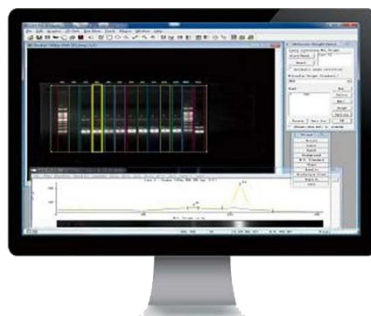


Gel Imaging System

AE8500 Automatic Gel Imaging System

Characteristics

- ◆ Fully sealed modular integrated circuit, enhancing stability
- ◆ Professional gel shooting and analysis software, easy to operate
- ◆ Software high-definition preview window for observing real-time experimental result
- ◆ Corrosion-resistant metal dark box, anti-static and anti-interference, increasing safety Ultraviolet micro distance sensing intelligent power outage protection function, more secure
- ◆ Push-pull drawer door opening, strong airtightness of the dark box, reducing pollution area
- ◆ Integral shooting, can expose samples for a long time can perform image overlay processing, and better present weak nucleic acid fluorescent bands
- ◆ Lens: Imported 6x optical zoom, motorized three-variable large-aperture Qualcomm lens
- ◆ Drawer type UV transilluminators: UV302nm, standard configuration 22*22cm Equipped with a professional protective cover for cutting gel, more safe and quick
- ◆ Built-in white light transmission plate, 21*31*0.7cm
- ◆ Optical fiber Luminescence technology, uniform optical density, 12V safety voltage
- ◆ White light reflector: double-sided high-brightness LED integrated light source, low power consumption, long life
- ◆ Filter: 590nm special imported coated filter for gel
- ◆ Software: Gel professional shooting analysis software



Software function

- ◆ Full English operation interface.
- ◆ The software has an encryption function to increase the security of experimental data.
- ◆ Direct control of digital CCD and zoom lens, exposure time, aperture, focus
- ◆ Image editing and processing functions: including image editing, deletion, pasting, copying, adding text, symbols, rotation, negative effects, black and white inversion, etc.
- ◆ It can be stained with various gel dyes such as EB, and can automatically identify band patterns or lanes of images such as DNA, RNA, protein gel, ELISA, TLC, and dot hybridization, and perform autoradiographic film imaging and analysis, and colony imaging and analysis, and automatically determine the molecular weight, IOD value, optical density value, etc.
- ◆ Real-time automatic exposure function, get the best image effect
- ◆ Various data tables can be saved in Excel format and printed,
- ◆ All images can be copied, pasted and printed,
- ◆ All images and charts can be imported into files in various formats such as Excel and Word for editing;
- ◆ Software lifetime free network upgrades.

Technical Specification

- ◆ Effective pixels: 2560*1920
- ◆ Resolution: 500million
- ◆ Pixel density: 16Bit
- ◆ Exposure time: 1ms-180ms
- ◆ Sensitivity: Can detect less than 20pgEB stained double-stranded DNA

Gel Imaging System

AE8500YT Integrated automatic gel imaging system

Characteristic

- ◆ Built-in industrial PC, stable operation
- ◆ Fully sealed modular integrated circuit to enhance stability;
- ◆ Professional gel shooting and analysis software, easy to operate
- ◆ The high-definition preview window of the software can observe the real-time experimental results, which is more convenient
- ◆ Corrosion-resistant metal dark box, anti-static and anti-interference, increasing safety
- ◆ Ultraviolet macro-sensing intelligent power-off protection function, safer operation
- ◆ Push-pull drawer door opening, strong airtightness of the dark box, maximizing the reduction of pollution areas
- ◆ Push-pull drawer door opening, strong airtightness of the dark box, maximizing the reduction of pollution areas

Built-in industrial PC

- ◆ Processor: Intel 1037U Atom Dual Core 1.8GHz
- ◆ Memory: DDR3 2G
- ◆ Hard disk: SATA 120G electronic disk
- ◆ USB: 4 group external USB
- ◆ Serial port: 5 groups com232 serial ports/1 group con485 ports
- ◆ Network port: RTL8111 controller, dual gigabit network ports

Resistive touch screen

- ◆ Resolution: 4096x 4096
- ◆ Integral shooting, can expose samples for a long time, can perform image overlay processing, and better present weak nucleic acid fluorescent bands
- ◆ Lens: Imported 6x optical zoom, motorized three-variable large-aperture Qualcomm lens
- ◆ Drawer type UV transilluminators: UV302nm, standard configuration 22*22cm Equipped with a professional protective cover for cutting gel, more safe and quick Built-in white light transmission plate, 21*31*0.7cm
- ◆ Optical fiber Luminescence technology, uniform optical density, 12V safety voltage
- ◆ White light reflector: double-sided high-brightness LED integrated light source, low power consumption, long life
- ◆ Filter: 590nm special imported coated filter for gel
- ◆ Software: Gel professional shooting analysis software

Software function

- ◆ Full English operation interface.
- ◆ The software has an encryption function to increase the security of experimental data. Direct control of digital CCD and zoom lens, exposure time, aperture, focus.
- ◆ Image editing and processing functions: including image editing, deletion, pasting, copying, adding text, symbols, rotation, negative effects, black and white inversion, etc.
- ◆ It can be stained with various gel dyes such as EB, and can automatically identify band patterns or lanes of images such as DNA, RNA, protein gel, ELISA, TLC, and dot hybridization, and perform autoradiographic film imaging and analysis, and colony imaging and analysis, and automatically determine the molecular weight, IOD value, optical density value, etc.
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- ◆ All images can be copied, pasted and printed,
- ◆ All images and charts can be imported into files in various formats such as Excel and Word for editing;
- ◆ Software lifetime free network upgrades.

Technical Specification

- ◆ Effective pixels: 2560*1920
- ◆ Resolution: 5 millions
- ◆ Pixel density: 16Bit
- ◆ Exposure time: 1ms-180ms
- ◆ Sensitivity: Can detect less than 20pgEB stained double-stranded DNA
- ◆



Chemiluminescence Imaging system AE6000mini Chemiluminescence Imaging System

Shooting software functions

- ◆ Preview function, which allows for pre-exposure in advance. If the sample intensity is high, images can be directly taken.
- ◆ Automatic exposure shooting, no need to adjust other parameters such as exposure time, just click on shooting to obtain perfect images, which is more convenient and fast.
- ◆ The software is with automatic image optimization function, automatical adjust the histogram; The grayscale of the image can be manually adjusted on the shooting interface, with the save function.
- ◆ Predefined parameter settings, storage path can be set in advance, black and white reverse, horizontal reverse, and vertical reverse can be set.
- ◆ The temperature of the CCD can be set.
- ◆ Image management function, which can achieve black and white inversion, mark stacking functions, and manually adjust color levels, and save modified images.



Analyzing Software

- ◆ It has a series of image analysis functions such as rotation, inverse color, cropping, contrast, etc.
- ◆ According to the Marker band, the molecular weight, OD value and band content of any band can be automatically calculated, and the optical density can be calculated for the specified area.
- ◆ Suitable for quantitative analysis of proteins.
- ◆ All analysis results and data charts can be exported to Excel, Word, etc. for easy storage and comparison.

Characteristic

- ◆ Professional shooting and analysis software, one-click imaging.
- ◆ Pixel Binning function to improve sensitivity and signal-to-noise ratio.
- ◆ F0.8 lens, the largest aperture in the industry, captures weak signals.
- ◆ LED integrated light source, low power consumption, long life, uniform illumination, adjustable intensity.
- ◆ Imported high-sensitivity cold CCD camera. Real-time high-definition dynamic imaging. Corrosion-resistant metal dark box one-piece sealing design, anti-static and anti-interference.
- ◆ Fully automatic computer control, integrated modular processor, improve safety and stability.

Technical Specification

- ◆ Resolution: 6.05 million pixels
- ◆ CCD size: 1", progressive scan
- ◆ Temperature: -60°C
- ◆ Pixel size: $4.65\mu\text{m} \times 4.65\mu\text{m}$
- ◆ Acquisition bit: 16bit

Lens

- ◆ F0.8 fixed focus
- ◆ White light reflector
- ◆ Automatic control, adjustable brightness, LED integrated light source on both sides

SPAT Horizontal Electrophoresis Tank

- ◆ Abundant buffer not only guarantees cooling effects, but also keeps the pH value stable during the whole experiment process.
- ◆ Removable electrodes enable maintenance and replacement easy and quick.
- ◆ With background color design on the tray, convenient to adding samples.
- ◆ It's more convenient to open the lid with the easy-open buttons.
- ◆ It prevents buffer volatilizing and electricity leakage with transparent lid.
- ◆ Auto-switch-off when the lid is moved.



Parts name	Quantity
Lid with cables	1
Body tank with electrodes	1
48×75mm Gel tray	1
Gel box	1
1.0mm thickness 3-well comb	2
1.5mm thickness 3-well comb	2
1.0mm thickness 5-well comb	2
1.5mm thickness 5-well comb	2
1.0mm thickness 9-well comb	2
1.5mm thickness 9-well comb	2

Specifications

Item	Specification
Gel size (W×L)	48×75 (mm)
No. of samples	3~18
Total buffer volume	150 (ml)
Dimension (L×W×H)	250×90×50 (mm)
Weight	0.4 (kg)