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Fully Automated Antibody Incubation System

05

This advanced system automates the labor-intensive processes in Western blotting, such as blocking, primary antibody incubation, secondary antibody incubation, and membrane washing, saving valuable time and increasing experiment reproducibility.

6-Sample Capacity & Automated Workflow

- The system supports simultaneous incubation of up to six 25 mm × 90 mm membranes with standard configuration. It also accommodates larger membranes, supporting up to three 90 mm × 90 mm or two 160 mm × 90 mm full-size membranes.
- After membrane transfer, simply place the membrane inside the instrument. This system will automatically perform blocking, membrane washing, as well as primary and secondary antibody incubations without manual intervention.

Tubeless Design

- Each sample and reagent are independently sealed, eliminating the risk of cross-contamination commonly associated with tubing-based systems.

Patented Incubation Chambers

- The unique curved chamber design ensures the membrane stays adhered to the chamber wall for optimal incubation and washing efficiency.
- Antibody consumption is minimized to ⩽2 mL per sample.

High Reagent Recovery Efficiency

- Primary and secondary antibodies are efficiently recovered through a 90° tilt system, reducing dead volume and reagent waste.

High-Definition Color Touchscreen

- Equipped with a 7-inch ergonomic touchscreen, the interface provides vivid color prompts and automatic sound alerts to guide the user through each step.

Product Specifications

Parameter	Specification
Channels	1-6 channels (varied incubation chamber sizes)
Membrane Size	25 mm × 29 mm / 90 mm × 90 mm / 160 mm × 90 mm
Antibody Volume	2-5 mL per incubation
Screen Size	7-inch color touchscreen, ergonomic design
Shaker Speed*	High, medium, low (optimized for minimal antibody usage)
Operating Temperature	4°C-35°C (suitable for long-term use in 4°C refrigerators)
Operating Humidity	30%-85%
Material	Aluminum alloy structure to prevent rust
Dimensions (L×W×H)	485 mm × 420 mm × 470 mm
Operating Voltage	220 V-240 V, 60 Hz

*Optimized to ensure minimal antibody usage while fully covering the membrane.

EZ Touch Imager

06

Fully upgraded with a 13-inch embedded touchscreen, enabling one-click imaging that saves both time and space. This all-in-one solution eliminates the need for external computers, streamlining lab workflows.

Ultra-Sensitivity

- Two orders of magnitude higher sensitivity than traditional cooled CCD systems.
- Lens-free design with direct contact between the membrane and chip ensures lossless light signal capture.

Broader Quantitative Range

- Provides a 100× broader quantitative range than cooled CCD systems.
- The 158 cm^2 large sensitive chip, with a full well capacity of 1.25×10^6 electrons, enables the simultaneous capture of both strong and weak signals.

Rapid Imaging Speed

- Over 95% of imaging is completed within 1 second.
- With a transmittance 400 times higher than that of cooled CCD cameras, the system provides razor-sharp resolution and significantly reduces acquisition time.

True One-Touch Imaging

- Designed for the lab—physical buttons ensure effortless operation with gloved hands. No software navigation, no parameter setup—just one press for instant imaging.

Product Specifications

Parameter	Specification
Product Appearance	All-in-One with embedded 13-inch touch screen; no external computer required
Capture Mode	Auto / Manual
Full Well Capacity	1.25 million e^-
Data Transfer Speed	10,000 Mbps
Light Sources Control	Chemiluminescence, Epi-White Light
Waiting Time	Turnkey system
Exposure Time	0.1-500 seconds*
Photo Sensorchip Dimensions	117 mm × 137 mm (≈158 cm^2)
User Management	Multi-user management
Multi-image Analysis	Supports 40 images at once; upgradeable to unlimited number
Automatic Image Saving	Auto-save under user login
Image Export Resolution	300 dpi, 600 dpi, 1200 dpi
Dimensions (L×W×H)	312 mm × 495 mm × 365 mm

*Over 95% of imaging is completed within 1 second.

e-BIOT

Western Blot Total Solution

Cell Disruption | Protein Extraction
Protein Transfer | Antibody Incubation
Western Blot Imaging

e-BIOT Bioscience Inc.

Touch Imager

ChemiContact Western Blot Imaging System

This innovative technology is the first of its kind, holding over ten exclusive patents. It revolutionizes chemiluminescence imaging, delivering top-notch solutions to end users.

01

Ultra-Sensitivity

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Rapid Imaging Speed

- Over 95% of imaging is completed within 1 second.
- With a transmittance 400 times higher than that of cooled CCD cameras, the system provides razor-sharp resolution and significantly reduces acquisition time.

Compact and Portable

- A turnkey solution designed for convenience, reducing lab space usage by 90%.

Product Specifications

Parameter	Specification
Capture Mode	Auto / Manual
Full Well Capacity	1.25 million e^-
Data Transfer Speed	10,000 Mbps
Light Sources Control	Chemiluminescence, Epi-White Light
Waiting Time	Turnkey system
Exposure Time	0.1-500 seconds*
Photo Sensorchip Dimensions	117 mm × 137 mm (≈158 cm^2)
User Management	Multi-user management
Multi-image Analysis	Supports 40 images at once; upgradeable to unlimited number
Automatic Image Saving	Auto-save under user login
Image Export Resolution	300 dpi, 600 dpi, 1200 dpi
Dimensions (L×W×H)	291 mm × 226 mm × 58 mm
Working Power	⩽20 W
Working Voltage	100 V-240 V
Weight	4.06 kg

*Over 95% of imaging is completed within 1 second.

Safe Grinder

The safe grinder is designed for automated batch processing of sample grinding, disruption, and mixing, ideal for protein, nucleic acid extraction, and component analysis.

02

Enhanced Safety Features

- Metal casing with IK08 impact protection.
- Mechanical lock ensures maximum safety.
- A 0.5 cm thick high-strength stainless steel latch secures items during high-speed operation.

Efficient 3D Motion Grinding

- Longer movement paths and higher speeds.
- Evenly dispersed samples for superior grinding results;
- Exerts forces in all directions on grinding beads for enhanced effectiveness.

Dual Shock Absorption System

- Reduces resonance, improving stability and repeatability.
- Minimizes startup resonance, improving equipment longevity.

Product Specifications

Parameter	Specification
Sample Throughput	12×5 mL / 24×2 mL
Touch Display	4.3-inch LCD
Programming	Grinding time (0-99 minutes, 99 seconds), interval (1-600 seconds), cycles (1-98), stores 20 programs
Anti-vibration System	Dual damping system
Grinding Mechanism	Axis-driven 3D high-speed oscillation
Grinding Precision	~5 μm
Speed Range	1200-5000 rpm (1 rpm increments, user-defined max)
Grinding Time	0-99 minutes, 99 seconds, user definable
Cycles	1-98
Start/Stop Speed	Start / stop within 2 seconds
Grinding Mode	Wet and dry grinding
Motor	Brushless DC motor
Dimensions (L×W×H)	243 mm × 243 mm × 293 mm
Weight	9.1 kg
Working Conditions	Temperature: 0-40°C; Humidity: 5%-95%

Microscale Protein Purification System

This advanced system is optimized for protein purification and cell sorting on a microscale, utilizing patented SM purification technology to automate magnetic bead-based cell sorting.

03

Dual Functionality:
Protein Purification and Cell Sorting

- Sample throughput: 1-16.
- Magnetic purification at the bottom.
- Cell sorting at the top.

Microscale Sample Processing

- Suitable for processing sample volumes between 50-2000 μL, with fast and fullyautomated workflows.
- High binding efficiency.
- Delivers reliable results with various compatible consumables.

Unique SM Purification Technology:
Upgraded Automated Magnetic Beads Sorting

- Provides efficient magnetic beads binding within SM columns.
- Offers programmable control over magnetic engagement and disengagement, allowing flexibility based on experimental needs.

Product Specifications

Parameter	Specification
Throughput	1-16 samples
Processing Volume	Loading: 0.1 mL-1.6 mL; Elution: 0.05 mL-1.6 mL
Temperature Control	0-10°C
Applications	Protein purification, protein concentration, buffer exchange, cell sorting of microscale samples
Purification Method	Magnetic bead purification
Cell Sorting Method	Top-mounted SM column sorting
Magnets	24+1
Light Sensitivity	None
Power supply	220 V (AC), 3 A
Working Power	650 W
Working Conditions	Working Temperature: -20°C to 70°C; Storage temperature: -30°C to 80°C
Dimensions (L×W×H)	505 mm × 610 mm × 450 mm

EZ BLOT One-Touch Transfer System

A highly efficient, user-friendly Western Blot transfer system designed to reduce 80% time and 87% buffer usage while maintaining 100% transfer effectiveness.

04

Rapid Transfer

- Achieves complete transfer of proteins with molecular weights ranging from 5-250 kDa in just 5-15 minutes.
- Plate electrodes, with 100% contact between sponge and electrodes, minimize the proximity between electrodes, providing an enhanced electric field, improving transfer efficiency by up to 4-folds.

Low-Temperature Transfer

- Integrated active cooling maintains low temperatures throughout the transfer process, preventing protein band diffusion. This ensures stable current flow and improved repeatability across experiments.

Buffer Savings & Open Reagent System

- Uses only 1/8 of the traditional buffer volume, requiring just 50 mL per gel for efficient transfer.
- The system is compatible with open-platform reagents, providing flexibility and cost-effectiveness.

Simple Operation

- No complex parameter setup is required. Simply press one button to initiate the transfer, after choosing gel concentration and thickness.

Product Specifications

Parameter	Specification
Function	Western Blot membrane transfer
Transfer Method	Vertical fast transfer
Gel Size	Mini gels (80 mm×96 mm)
Gel Thickness	0.75 mm-1.5 mm
Membrane Compatibility	NC membrane, PVDF membrane
Transfer Time	5-15 minutes
Experiment Time	Adjustable from 0-99 minutes, 99 seconds
Working Temperature	10°C-40°C
Working Humidity	0-80% relative humidity
Working Power	200 V-240 V (AC), 50-60 Hz
Output Voltage (DC)	Adjustable between 12 V and 45 V
Dimensions (L×W×H)	335 mm×160 mm×105 mm
Weight	3.0 kg