

# FastGene® Blue/Green LED Flashlight

## Instruction Manual



Catalogue Number FG-11

Version 07/2015

## Hardware Instruction Manual

**The FastGene® Blue/Green LED Flashlight is suitable for research use only.**

The FastGene® Blue/Green LED Flashlight must be used by specialized personnel that know the health risks associated with blue/green light irradiation and with the reagents that are normally used with this instrument. Human naked eyes with long time irradiation of blue/green light may have the probability of suffering from retina diseases. The amber filter provides blue/green light protection. However, it does not guarantee complete protection. It is designed to shield the person working at the LED Flashlight only.

### WARRANTY

The FastGene® Blue/Green LED Flashlight is warranted against defects in materials and workmanship for 1 year. If any defects occur in the instrument or accessories during this warranty period, Nippon Genetics Europe GmbH will repair or replace the defective parts at its discretion without charge. The following defects, however, are specifically excluded:

1. Defects caused by improper operation.
2. Repair or modification done by anyone other than Nippon Genetics Europe GmbH or an authorized agent.
3. Damage caused by substituting alternative parts.
4. Use of fittings or spare parts supplied by anyone other than Nippon Genetics Europe GmbH.
5. Damage caused by accident or misuse.
6. Damage caused by disaster.
7. Corrosion caused by improper solvent or sample.

For any inquiry or request for repair service, contact your local Nippon Genetics Europe GmbH office. Inform Nippon Genetics Europe GmbH of the model and serial number of your instrument.

### REGULATORY NOTICE

**IMPORTANT:** This instrument is designed and certified to meet safety standards and EMC regulations. Certified products are safe to use when operated in accordance with the instruction manual. This instrument should not be modified or altered in any way. Alteration of this instrument will:

1. Void the manufacturer's warranty
2. Void the safety and EMC certification
3. Create a potential safety hazard

Nippon Genetics Europe GmbH is not responsible for any injury or damage caused by the use of this instrument for purposes other than those for which it is intended, or by modifications of the instrument not performed by Nippon Genetics Europe GmbH or an authorized agent.

### IMPORTANT NOTICE

Please, read the installation instruction carefully before using the FastGene® Blue/Green LED Flashlight. This instrument is intended for research laboratory use and it must be operated only by specialized personnel aware of the potential risks associated with the chemical and biological agents normally used with this unit. This instrument is meant for use only by specialized personnel that know the health risks associated with blue/green light radiation and with reagents that are normally used with this instrument. The amber filter provides some blue light protection. However, it does not guarantee complete protection, and it is designed to shield only the person working in front of the system, also to observe the DNA gel fluorescence emission clearly.

## GENERAL PRECAUTIONS

- **Do not look at the blue/green light directly without protective gear!**
- **Do not use the instrument continuously for longer than 10 minutes to prevent overheating.**
- Plug the FastGene® Blue/Green LED Flashlight on an electric line with ground connection in order to re-charge the battery.
- Do not pour liquids directly on the FastGene® Blue/Green LED Flashlight.
- Switch off the instrument immediately after its use.
- Position the FastGene® Blue/Green LED Flashlight to prevent harm to nearby operators.

## General Appearance of the FastGene® Blue/Green LED Flashlight



## SPECIFICATIONS

- Dimensions (mm) without filter: 190 D x 39 W x 25 H
- Viewing surface of the filter (mm): 70 D x 160 W
- Wavelength (nm): 480 – 530 nm
- LED arrangements: matrix for two - side illumination
- LED lifetime: 50,000 hours
- Power: 24W  
24V DC 1. A power adaptor
- Voltage: 100 - 240 V
- Weight (Kg): 0,17 kg
- Operating environment:

Temperature 5 °C - 40°C  
Humidity 20% - 70%  
Indoor Use Only

## TECHNICAL SUPPORT

Nippon Genetics Europe GmbH offers technical support for all of its products. If you have any questions about the product's use or, operation, please contact Nippon Genetics Europe GmbH at the following info.

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