A & E LAB (UK) CO.,LTD.

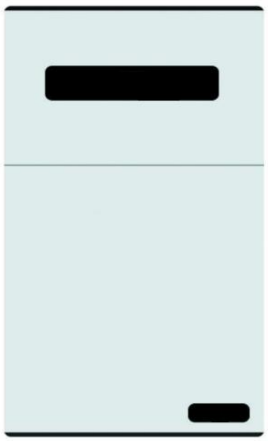
Gel & Chemiluminescence Imaging Analysis System

Automatic Gel Imaging and Analysis System

AELAB Automatic Gel Imaging and Analysis System is a highly integrated and fully automated gel imaging system, system interface is simple and practical, the main interface has shooting button and time control to guide the user, it is very easy to operate, no need to have manual and tedious debug, it is your best choice.

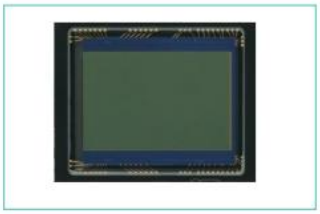
Technical Specifications:

Mode	AE-GEL100
Pixel	2592×1944(5.03MP)
Exposure Time	1ms-3000ms
QE value	High QE: >65%
Binning	1×1
Bit Depth	16 bit（0 - 65535）
OD	≥4.8 OD
Lens	Motorized 8-48 mm, F1.2
Trans-UV	302nm
Epi-White	LED
Trans-White	UV to white sample plate
Epi-UV	254nm、302nm、365nm for option
Filters	590nm， Others for option
UV area	21×21cm
Timing off	1～60 mins



Features:

High-resolution CCD camera with less noise, High sensitivity , High resolution, f 1.2 flux, 6 times zoom, three variable electric dynamic focus lens and nucleic acid dye filter.



CCD Camera

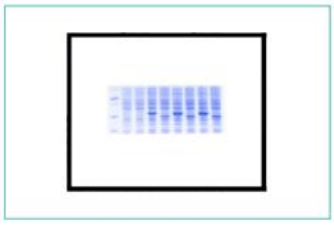
Autofocus Lens

Multilayer coating Filter

Specialized overlay glue cutting filter, compared with the traditional one, it has many advantages, easy to operate, can prevent UV and blue light damage, no need to operate in dark room, work very well under strong light condition The white light sample plate is used for SDS- PAGE glue samples shooting .

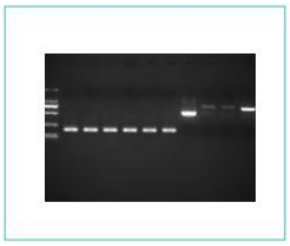
UV sample plate

glue cutting filter

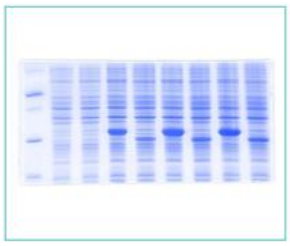


white sample plate

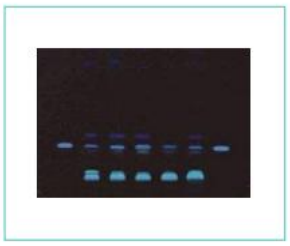
It can be used to do nucleic acid test for various fluorescent dyes, such as EB, SYBRGold, SYBR Green, SYBR Safe,Gel Red Gel GreenTexas, Red, Fluorescein marked DNA/ RNA .



DNA gel imaging



SDS-PAGE Imaging



Thin-layer chromatography

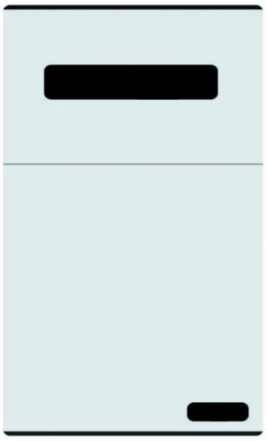
Colony counting

Automatic Chemiluminescence gel imaging system

Is fully automatic Chemiluminescence geI imaging system is highly integrated Cryogenic scientific research ultrasensitive CCD camera and wide aperture lens, it is with high sensitivity and very easy to operate.

Technical Specifications:

Model	AE-GEL600	AE-GEL900
Pixel	6.0MP	9.0MP
Cool	-65°C	
QE	High QE: >75%	High QE: >79%
Pixel size	4.54umX4.54um	
Binning	1X12x2 4x4 ・・ 8x8	
Exposure	lms-120min	
Bit	16 bit (0-65535)	
OD	N4.8OD	
Lens	F = 0.95f 25mm, optionaF = 0.8,25mm	
Uv transmission	302nm, Area21x21cm	
Lighting	LED	
Uv reBection	NO	
Filter whee	Optional!,5 position filterwheel	
Filter	Opt i ona1 590nm, Other opt i ona1	
Imaging area	20X20cm	
APP Timer shut down	1 ~ 60min	



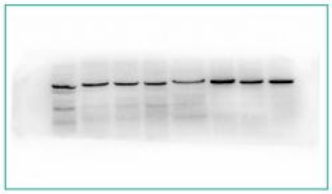
Features:

- Fully automatic control ofthe lens and light source
- Precise automatic exposure in calculate, no need to repeat calculation the exposure time
- One button shooting, marker and Chemiluminescence image automatic stacking
- Cryogenic scientific research ultrasensitive
- CCD camera , wide aperture Lens

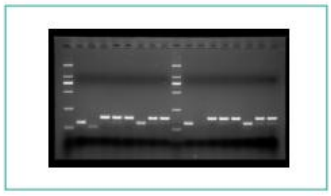
Nucleic Acid Detection: EB,SYBRGold, SYBRGreen, SYBRSafe, GelRed, GelGreen, Fluorescein.

Protein Test: Silver dyeing, SDS-page.Visible light imaging ...

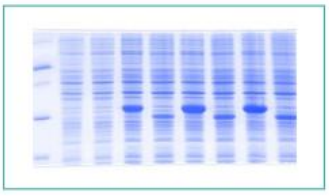
luminescence Detection: Western Blot.Western Lightning^ ECL、ECLplus ...



Western Blot.



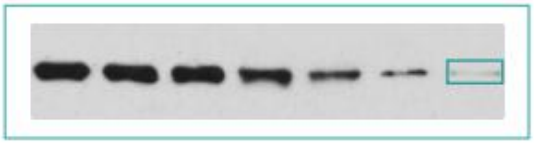
DNA Gel



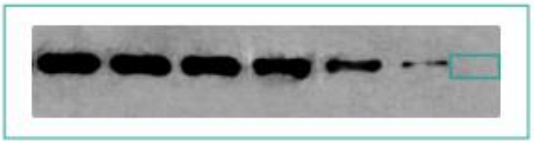
SDS-page

Performance :

Chemiluminescence imaging compared with X-Ray Film, exposure time 30s, 01 Chemiluminescence imaging1 s linear range is better then X-Ray Film, and it has ultra- high sensitivity, you can capture the weak signal .



ECL



X-Ray Film

Automatic Chemiluminescence Gel Imaging System

The full dynamic chemiluminescence / fluorescence imaging system is a multi-functional imaging analysis system with super sensitive scientific research grade cryogenic CCD camera and aperture lens. It is equipped with R GB fluorescent light source, IR infrared light source and UV light source. The light source can detect the imaging of chemiluminescence, fluorescence, light and other samples, meeting the experimental needs of customers.

High Sensitivity Camera Lens

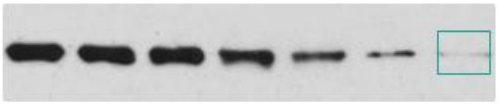
Built in touch integrated system

Laser fluorescent light source

All - moving filter wheel

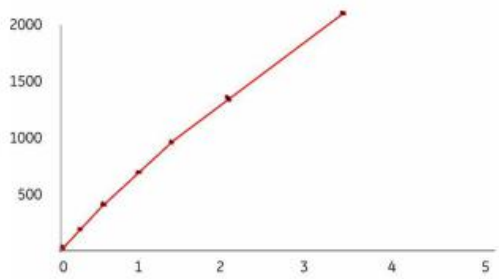
Features:

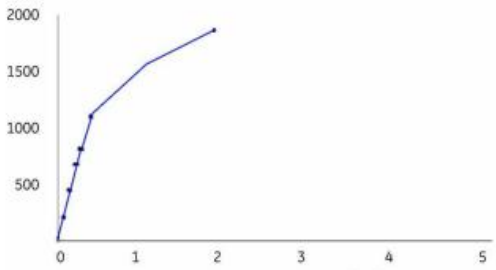
For X-ray film, the exposure time is 30 s, the linear range of o I chemiluminescence imaging is better than that of X-ray film, and has super high sensitivity, which can capture weak signals.



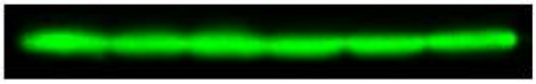
Chemiluminescence imaging

X-Ray Film

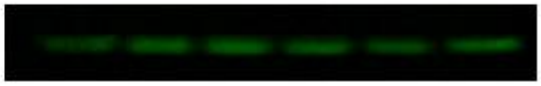




CY 3 fluorescent antibody labeling, exposure time 100 ms, it can be seen from the pair that the excitation efficiency of laser 比 LD e is many times stronger, and the coherence of the whole band is stronger than that of LED. It mainly depends on the strong penetration and linearity of the laser. The 而 LED light source is dispersive and medium 心 strong. It will weaken with the distance 而 in a short distance, and the laser stray light is less.

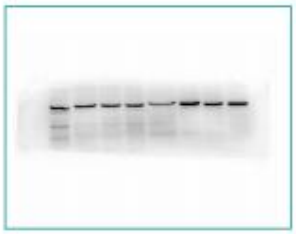


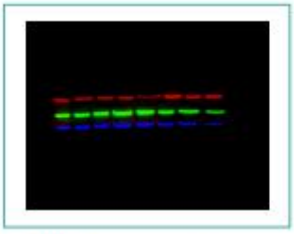
Laser green fluorescence excitation

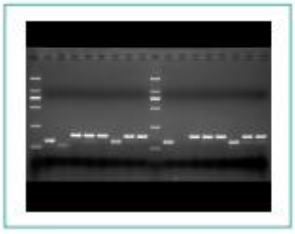


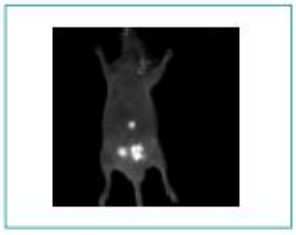
LED green fluorescence excitation

Imprinted films: C biomedicine, EC L, EC l plus, C DP star, Su per signal, CSPD, Lu miglo, cy 2, cy 3, CY 5, cy 5.5, cy 7, FITC, a LexA dyes, d y light dyes, pro Q diamond, pro Q emerald 300, pro Q Emerald 488, IR dye 680, IR dye 780, etc.
Nucleic acid detection: EB, sy brgold, SYBRGREEN, sybrsafe, GelRed, GelGreen, flu orescein, etc
DNA / RNA detection of various dyes.
Egg testing: Coomassie brilliant blue glue, silver staining glue, and various dyeable marking glue / film, etc;
Others: various hybrid membranes, egg transfer membrane, culture colony count, enzyme label plate, dot hybridization, egg core, TLC plate

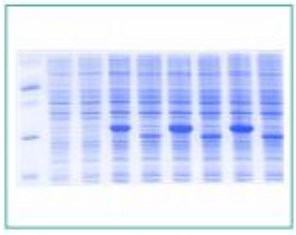

Chemiluminescence imaging

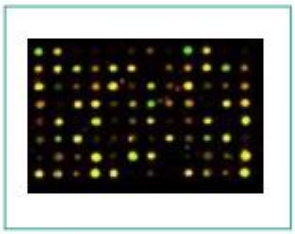

Multi fluorescence imaging


UV Gel Imaging

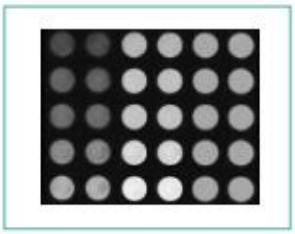

Animal in vivo imaging


Plant imaging


Page gel gel imaging


Object Core imaging


Colony count


Orifice plate imaging

Technical Specifications:

Model	AE-GEL600T
Pixel	6.0MP
Cool	-65°
QE	High QE: >75%
Pixel size	4.54um×4.54um
Binning	1×1 2x2 4x4 ·· 8x8
Exposure	1ms-120min
Bit	16 bit（0 - 65535色）
OD	N4.8OD
Lens	F = 0.95$_f$ 25mm, optionaF = 0.8,25mm
RGB light source	Optional laser 470nm (blue light) 520nm (green light) 650nm (red light)
LR light source	Optional infrared laser 680nm, 780nm (optional IR, RGB not optional)
ultraviolet transmission	Led 312nm, optional transmission blue light
White light reflection	LED light (cold light)
Ultraviolet reflection	Led UV 312nm
Filter wheel	Optional 5-7-bit filter wheel
Filter	590nm standard configuration, 520nm, 570nm, 670nm, 720nm and 820nm optional
Shoot plot	Shooting volume: 25 × 26cm
Timed off	1 ~ 60 minutes
Touch system	Optional 13 inch touch built-in system