



GEL DOCUMENTATION SYSTEM

LGDS-A10

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Gel Documentation System LGDS-A10 a advanced gel documentation unit for imaging nucleic acid (DNA/RNA) and Proteins suspended in various gels. Adopts Reaction Injection molding process to mould front panel and door. Features operation mode converter (switch between touch screen system and PC), Scientific Digital Camera. The standard light source comprises LED Epi-white light× 2, UV Transilluminator (302 nm), and White LED Transilluminator. Motor driven lenses, standard filter, adjustable stage, intuitive software etc. ensures highly precise detection of the bands. Widely used in molecular biology, genetic engineering, biotechnology etc. research laboratories.

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

Gel documentation system with standard configuration of DNA, RNA, Protein analysis, used in genetic engineering, biotechnology, molecular biology field, for obtaining high quality images of DNA, RNA, Protien bands using various techniques like western blotting, ELISA and in estimation of protein, nucleic acid content.

SPECIFICATION

Model No	LGDS-A10
Resolution	Scientific Digital Camera
A/D	16-bit (65536 Grey Scales)
Quantum Efficiency	≥ 70%
Lens	F/1.2 Motorized
Readout Noise	5.1e-RMS
Dark Current	1e-/pixel/sec. at 25°C
SNR	70.1 dB
Light Sources	LED Epi-white lightx 2, UV Transilluminator (302 nm), and White LED Transilluminator
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

- ◆ Blue LED Transilluminator (470 nm)
- ◆ 8 Sockets filter wheel
- ◆ Fluorescence Channel Cy5
- ◆ Fluorescence Channel Cy3
- ◆ Fluorescence Channel Cy2
- ◆ Fluorescence channel Cy5.5