



GEL DOCUMENTATION SYSTEM
LGDS-A11

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Gel Documentation System LGDS-A11 is a benchtop unit used for imaging nucleic acid and proteins suspended in various gels. Adopts Reaction Injection Molding process to mould front panel and door. Features operation mode converter (switches between PC and touch screen system), ultra-slim trans-illuminator, UV SMART trans-illuminator, CCD-camera, motor driven lenses, standard filter, adjustable stage, intuitive software etc. to ensure highly precise detection of the bands. It is mostly used in molecular biology, genetic engineering, biotechnology labs.

FEATURES

- ◆ Anti-jamming and light containment system
- ◆ Magnetic thimble interface for easy switching between blue light and white light
- ◆ UV trans illuminator with anti-UV filter for user protection, uniform brightness, better background
- ◆ System can be upgraded to higher version
- ◆ Can switch between PC and embedded touch screen operation

SOFTWARE DETAILS

- ◆ Image saved automatically
- ◆ Easy access to capture parameters
- ◆ Browsing and navigation of image
- ◆ Counter color processing, cropping and image rotation modes
- ◆ Auto-detection and numbering of gel bands
- ◆ Calculates molecular weight for each band
- ◆ Optical density calculation for quantitative analysis
- ◆ Background wipe mode to optimise visual effect
- ◆ Software supports Pixel binning technology without any additional cost.
- ◆ Software binning modes: 1×1, 2×2, 3×3, 4×4, 5×5

APPLICATIONS

Used in genetic engineering, biotechnology, molecular biology for obtaining high quality images of DNA/RNA bands using various techniques like western blotting, ELISA and in estimation of protein, nucleic acid content.

SPECIFICATION

Model No	LGDS-A11
Resolution	CCD camera , 5.2 megapixels, 2560 × 2048
A/D	16-bit (65536 Grey Scales)
Quantum Efficiency	≥ 82%
Lens	F/1.2 Motorized
Readout Noise	3.2e-RMS
Dark Current	1e-/pixel/sec. at 25°C
SNR	72.8 dB
Light Sources	UV Smart UV Transilluminator (302nm)
	Super Slim white LED Transilluminator
	Super Slim blue LED Transilluminator (470nm) (optional)
Emission Filter	590 nm
Sample Area	260 × 210 mm
Format For Storing Image	JPG/TIFF/PNG/BMP
Packaging Dimension	560 × 480 × 780 mm + 370 × 350 × 490 mm (2 cartons)
Gross Weight	39 kg

OPTIONAL ACCESSORIES

Accessory Number	Accessory Name
1	Super Slim blue LED Transilluminator (470nm)
2	8 socket filter wheel
3	Multi-fluorescence light