

GEL DOCUMENTATION SYSTEM

ALS-INS012



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FEATURES

High-Resolution Camera:

6.3 Megapixels CMOS camera with 3072x2048 pixel resolution for clear, precise images.

Pixel Size: 2.4 x 2.4 μm for high sensitivity, enabling detection of weak signals.

Black and White Camera: Allows for precise grayscale imaging with a 16-bit depth (256 levels).

Exposure Range: Adjustable from 17 μs to 15s to cater to various sample types.

OPTICAL SYSTEM

Motorized Zoom Lens: Focal length adjustable between 8-48mm, with aperture settings from F1.0 to F16 for customizable imaging based on your needs.

ILLUMINATION

Bright Field Light Source: Symmetrically distributed downward-facing LED lights provide even, consistent illumination.

UV Light Source: 302nm LED array for uniform transmission illumination.

DARK BOX

Fully sealed dark box to isolate environmental light for enhanced image clarity.

Safety Features: The UV light source turns off automatically when the door is opened, ensuring user safety.

GEL CUTTING

UV light source can be pulled out for gel cutting with a UV protection shield, ensuring precise and safe gel manipulation.

FIELD OF VIEW

Effective field of view of 220 x 220 mm, ideal for various gel sizes and types.

SOFTWARE AND IMAGE PROCESSING

Camera Settings: Easily adjustable parameters for contrast, exposure time, and gain to suit different sample needs.

Lens Adjustment: Multiple adjustment options (coarse, fine, super-fine) for zoom, focus, and aperture control.

Image Cropping: Users can crop images to focus on specific bands, ensuring accurate analysis.

Annotation Tools: The intuitive image tool interface includes manipulation and annotation tools for documentation purposes.

BUILD QUALITY

Constructed with a high-grade metallic frame for durability and long-term use. Drawer-type UV Transilluminator for easy sample placement and removal, designed with user safety in mind.

TECHNICAL SPECIFICATIONS

Pixel Resolution	6.3 million pixels (3072 x 2048)
Pixel Size:	2.4 x 2.4 μm
Exposure Time:	2.4 x 2.4 μm
Focal Length:	8-48mm
Grayscale:	16-bit (256 levels)
Field of View:	220 x 220 mm
Operating System:	Windows OS, 10.4-inch
Display:	(1024 x 768 resolution)
External Interfaces:	USB 3.0 x 2
Operating Voltage:	100V-240V
Power Consumption:	200W
Net Weight:	27kg
1D Image analysis:	1D image