LABORATORY EQUIPMENT

THERMOCYCLERS

CENTRIFUGUE

LIQUID HANDLING

LIVE CELL IMAGING SYSTEM

B-BOX™ EPI-ILLUMINATOR

SYNTHESIZERS

Thermocyclers

Turbo Cycler 2

TurboCycler 2 is designed specifically to enhance PCR efficiency and accuracy. It is equipped with a 7"capacitive touchscreen and a friendly graphics user interface, which makes operation highly intuitive.

Easy to Control- The sensitive 7" capacitive touchscreen enables easy operation even with laboratory gloves on.

Convenient Tools- The built-in tools allow easy Tm calculation, copy number conversion and master mix preparation

Friendly User Interface- The simple conversational graphic user interface, which has intuitive spinning wheels, makes adjustment of experiment temperature, time and cycle easy.

Efficient Remote Monitoring- The optional Wi-Fi module allows monitoring PCR run status anytime via mobile devices using the free TurboApp.

Fast heating ramp rate up to 5.5 °C/sec
Excellent temperature accuracy and uniformity (+/- 0.3 °C)
12-section gradient temperature range from 1 to 24.9 °C for PCR optimizationThe quick boot-up takes only 45 seconds

Turbocycler Lite

TurboCycler Lite offers versatile capabilities at an affordable price, making it an ideal choice for researchers' routine PCR tasks.

Intuitive Operation Experience - A sensitive capacitive touch keypad and an intuitive graphical interface

Gradient Optimization - The thermal gradient function allows fast PCR optimization for new experiments

Advanced Slow-Ramp Temperature Control - The ramp rate can be precisely controlled down to 0.1 °C/sec to meet the need for the CRISPR/Cas related assays

Fully Adjustable Lid Temperature - The temperature can be set between 35 and 120 °C for virtually any type of experiment including NGS pre-treatment

Easy Disinfection - The dust and aerosol proof keypad can be easily disinfected

Auto Restart - Power failure recovery keeps the experiment safe

Mini Turbo

MiniTurbo portable PCR thermal cycler is an ideal choice for researchers who need to proceed PCR immediately after samples collection.

Portable and Light Weight - The compact size and 1 kg weight make MiniTurbo wide applicable for use in the field, laboratories, and classrooms.

Outstanding Performance - Excellent accuracy and uniformity (+/- 0.4 °C) along with fast ramp rate allow MiniTurbo to provide the same quality performance as benchtop thermal cyclers.

Easy to Operate - All-in-one button makes the operation simple.

Fully Programmable - The open system is compatible with all programmed protocols

Tas System

Do your thermal cyclers perform at the correct temperatures? The TAS-System will tell you!

Simple, quick operation: Measure and analyse thermal cycler temperature performance in under 10 minutes, the TAS-System allows for visual comparison from test to test and enables performance tracking over the lifetime of the thermal cycler.

Flexibility: As well as its standard fixed probe plate, the TAS-System is offered with a variable probe plate option. This utilises individually interchangeable temperature probes that can be placed in any of its 96 well positions. Combined with leaded-probes, the variable probe plate offers yet further flexibility, becoming the ideal solution for testing of non-standard thermal cyclers.

Measurement integrity: Each interchangeable TAS probe is uniquely identified, allowing for the automatic detection of probe position, the application of specific calibration data for each probe, and a calibration expiry warning when relevant.

Centrifugue & Liquid Handling

Turbo Fuge

The TurboFuge is a compact microcentrifuge with 24 or 36 place capacity and a speed up to 21,400 x g that satisfies a wide range of applications.

A Robust Metal Chamber- the solid construction of the metal chamber provides stability and ample protection from the hazard of rotor imbalance

The Autoclavable Aluminum Rotor- withstands strong acids and bases to ensure an unlimited life cycle

The Motorized Dual Lock- ensures that the lid is always safely locked when the rotor is running

Intelligent Imbalance Detection- The rotor imbalance sensor turns the centrifuge off immediately if rotor imbalance is detected

Lid Drop Protection- The lid is held at 30-40 degrees to allow easy loading and unloading of tubes.

Blue Pette

Automatic Switch-On Calibration for high accuracy and precision

Unique Force-Saving Design to reduce stress and fatigue from repetitive pipetting

360º Revolving Collar for greatest positioning comfort

9 Memory Settings to save protocol set-up time

User-Friendly Interface and easy-to-operate buttons

High Capacity Lithium Battery for high stamina continuous use

5 Speeds for Aspiration and Dispensing depending on liquid viscosity

Blueswan

Proactive Hole liquid and vapors expel from the hole

High capacity Li-Polymer Battery charging 4 h for 4500 cycles

Easy Handling Ergonomic designed buttons and grip

Control speed Easily Optimize pipetting speed by adjusting the thumb wheel

EZSCOPE 101

Live Cell, Live Show

EzScope 101 is a dedicated live cell imaging system that helps to streamline your research workflow with improved efficiency and productivity, no more hassles to remove cells from incubator for observation. EzScope 101 brings 24/7 measurements under precisely controlled conditions in a non-perturbing environment. You can observe the images anytime with walk-away convenience. Up to four samples can be monitoring simultaneously in a same incubator. This feature helps reduce repetitive action, saves time, and optimizes experiment efficiency.

Incubator Live View

Designed to be used inside the incubator, without the need to remove your cells from incubator to enhance culture quality control.

Minimizes Experimental Variations

Up to four units of EzScope can to be setup in the same incubator and controlled by one computer. This enables the monitoring of samples simultaneously, reduces errors caused by environment variations.

Exceptional Image Quality

Adopts high contract brightfield optical configuration, coupled with precise motorized focusing, and two interchangeable magnifying objective lenses.

Remote Monitoring of Experiment

Allows flexible remote monitoring the assay via Windows-based remote desktop software.

Easy Image Editor

Captures and edits images easily with EzCapture software:
Live preview for up to 4 units of EzScope
Flatfielding correction for even brightfield background
Time-lapse video output
Spatial calibration
Measure and convergence analysis

Applications

Widely used in a variety of cell-related assays, such as:

Cell growth and confluence
Cell migration and wound healing
Stem cell behaviors
Cell death assays
Spheroid development and behaviors
Cultivation of yeast
Intravital studies

Blue Light LED Epi-Illuminator

Illuminator
B-BOX™ Blue Light LED Epi-illuminator Phox™ Photobox

B-BOX™ is a long wavelength, blue light LED epi-illuminator. It is compact in design and robust in constructon. The B-BOX™ epi-illuminator provides an unprecedented level of safety for its user due to its non-UV light source and a low operatng voltage of only 12 Volts, as well as its capability in working with non-carcinogenic DNA/ protein dye.

Features

- Improved cloning efficiency
- Compact, lightweight, and portable (less than 1 kg (in weight)
- Safety features include 470 nm long wavelength, without any UV radiaton hazard to its user
- Compatble with non-carcinogenic, non-ethidium bromide DNA staining dye
- User friendly: Samples are easy to visualize (when using the filter plate or goggles)
- LED light source lasts up to 50,000 hours
- Superior detecton sensitvity: ≤ 0.04 ng of DNA when using FluoroStain™ DNA Fluorescent Staining Dye, ≤3 ng of protein when using FluoroStain™ Protein Fluorescent Staining Dye (as sensitve as silver stain)
- Adjustable and removable filter plate allows for gel cutng, visualizaton, and documentaton
- Built-in barrier design, for easy clean up
- Visible in bright ambient light
- Emphasizes minimal power reliance, low heat generaton, with its own built-in heat sink

Physical Specificatons

Overall Dimensions (mm): 201.4 x 200 x 38 (D x W x H)
Viewing Area (mm): 158 x 96 (D x W)
Wavelength of LEDs (nm): 470
Number of LED Units: 72 Super Flux LEDs
LED Life up to 50,000 hours
Power: 12 Volt DC , 0.72 Amp
Electrical Requirements: AC 100~240 V, 50/ 60 Hz (Adapter)
Weight (kg): 0.95kg (Net Weight)
Shipping Weight (kg): 1.0 (Gross Weight) – Adapter (0.5 kg) not included
Material: ASA for housing; Tempered glass working area
Recommended Dyes:

ExcelDye™ DNA Fluorescent Loading Dye
FluoroDye™ DNA Fluorescent Staining Dye
FluoroStain™ Protein Fluorescent Staining Dye
FluoroVueTM Nucleic Acid Gel Stain
SYBR Green I Nucleic Acid Gel Stain

Eclipse

Automatically set up AA synthesis
Smart software predicts difficult sequences and automatically suggests protocol suitable for efficient coupling
Gives flexibility to the expert chemist to modify protocol
Precise delivery of amino acids and reagents
Amino acid pre-activation
Mixing by N2 bubbling
Heating, fast coupling and deprotection available for proven delayed gradient technique
Low solvent usage
Low cost of reagents
Low waste
All reactor, amino acid containers and reagent bottles are all easily accessible from the front
Compact footprint

Apex 396HT Peptide Library Synthesizer

The Apex 396HT Peptide Library Synthesizer is the ideal peptide instrument for drug discovery, SAR studies, receptor binding studies and other applications utilizing high throughput screening of peptide libraries. The Apex 396HT automatically prepares and cleaves peptide libraries into standard 96 well titer plates ready for concentration and screening.

- two bottom-frit 96 well titer plate reactors
- two standard 36 vessel amino acid racks
- four 750 mL reagent bottles
- self-contained enclosed work space
- flexible, easy-to-use software

Focus XC

The newest addition to AAPPTec's line of peptide synthesizers
Easy-To-Use SMART Software
Scale: 0,05 to 50 mmol /reactor
Easy to use
1-6 reactors
Simultaneous synthesis
Heating / cooling / UV-monitoring
Flexible chemistry
Pre-activation
Demonstrated proven quality, reliability, and flexibility in chemistry research and production

Focus XCi

The Focus XC is designed to meet the demands of continued medical research advancements. The Focus XCi can reliably deliver volumes as low as 200 µL to support pNA, DNA and RNA synthesis. It can also be used for traditional solid phase peptide chemistry to produce small numbers of high-quality peptides in small quantities.
The Focus XCi is a fully-automated production scale synthesizer small enough to fit on a standard bench top. This instrument is capable of preparing hundreds of grams of peptide in a single synthesis. The Focus XCi is the perfect instrument for preparing peptides for cGMP and up to 100 grams of peptide production. The Focus XCi scale range is 5.0 to 50.00 mmol. Options include additional solvent/reagent lines, 8 additional amino acid containers, heating and cooling reactors, and UV detection.

Infinity 2400™ Fastest microwave peptide synthesizer in the world

up to 6 reaction vessels simultaneously
wide range of scales 0,05 to 30 mmol
over 880 couplings in one synthesis in one mmol scale
fastest microwave synthesizer / heating / cooling
accurate reagent measuring less than 0,45%
pre-activation before delivering amino acids
easy to use / easy to program / most flexible chemestry
accurate temperature control, no overheating

Sharp Freeze ™ Lyophilizer

The Sharp Freeze™ Lyophilizer is a flexible laboratory instrument with unsurpassed performance and reliability. It is easy to control through an electronic control panel on the front of the instrument. The Sharp FreezeTM is available in two models. The 350 for a -55 ˚C temperature, and the 480 to reach -80 ˚C. Both are suitable for lyophilizing HPLC fractions containing acetonitrile or organic solvents. Each model comes in four sizes; 2L, 4L, 6L and 9L. Each system can come with either a vacuum chamber, shelf tray, tree manifold, or a combination of all three.

Peptide Synthesizers

- Eclipse
- Sharp FreezeTM Lyophilizer
- Apex 396 Parallel Synthesizer
- Apex 396HT Peptide Library Synthesizer
- Focus XC
- Focus Xi
- Focus XCi
- P4-400
- Matrix 384
- Titan 357
- Vantage
- Triton

Organic Synthesizers

- Lab Mate
- Matrix 384
- The Solution
- Vantage
- Infinity 2400

DNA / PNA SynthesizersWW

- Focus XCi

Freeze Dryers & Vacuum Concentrators