

 **FastGene**[®]

Blue/Green Transilluminator DE FG-09WS

Manual





General Information

SAFETY INFORMATION

Please read carefully the following notes to be able to properly use the FastGene® Blue/Green Transilluminator DE.

- Using FastGene® Blue/Green Transilluminator DE instrument will normally not injure eyes, skins, and samples. However, prolonged exposure of human naked eyes with light irradiation in the blue spectrum may increase the probability of suffering from retina diseases. Therefore, we recommend using the amber goggle or an amber shield.
- Operate the Transilluminator only if it is connected to a safety socket.
- Place the unit on a level and stable surface with minimal chance of dropping.
- The device and the LEDs can heat up after some time.



- Use this device only with the supplied or an equal power adaptor.

WARRANTY

The FastGene® Blue/Green Transilluminator DE is warranted against defects in materials and workmanship for 1 year. In case of any defects occurring in the instrument or accessories during this warranty period, NIPPON Genetics EUROPE will repair or replace the defective parts at its discretion without charge.

The following defects, however, are specifically excluded:

- Defects caused by improper operation.
- Repair or modification done by anyone other than NIPPON Genetics EUROPE or an authorized agent.
- Damage caused by substituting alternative parts.
- Use of fittings or spare parts supplied by anyone other than NIPPON Genetics EUROPE.
- Damage caused by accident or misuse.
- Damage caused by disaster.
- Corrosion caused by improper solvent or sample.

For any inquiry or request for repair service, contact NIPPON Genetics EUROPE or your local distributor. Please send a message containing information about the model and serial number of your instrument.

REGULATORY NOTICE

IMPORTANT: This NIPPON Genetics EUROPE 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 must not be modified or altered in any way. Alteration of this instrument will:

- Void the manufacturer's warranty
- Void the safety and EMC certification
- Create a potential safety hazard

NIPPON Genetics EUROPE 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 or an authorized agent.

IMPORTANT NOTICE

Please, read the installation instruction carefully before using the FastGene® Blue/Green Transilluminator DE. This instrument is intended for clinical and research laboratory use with DNA gel activation 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 and the health risks associated with blue light radiation. Please wear use the amber shield for your own protection!

Please make sure to connect the instrument only to a safety grounded socket!

For research use only!

Specifications

Built-in Blue/Green LED light	470-520 nm
View Area	26 x 21 cm
Dimension	32 x 32 x 12 cm (DxWxH)
LED arrangements	Matrix for two-side illumination
LED lifetime	25,000 - 50,000 hours
Current rating	2 A
Voltage	110 – 240 V, 50/60 Hz 24 V, 2 A via power adaptor
Weight	4.2 kg
Operating environment	Temperature: 5 – 40 °C Humidity: 20 – 70 % Indoor use only

Installation

INSTALLATION

Carefully unpack the transilluminator and follow the instruction steps:

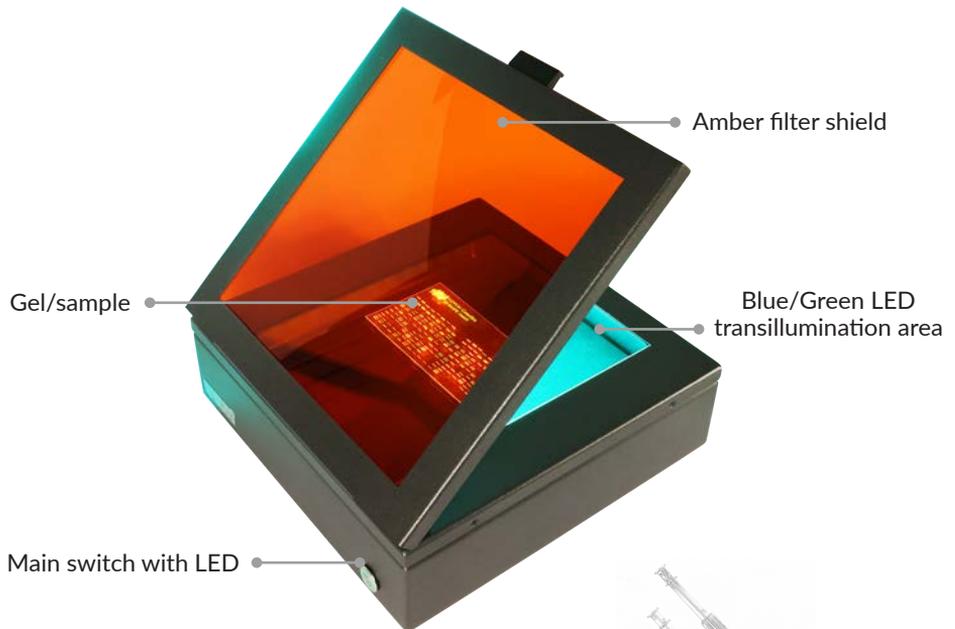
1. The instrument must be placed on a flat horizontal bench top leaving at least 10 cm of space all around in order to avoid any obstacle that may reduce the ventilation.
2. Connect the instrument to the power using the annexed cable and power adaptor. The power font must be able to deliver at least 250 VA with a voltage between 100 and 240 Vac. The plug must have a ground connection.

General Precautions

- Plug the transilluminator on an electric line with ground connection by using the annexed power adaptor.
- Do not pour liquids directly on the transilluminator.
- Switch off the instrument immediately after usage.
- Position the transilluminator to prevent harm to nearby operators.
- During the operation of the transilluminator, please wear amber goggles or look through the amber shield.
- Clean with ddH₂O, alcohol or appropriate cleaning agents according to the chemicals used.
- Always wear disposable gloves.

Using the transilluminator

Place gel/sample on the transparent glass support area. It is recommended that researchers place the gels on a Gel Tray to protect the glass surface from cuts and scratches, caused by the use of a scalpel for cutting the gel. It is recommended that gloves are to be worn to prevent skin contact with gel and staining agents. Press the switch to turn the device on. The LEDs within the unit will begin glowing beneath the glass surface. After viewing the sample, turn the transilluminator off.



Also included:

- Power adaptor
- Manual
- FastGene® Gel Band Cutter (FG-830)



FastGene® Gel Band Cutter (FG-830)

Heat protection:

The FastGene® Blue/Green Transilluminator DE is equipped with a heat protection. The LEDs will shut off for 5 minutes if a specific temperature is detected. During the "cooling phase" the switch is blinking. After cooling down the LEDs will not switch on automatically and the switch is not blinking anymore. You can now switch on the transilluminator again.

Trouble shooting

Problem	Possible causes and/or corrective action
B/G LEDs and switch are not shining	The power cable is not plugged into a power socket or is not connected to the Power Supply.
B/G LEDs are not shining. Switch is blinking	The Transilluminator is in the “heat protection” mode. Please wait 5 minutes.

NIPPON Genetics EUROPE offers technical support for all of its products. If you have any question about the product's use or operation, please contact NIPPON Genetics EUROPE:

NIPPON Genetics EUROPE GmbH
 Mariaweilerstraße 28-30
 52349 Dueren/Germany
 Tel.: +49 2421 554960
 Fax: +49 2421 5549611
 Email: info@nippongenetics.eu



NIPPON Genetics EUROPE GmbH

 +49 2421 55496 0  info@nippongenetics.de
 +49 2421 55496 11  www.nippongenetics.eu

