



Slim Blue Green View LED Transilluminator

User Manual

Cat. No. FG-08slim



Double-sided LED illumination for fluorescent and colorimetric samples

Read this manual before operating the instrument. For laboratory use only.

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1 Intended use

The FastGene® Slim is a double-sided LED transilluminator for visualizing fluorescent samples and colorimetric gels. The Blue Green View side provides illumination at 495 nm for compatible fluorescent DNA and RNA dyes, fluorescent stains and selected fluorescent proteins. The white LED side is intended for colorimetric gels, Coomassie-stained protein gels and colony plates.

The instrument is intended for indoor laboratory use only. It is a research-use only instrument and is not intended for diagnostic procedures.

2 Safety information



- Read and follow this manual before using the instrument.
- Use the instrument only for the applications described in this manual.
- The instrument does not use UV radiation. However, the Blue Green LEDs are an intense visible-light source. Do not look directly into the illuminated surface and use the amber filter shield when viewing fluorescent samples.
- Operate the instrument on a stable, dry and level surface. Keep the instrument, power adapter and electrical connections away from liquids.
- Do not operate the instrument, cable or adapter if any component is damaged.
- Use the supplied adapter or a power source that provides the correct voltage, current, polarity and connector.
- Switch off and disconnect the instrument before cleaning, moving or turning it over.
- Do not open or modify the instrument. It contains no user-serviceable parts.
- Follow the safety instructions for gels, fluorescent dyes, staining solutions and biological samples used with the instrument.
- When excising bands, do not allow sharp blades or knives to contact the illumination surface. Use a plastic gel band cutter, suitable gel tray or protective sheet to prevent scratches.

3 CE conformity

The product bears the CE marking. The CE mark indicates that the product is declared by the responsible economic operator to meet the applicable European Union requirements. The corresponding EU Declaration of Conformity is available from NIPPON Genetics EUROPE upon request.





4 Package contents

No.	Component
1	FastGene® Slim Blue Green View LED Transilluminator
2	Amber filter shield
3	AC DC power adapter
4	Detachable mains power cable
5	QR code card linking to this user manual

5 Technical specifications

Parameter	Specification
Model and catalogue number	FG-08slim
Design	Double-sided 2-in-1 LED transilluminator
Illumination	Blue Green View LED and white LED
Blue Green wavelength	495 nm
Overall dimensions	200 × 200 × 15.6 mm
Illumination area	153 × 153 mm
Weight	Approx. 935 g
Instrument input	12 V DC, 2 A; center-positive DC barrel connector
Supplied adapter input	100-240 V AC, 50/60 Hz, 1.4 A
Supplied adapter output	12 V DC, 3 A, 36 W maximum
Recommended operating conditions	10-35 °C; 20-80% RH, non-condensing; indoor use
Recommended storage conditions	0-50 °C; dry, non-condensing environment

6 Applications and compatible stains

6.1 Blue Green View side

Use the 495 nm Blue Green View side to visualize compatible fluorescent DNA and RNA dyes, fluorescent stains and selected fluorescent proteins. It can also be used when locating and excising fluorescent DNA bands.

Examples of compatible nucleic-acid stains include:

- MIDORI Green Advance
- MIDORI Green Xtra
- MIDORI Green Easy
- MIDORI Green Direct
- SYBR® Safe
- GelRed®
- Ethidium bromide

Signal intensity can vary depending on the stain, dye concentration, gel thickness and sample amount.



Figure 1: FastGene® Slim Blue Green View LED Transilluminator, Blue Green View side.

6.2 White LED side

- Coomassie-stained protein gels
- Colorimetric gels and membranes
- Colony plates
- Other samples suitable for visible white-light illumination



Figure 2: FastGene® Slim Blue Green View LED Transilluminator, White LED side.

7 Operating instructions

1. Place the instrument on a dry, stable and level work surface.
2. Choose the required illumination mode. Position the Blue Green View side upward for compatible fluorescent samples, or turn the instrument over and position the white LED side upward for colorimetric applications.
3. Connect the supplied power adapter to the DC input on the instrument and then connect the mains cable to an appropriate electrical outlet. A compatible power-bank setup may be used as described in Section 7.
4. Place the gel, plate or sample centrally on the illumination area. Where possible, position the sample before switching on the light.
5. Press the power button on the side of the instrument.
6. For fluorescent samples, position the amber filter shield between the illuminated sample and your eyes. Slide the support edge beneath the instrument so that the shield stands securely in front of the viewing area.
7. Observe the sample. For band excision, keep the gel on a suitable tray or protective sheet and prevent cutting tools from touching the illumination surface.
8. After use, switch off the instrument, disconnect the power source and remove the sample.



Figure 3: FastGene® Slim Blue Green View LED Transilluminator in use example with amber filter shield and fluorescent gel card.



8 Cleaning and care

- Switch off and disconnect the instrument before cleaning.
- Remove gel and staining residues promptly after use.
- Wipe the surface with a soft, lint-free cloth lightly moistened with water, mild laboratory detergent or 70% ethanol.
- Do not pour or spray liquid directly onto the instrument and do not immerse it.
- Do not use abrasive cleaners or sharp tools on the illumination surfaces.

9 Troubleshooting

Issue	Recommended action
Instrument does not switch on	Check the adapter, cable, DC connector and electrical outlet. Confirm that the power source provides 12 V DC.
Power-bank operation does not work	Confirm that the power bank supports a 12 V USB-C PD profile and that the trigger cable is configured for 12 V.
Fluorescent bands are difficult to see	Use the Blue Green View side, check stain compatibility and position the amber filter shield correctly.
Illumination flickers or appears uneven	Switch off the instrument and contact NIPPON Genetics EUROPE.
Instrument, cable or adapter is damaged	Stop using the instrument and contact NIPPON Genetics EUROPE.

10 Disposal

Do not dispose of the instrument or power adapter with unsorted household waste. Dispose of electrical and electronic equipment in accordance with local WEEE and recycling requirements.

11 Contact

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