



MOLECULAR BIOLOGY / GEL VISUALIZATION

UV TRANSILLUMINATOR

Uniform UV illumination. Clear fluorescent band viewing

The ALC-UVT312 is a proposed benchtop UV transilluminator for visualizing fluorescent DNA, RNA and compatible protein gels. The supplied reference configuration uses 302 nm illumination, a 200 x 150 mm viewing area and a protective viewing screen.



UV WAVELENGTH 302 nm

VIEWING AREA 200 x 150 mm

UV LAMP 15 W

PROPOSED MODEL

ALC-UVT312

CATALOGUE NUMBER

ALC-MB-UVT-312

PROPOSED SPECIFICATION SET

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



PRODUCT OVERVIEW

Designed for routine gel inspection and documentation.

The ALC-UVT312 UV Transilluminator is intended for rapid visual inspection of fluorescent bands in agarose and compatible protein gels. Ultraviolet light is directed upward through the filter surface to excite UV-responsive stains. The reference artwork shows a 302 nm configuration, a 200 x 150 mm viewing area and a protective viewing screen. Final wavelength, lamp power, filter design, intensity control and safety features require OEM confirmation.



ILLUMINATION

302 nm

VIEWING AREA

200 x 150 mm

INPUT POWER

AC 220 V, 50/60 Hz

Key Features

- 302 nm UV reference configuration for common gel stains
- Illuminated surface sized for routine mini and midi gels
- Protective viewing screen in the reference design
- Uniform upward illumination for band visualization
- Simple benchtop operation with immediate visual feedback
- Compact enclosure suited to molecular-biology laboratories
- Compatible with photography or gel-documentation workflows
- Model-specific intensity and safety controls confirmed before supply

Working Principle

Ultraviolet light passes through the transilluminator filter and excites fluorescent molecules bound to nucleic acids or proteins in the gel. The emitted visible light reveals separated bands. Band brightness depends on stain chemistry, UV wavelength, sample concentration and observation conditions.

TYPICAL APPLICATIONS

DNA/RNA band visualization / Agarose-gel review / PCR-product checking / Restriction-digest analysis / Gel documentation / Teaching and research



PROPOSED TECHNICAL DATA

Reference values require model-specific OEM confirmation.

PARAMETER	PROPOSED SPECIFICATION
Model / series	Proposed ALC-UVT312
Illumination wavelength	302 nm - reference artwork value; to be confirmed
Illuminated viewing area	200 x 150 mm - reference artwork value; to be confirmed
UV lamp power	15 W - reference artwork value; to be confirmed
UV filter	5 mm filter; 95% UV transmittance stated; to be confirmed
Viewing shield / lid	Included in reference design; final material to be confirmed
Input power	AC 220 V, 50/60 Hz - reference artwork value
Dimensions (L x W x H)	300 x 240 x 110 mm - reference artwork value
Weight	Approximately 3.2 kg - reference artwork value
Intensity settings	To be confirmed
Safety interlock / timer	To be confirmed

STANDARD SUPPLY

- UV transilluminator
- Protective viewing shield
- Power cord
- Operation manual (TBC)

INSTALLATION

- Stable laboratory bench
- Earthed matching AC outlet
- Shield-opening clearance
- Trained-user access
- OEM manual compliance

TO BE CONFIRMED

- Exact wavelength / lamp set
- Intensity control and timer
- Materials and safety interlock
- Accessories and documentation
- Warranty and validation



LAB-GRADE ENGINEERING | OEM-SCALE RELIABILITY
SCIENTIFIC SUPPORTABILITY | OEM-SCALE SUPPORTABILITY

APPLICATIONS & ENQUIRY

LABORATORY APPLICATIONS

A clear viewing platform for gel-analysis workflows.

Applications

- DNA and RNA band visualization
- Agarose-gel electrophoresis review
- PCR-product and restriction-digest checking
- Band location before documentation or excision
- Compatible fluorescent protein-gel applications
- Molecular-biology teaching and demonstration

Product Advantages

- Rapid direct visualization of fluorescent gel bands
- Compact standalone benchtop format
- Reference 302 nm configuration for common stains
- 200 x 150 mm illuminated reference viewing area
- Protective viewing screen reduces direct exposure
- Suitable for routine gel checking and documentation
- OEM-ready branding and documentation coordination

Request a model-specific quotation.



SCAN FOR PRODUCT PAGE

alcsscientific.com/products/uv-transilluminator/

Share your application, gel size, preferred wavelength, stain type, viewing-area requirement, quantity, installation city and documentation needs. Final performance values and accessories are issued with the approved technical datasheet and quotation.

ALC-SCIENTIFIC LABORATORY SYSTEMS

alcsscientific.com

+91 89501 26206

info@alcsscientific.com

OEM / PRIVATE LABEL AVAILABLE

Product images are for reference and may vary according to the selected configuration. Specifications, dimensions, accessories and designs are subject to change. Final specifications are those stated in the approved technical datasheet and commercial quotation. Standard warranty: To be confirmed according to the selected product and approved commercial quotation.