

DW04S-3C、DW04S-3E Gel Documentation System

Introduction

DW series Gel Documentation system is used for gel map observation after electrophoresis running. DNA or other bio-moleculars can not be seen under natural light, but with the help of UV light and high resolution CCD, it can be realized with fluorescent stain, such as ethidium bromide.

Working with software, the electrophoreogram can be analysed and photographed by gel documentation system. Meanwhile, the images can be zoomed in and out according to users' requirements.

Features

1. CCD with lower lux and high-resolution, easy to get dim stripes and real-time browse, whole-screen display and simple to operate:
2. 6x zoom lens, easy to observe the zooming of gel.
3. It is easy to observe to place the gel to the center with a center indicator.
4. Intelligent control of dark box:
 - The zoom, focus, aperture, UV light and white light can be controlled by panel keys.
 - Auto-shut-down function for UV light when the door is opened and a controlled switch to UV light for gel cut.
 - Drawer-design gel platform with gel-cut protective cover, convenient to observe, operate and cut gel.
 - Auto-delay-shutdown function for UV light.
 - Zoom lens protection, RS232/USB interface.
5. White light conversion plate.
6. Multi-layer coated filter kit, effectively filter out background interference noise.
7. The zoom, focus, aperture, UV light and white light can be controlled by PC.
8. Normative and reliable modular-design components, easy to maintain and replace.



Parameters

Model	DW04S-3C	DW04S-3E
Effective pixel	1280×1024	2560×1920
Pixel density	10 bit	10 bit
Pixel size	5.4×5.4 (um)	5.4×5.4 (um)
Resolution	1.4 megapixels	5.0 megapixels
Signal to noise ratio	≥56db	≥56db
Sensitivity	Can detect the double chain DNA of EB staining below 20pg.	Can detect the double chain DNA of EB staining below 20pg.
Camera	low illumination and high resolution digital CCD	low illumination and high resolution digital CCD
Zoom lens	F=1:1.2 , 2/3" inch 6x zoom lens	F=1:1.2 , 2/3" inch 6x zoom lens
Filter	590(nm)	590(nm)
UV light transmission size(W×L)	250×200(mm)	250×200(mm)
Visible light transmission size(W×L)	250×210(mm)	250×210(mm)
Transmission UV wavelength	302(nm)	302(nm)
Reflectance UV wavelength	254,365 (nm)	254,365 (nm)
Transmission UV lamp power	302nm(8W)	302nm(8W)
Reflectance UV lamp power	254nm(11W),365nm(11W)	254nm(11W),365nm(11W)
Dimension (L×W×H)	470×405×820(mm)	470×405×820(mm)
Weight	29.0 (kg)	29.0 (kg)