ALC-Scientific

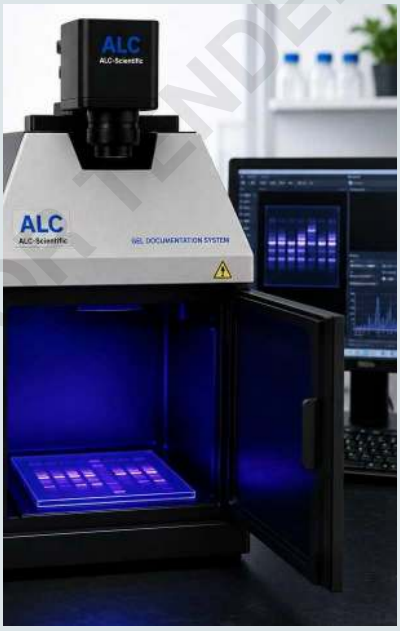
PRODUCT BROCHURE

IMAGING / GEL DOCUMENTATION

GEL DOCUMENTATION SYSTEM

Controlled imaging. Traceable gel documentation.

A proposed enclosed digital imaging system for capturing, documenting and analysing fluorescently stained nucleic-acid and protein gels with reduced ambient-light interference.



CAMERA	12-16 MP proposed
BIT DEPTH	16-bit preferred
IMAGING AREA	200 x 200 mm+

PROPOSED MODEL
ALC-GDOC16

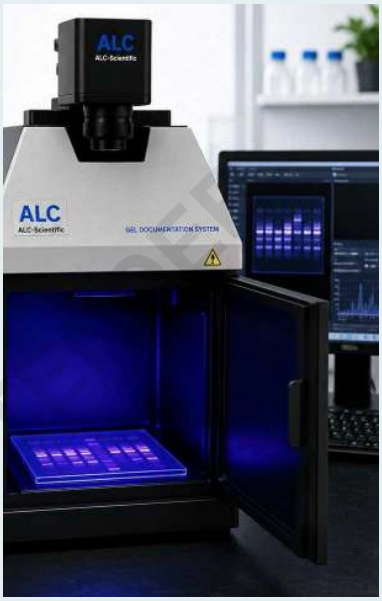
CATALOGUE NUMBER
ALC-IM-GDOC-016

PROPOSED SPECIFICATION SET

Final values, accessories, warranty and compliance require approval against the selected OEM datasheet.

PRODUCT OVERVIEW

Controlled imaging.



The ALC-GDOC16 Gel Documentation System is intended for repeatable acquisition and analysis of fluorescent or visible gel images. An enclosed dark chamber, camera, lens, transillumination platform and analysis software support band visualization, measurement and report preparation. Camera, illumination and software values remain configuration-dependent.

CAMERA

12-16 MP proposed

BIT DEPTH

16-bit preferred

IMAGING AREA

200 x 200 mm+

Key Features

- High-resolution digital or scientific CMOS camera
- Fully enclosed dark imaging chamber
- UV transillumination for common gel stains
- Optional blue-light and white-light illumination
- Automatic and manual exposure control
- Motorized or manual zoom lens
- Band detection, molecular-weight and densitometry tools
- USB and network data export with optional integrated controller

Working Principle

A gel is illuminated using a suitable UV, blue or white-light source. Fluorescent or visible signals are filtered and captured by the camera inside a dark enclosure. Software converts the image into a digital record for annotation, lane analysis, band quantification and reporting.

TYPICAL APPLICATIONS

DNA and RNA gel documentation / Protein-gel documentation / Band quantification / Molecular-weight estimation / Research-data archiving / Publication image preparation

PROPOSED TECHNICAL DATA

Model-specific values require OEM confirmation.

PARAMETER	PROPOSED SPECIFICATION
Camera	Scientific CMOS or high-resolution digital camera
Camera resolution	Approximately 12-16 megapixels
Image bit depth	16-bit preferred
Lens	Motorized or manual zoom lens
Maximum imaging area	Approximately 200 x 200 mm or larger
UV wavelength	Approximately 302/312 nm
Optional illumination	Blue LED and white light
Emission filter	Suitable for common DNA-gel stains
Exposure	Automatic and manual
Image formats	TIFF, JPEG, PNG or compatible
Analysis functions	Lane, band, molecular-weight and densitometry
Data connection	USB and LAN; Wi-Fi optional
Safety	Door-activated UV safety interlock
Power supply	220-240 V AC, 50 Hz

STANDARD SUPPLY

- Dark imaging cabinet
- Camera and lens
- UV transilluminator
- Emission filter
- Image-analysis software
- Power and communication cables

OPTIONAL / MODEL-DEPENDENT

- Blue-light transilluminator
- White-light conversion screen
- Additional emission filters
- External computer and monitor

TO BE CONFIRMED

- Exact camera sensor and resolution
- Software licence and OS compatibility
- Computer/controller inclusion
- Warranty and validation documents

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APPLICATIONS & ENQUIRY

LABORATORY APPLICATIONS

A practical platform for professional laboratory workflows.

Applications

- DNA and RNA gel documentation
- Protein-gel documentation
- Band quantification
- Molecular-weight estimation
- Research-data archiving
- Publication image preparation

Product Advantages

- Enclosed repeatable imaging environment
- Digital archiving and analysis workflow
- Multiple illumination options by configuration
- Supports quantitative gel review
- OEM-ready branding and documentation

INDUSTRIES SERVED

Molecular-biology laboratories / Biotechnology research / Pharmaceutical laboratories / Universities and diagnostic research

SCAN TO VIEW PRODUCT

Request a model-specific quotation.

Share your application, required capacity or range, quantity, installation city and documentation needs. Final performance values and accessories are issued with the approved datasheet and quotation.

ALC-SCIENTIFIC LABORATORY SYSTEMS

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OEM / PRIVATE LABEL AVAILABLE