Cost, Personalized Care**

Portable RTPCR is a robust, unique and as precise as any large-scale apparatus.
Our system provides you with precise test results quickly and cost-effectively anywhere, anytime.

►► **Features :**

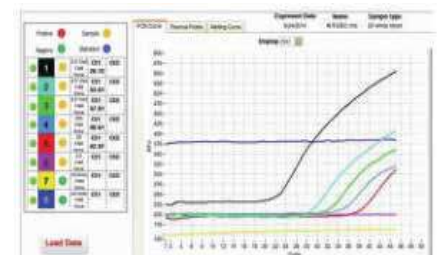
- Portable : 12V DC, energy efficient
- User friendly : Simple interface
- Small footprint : From desktop to laptop, only 2.1 Kg
- High sensitivity : As low as 1 copy
- Sample capacity : 8*0.2m1 PCR tubes
- Two channels : SYBR/FAM, ROX/Texas Red
- Open system : Compatible with most commercial reagents

►► **Operation System :**



Sample Well	1	2	3	4	5	6	7
Sample Name	<None>	<None>	<None>	<None>	<None>	<None>	<None>
Sample Type	Unit	Unit	Unit	Unit	Unit	Unit	Unit
Fluorophore CH1	None	None	None	None	None	None	None
Fluorophore CH2	None	None	None	None	None	None	None

Select Plate



►► RTPCR Operation System

►► **Work Flow :**



►► Specifications :

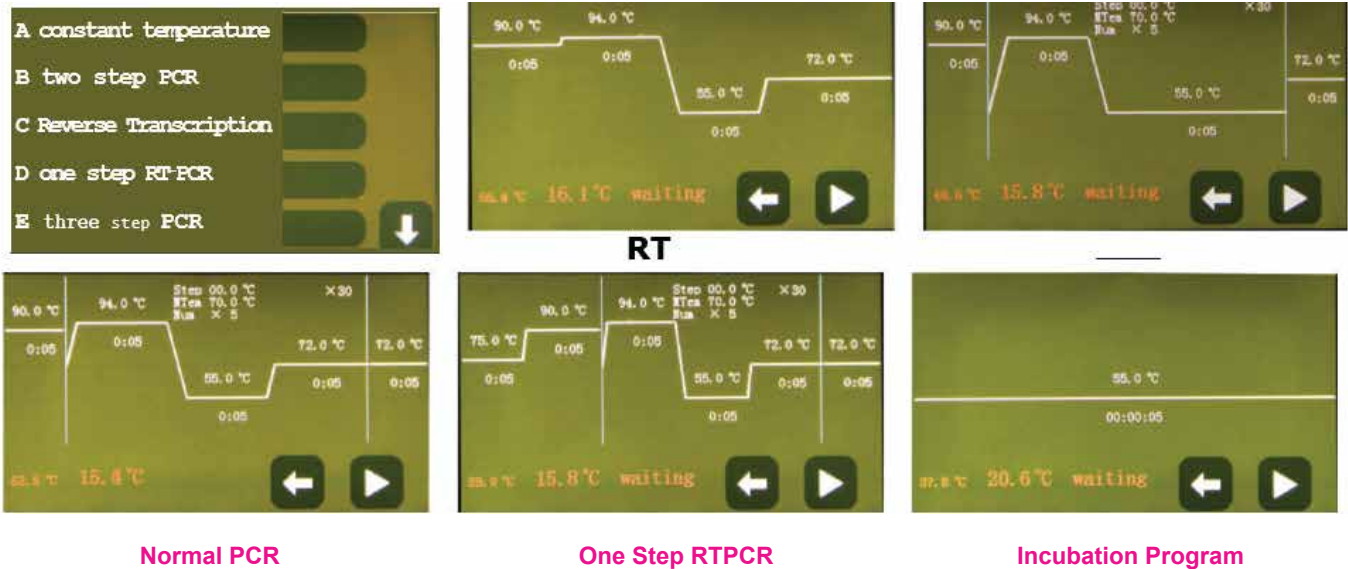
Optical	Light Source Detector	High power LED Photodiode
Thermology Parameters	Heating/Cooling model	Peltier
	Ramping Rate (Max.)	3°C /s
	Thermal Uniformity	±0.2°C
	Thermal Accuracy	±0.2°C
	Temperature Range	4-100°C
	Sample Format	8 Wells
Operational	Reaction Volume	10-150µL
	Warm up time	1 min
	Sensitive of Detection	1 Copy
	High Resolution melt	Supported resolution to 0.5°C
	Multiplexing	Detect upto 2 Dyes Simultaneously, 470/520 nm & 565/625 nm
Physical	Dimensions	205 x 190 x 98 mm (LxWxH)
	Net Weight	2.1kg
Computer Configuration	PC Requirement	WIN2000; XP; WIN7; WIN8
Environmental Requirement	Ambient Temperature	Operation Temp : 15-30°C
		Storage Temp : 10-60°C
	Ambient Humidity	Operation Humidity : 15-90%
		Storage Humidity : 5-95%

►► Nano PCR Cycler

Nano PCR Cycler is a new generation of PCR mini cycler, substantially small and thin. The thickness is merely 4 cm. It has a user friendly interface employing the leading technology touch screen. Without training, any person can play with the slim cycler and finish setting in seconds. It is the only energy efficient PCR cycler with 12V DC power and portable in mobile application.

►► Features

Save Space	Thin, Only 4 cm, From Desktop to Laptop Can Be Used in Clean Bench
Save Time	No Waiting Time, Finish Setting in 30 s
Save Energy	12V DC, Portable & Energy Efficient



Excellent Amplification Performance

Targeted Market

Research institutions
Hospital & School of Medicine Biotechnology company
Test institutions
CDC(Centers for Disease Control and prevention)



- “ATL's Nano PCR Cycler's amplification performance is similar with other brands imported products), in addition, it is so thin and light that saved a lot of space in our laboratory.”
- Simon Scott Clemson University Dept Entomology 'We do the research on cell and we are looking for a PCR cyder which can be placed in the clean bench. Nano PCR Cycler is so convenient and unique”
- Stephen L.New Plant Analysis

►► Specifications :

Module	0.2m1*16	Program	Long-PCR RT-PCR incubation Programs	Max.Ramping Rate	3°C/s
Temperature Range	8-99°C	Number of Stored Program	15	Heated Lid Temperature	105°C
Time Range	1 s-60min	Number of Cyders	1-99	Operation Ambient Temperature	8-30°C
Display Precision	0.1 °C	Control interface	Touch Screen Turning Knob	Power Supply	12V DC
Temperature Precision	+0.2°C	Dimensions	200*200*40mm		
Temperature Evenness (minimize edge effect)	±0.2°C	Net Weight	2.4kg		

►► GelElectro

GelElectro is a breakthrough of high-speed electrophoresis system by integrating molecules separation and electronic imaging system in one device. This device provides customers a completed electrophoresis system to analyze PCR product.

This device generates a new idea with a camera inside which enables you to remote control your experiment and receive images.

►► **Features :**

- All in one function : Self-contained molecular separation system and electronic imaging system
- Wifi Camera and App Control : Control device by your smart phone or your laptop without USB connection
- Portable : Light and 12V DC
- Quick : Get your result in 10 mins



Conventional Work Flow



►► Peltier Incubator

- Peltier Incubator is designed to save customer's time and bring joy to their daily life.
- H₂O³ Peltier Incubator is the only cooling Peltier Incubator that is compatible with 12V DC and batteries. It works like a laptop, and is a perfect device mate for reagents.
- Nano Peltier Incubator provides you an alternative choice when you require lower price but excellent quality.

►► **Features :**

- All-in-one Function with Mix & Match Formats : 1-1 OCQC temperature range with flexible block choice
- Excellent performance : Fast chilling/heating rate, precise temperature control.
- Portable : Compatible with 12V DC & Auto Plug
- Small Footprint : Work in a hood or lab automation systems.





Model	Pad3-100C/Pad3-H	Pad3-3H
Temperature Range	100C: 4 -100°C H: ambient+2-100°C	Pelt3H:ambient +2 -100°C 3 individually controlled heating
Operation Ambient Temperature	8 - 30°C	8 - 30°C
Display Precision	0.1°C	0.1°C
Temperature Precision	±05°C	±05°C
Average Heating Rate	100C: 11°C/min (25 - 95°C)	H/3H: 8t/min(37 - 95°C)
Average Chilling Rate	100C: 4°C/min (25 - 4°C)	NA
Time Range	NA	NA
Power Supply	12V DC, 5A	12V DC, 7A
Dimensions	130x 130 x85mm	130 x 395 X 95mm
Net Weight	0.75kg	2.25 kg

	H ₂ O ³ -96/96B	H ₂ O ³ -96L	H ₂ O ³ -H	H ₂ O ³ -75C H ₂ O ³ -100C	H ₂ O ³ PRO	H ₂ O ³ PROIII	H ₂ O ³ -ISH
Temperature Range	Maintains at 0°C	Maintains at 16°C	Ambient +2-100°C	75C: 0-75°C 100C: 0-100°C	0-100°C	0-100°C programmable 3 segments	0-100°C
Operation Ambient Temp	8 - 30°C						
Display Precision	0.1°C						
Temperature Precision	±0.5°C						
Temperature Evenness	±0.5 °C						
Average Heating Rate	NA	NA	11°C/min (25-60°C)	11°C/min (25 - 75°C)	11°C/min (25 - 75°C)	11°C/min (25 - 75°C)	6°C/min (16 - 60°C)
Average Chilling Rate	2.5 °C/min (25 - 4°C)	3 °C/min (25 -16°C)	NA	2.5°C/min (25 - 4°C)	2.5°C/min (25 - 4°C)	2.5°C/min (25 - 4°C)	2.5°C/min (25 - 4°C)
Time Range	NA	NA	NA	NA	1min - 23hrs59mins	1min-23hrs59mins	
Power Supply	12V DC, 7A	12V DC, 7A	12V DC, 5A	12V DC, 7A	12V DC, 7A	12V DC, 7A	12V DC, 7A
Dimensions	185 x 185 x 90 mm						
Net Weight	1.4kg						

►► TG50 /TG20/TG10 Tissue Grinder

- TG20/TG10 Motor Driven Grinder is the most powerful motor driver grinder on market and can work cordlessly for up to 10hrs, which is a perfect solution for DNA extraction experiments with a DNA extraction & purification Kit.
- TG50 is an upgraded model, which is more powerful and speed adjustable.

►► Features :

- Handheld : Easy operation, Handy
- Avoid Contamination : Save your sample
- Portable : Ideal for field test
- Easy to Clean : Grinding pestle can be autoclaved
- Wide Application : Plant tissue and animal tissue

►► Specifications(TG50) :

- **Motor**
Brushless motor can lengthen the life time of motor significantly
Big torque brushless motor, the power output is 4-5 times larger than similar products
- **Grinding pestle(Stainless/Plastic)**
Plastic grinding pestle, can be autoclaved.
- **Speed**
Adjustable speed ranging from 3000-8000 rpm
- **Power Supply**
12 V DC, energy saving

►► Specifications(TG10/20)

- **Speed**
G10 : 12000rpm
G20 : 1200rpm
- **Grinding Pestle (Stainless/Plastic)**
Plastic grinding pestle, can be autoclaved
- **Power Supply**
G10 : 3.7v Lithium battery, continuously working for 8hrs.

►► Comparison of Solutions

1 Mortar

Problem

- Sample losing
- Difficult to clean

2 TissueLyser

Problem

- Expensive
- Noisy
- Speed adjustable
- Can not work in Liquid Nitrogen

3 Tissue Grinder

Solution

- Economic
- Efficient
- Speed adjustable



Animal Tissue Samples

Plant Tissue Samples

Samples	Recommended Speed(krpm)	Easy/Hard	Samples	Recommended Speed (krpm)	Easy/Har
Heart	10	hard	Soybean leaf	6	easy
liver	5	easy	Wheat leaf	6	easy
Spleen	5	great	Tobacco leaf	6	easy
Lung	8	good	Chinese Wildrye leaf	5	easy
Kidney	8	normal		6	easy
Small intestine	9 -10	hard	Rice leaf	6	easy
Large intestine	5	easy	Rice root	7	normal
Brian	5	easy	Rice stem	10	-
Testis	8	normal	Rice seed	10	-
Ear	10	-	Arabidopsis thaliana seed	7	normal
Skin	10	-			
Marrow	5	easy	Arabidopsis thaliana leaf	6	easy
Tonsil	8	normal			
Thyriod	8	normal	Arabidopsis thaliana root	5	easy
Lymph	10	hard			
Dorsal muscle	10	normal			
Vessel tissue	10	-			

►► **Mini MD LAB**

Mini MD LAB, the only one nucleic acid detection carrying case that can be claimed as a regular bag on the flights. More importantly all the devices inside the box are 1-2 kg and portable, which are compatible with a battery pack or car charger. Mini MD LAB provides full solutions for the molecular diagnostic purpose including devices, consumables and protective suit.

►► **Features :**

Full solution for molecuar diagnostic purpose : Devices, consumables, and protective suit.

Portable : 12V DC, compatible with battary pack and car charger.

User friendly : Easy operation, quick results.

Flexible solution : Fill your different need.

►► **Application fields :**

- Clinical diagnosis : Hepatitis, AIDS, avian influenza etc
- Animal disease detection : Avian influenza and Newcastle disease, foot-and-mouth disease etc
- Food safety : Food-borne microorganisms, food allergens, transgenic etc
- Scientific research : Quantitative study of medicine, agriculture and animal husbandry, biological molecular biology etc.

►► **One-step Gene Test without Nucleic Acids Extraction**

- A breakthrough innovation in molecular diagnosis
- One-step gene test by running all the steps in parallel
- No sample extraction step is required
- Speed up diagnosis to 10 Minutes

►► Servicing, Validation, Trainings and Preventive Maintenance :

- Servicing** : We have team of service engineers who can attend to any make of instrument promptly @the most affordable cost.
- Trainings** :We also take up preventive maintenance to reduce downtime of instrument's Trainings.
- AMC's/CMC** : We offer user training both in-House and at customer sites on instrument principles, operations, troubleshooting.
- Validations** : We have protocols for carrying out periodic Validations as per GLP/ GMP/USFDA norms.
- Instruments** : We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.



►► About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

►► Our Products & Technologies



UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Partical
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

▶▶ Regulatory compliances



▶▶ Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



Analytical Foundation

1. Research & Innovation Scientist's awards / QC Professional Award: Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

▶▶ Reach us @



Analytical[®] Technologies Limited

HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W: www.ais-india.com
www.analyticalgroup.net
www.hplctechnologies.com
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