

# FastGene™ FAS-V Imaging System



- ✔ Safe Blue/Green LED light - No damaging of your DNA
- ✔ Stand-alone system
- ✔ White LED light for the documentation of protein gels
- ✔ Easy-to-use software
- ✔ Best image quality

## Stand alone documentation

The FastGene® FAS-V is our most advanced imaging system, working with the innovative Blue/Green LED excitation light technology for the detection of DNA/RNA. This imaging platform combines a powerful CCD camera, brilliant touchscreen display and the superior technology of ultra-bright Blue and Green LEDs. The aquamarine-colour illumination hits the sweet spot for exciting common red and green DNA dyes such as EtBr and MIDORI<sup>Green</sup>. You can always expect at least equivalent results as compared to UV-light transilluminators, but without the risk of damaging DNA or harming your skin and eyes. That's because the lower energy photons from these LEDs will not crosslink DNA (rendering it unable to be replicated) unlike short wave UV-light.

## Customer Testimonial

"We decided to purchase the FAS-V gel documentation system with its CCD sensor, because we were very interested in the integrated Blue/Green LED technology. This light protects the skin and eye of the user and is also safe for the examined samples. [...] The FAS-V has no disadvantages compared to conventional UV-based gel documentation systems. Even at low concentration it is possible to visualize DNA bands. Furthermore, with the integrated white light it is possible to document finished Western blots. Working with the FAS V is simpler and faster than with our previous device. Because of the simultaneously recording of 6 images with different exposure values you always get very good images of your gel in a very short time. We are very satisfied with the FAS-V and can recommend the device in good conscience."



**German Researcher**  
Institute of Technical Chemistry,  
Leibniz University Hannover, Germany

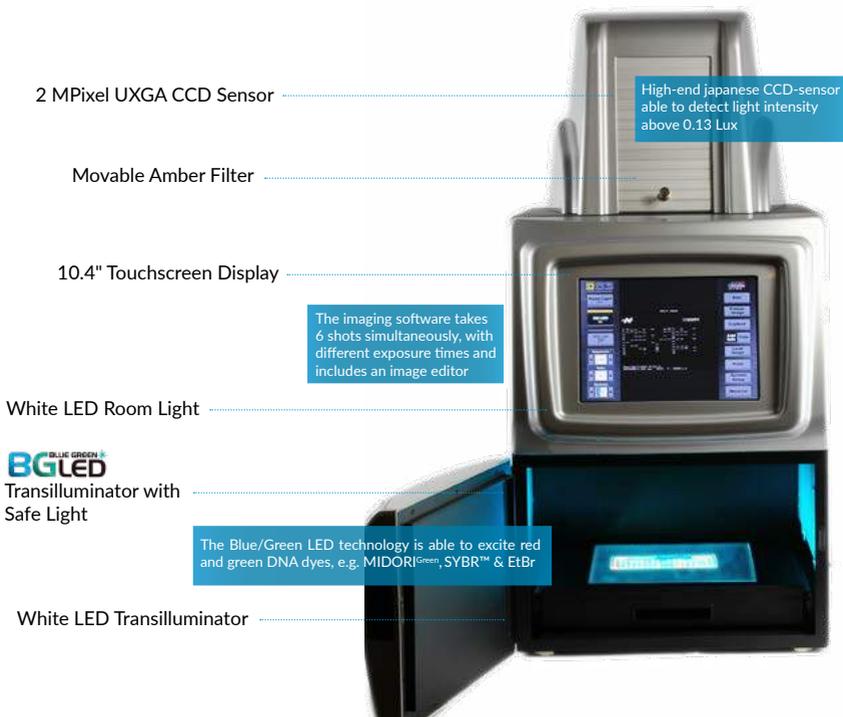


Contact us for ordering or additional information

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# FastGene™ FAS-V Imaging System



## SPECIFICATION

Safe Blue/Green LED light	✓	Spectrum of light with Blue/Green light of 470 nm to 520 nm No risk of damaging DNA or harming your skin and eyes
CCD camera	✓	CCD camera (1600 x 1200 - UXGA)   Exposure time: 0.001 to 30 sec Sensitivity: 0.13 Lux   Aperture: f/1.2   Focal distance: 12.5 - 75 mm   6x zoom
2 White light sources	✓	White LED room light: Documentation of membranes and petri dishes White LED transilluminator: Documentation of protein gels
Huge transilluminator	✓	Illuminated area: 260 x 210 mm   Overall dimensions: 382 mm x 400 mm x 785 mm
Networkable computer	✓	Integrated computer, which can be directly connected to a network
User friendly software	✓	Intuitive imaging software for image acquisition Controlled by a 10.4" touchscreen
Easy image capture	✓	Save images in JPEG, TIFF, PNG or BMP format   Image storage: 16 GB SSD
Integrated power supply	✓	100-240 V~, 50/60 Hz, 2 A

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## Very sensitive camera (CCD technology)

The FastGene® FAS-V has a big CCD-Sensor with a diameter of 1/1.8". The pixel size of 4.4 µm allows the detection of lowest light signal. Images can be recorded in the common TIFF and JPEG as well as in BMP and PNG format. The files can be stored on the 16 GB internal SSD storage or on a USB-stick.

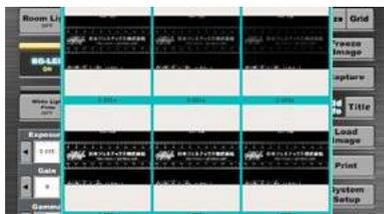
## Very bright parfocal lens - no more focusing

The lens of the FastGene® FAS-V is parfocal, as most microscopic lenses and prefocused on the imaging area, enabling you to zoom in to the area of interest without readjusting the focus. The huge aperture of f/1.2 enables the maximum transmission of light to the sensor. The aperture can be regulated steplessly until complete closure, making it your decision which aperture delivers the best image.

The 6x zoom, with a focal length of 12.5 mm to 75 mm, allows a perfect enlargement of the area of interest. Setting the lens at 12.5 mm allows the imaging of the complete illuminated area, while zooming into 75 mm will eliminate any unnecessary area.



No more focusing with the parfocal lens.



Easy to control imaging software: Activate or deactivate all three light sources. Or change the image capturing settings. With the multiple exposure mode you can capture 6 images simultaneously with different exposure times.

## Touchscreen operation

The FastGene® FAS-V is easily controlled by a gorgeous, colour 10.4" touchscreen display. All three light sources can be activated and deactivated by the touchscreen. Additionally, the exposure time and gain can be easily adjusted.

The FAS-V system will take up to six pictures, simultaneously, using different exposure times. The user can then view and choose which one to use.

A captured image can be edited on site. The image editor starts when an image is loaded from the internal or an external storage. The image can be mirrored horizontally as well as vertically or turned by 90° clockwise or anticlockwise. The contrast of the image can be adjusted and the unimportant parts of the image can be removed using the cropping function.

## White LED transilluminator

The detection of protein bands is performed with the bright white LED transilluminator plate. The white light LED transilluminator has a huge working area of 26 cm x 21 cm, enabling the documentation of very large protein gels or of multiple protein gels at once. The additional white LED room light allows to position of gels and to capture images of membranes and petri dishes.

## Ordering information

Cat. No.	Product	Content
GP-FAS-V	FastGene® FAS-V	Imaging unit with build-in computer, B/G LED slide table, high resolution CCD camera, 2 MPixel, Objective 12.5 - 75 mm, lens hood, amber filter, software, stylus and manual



# Enjoy a FAS-V demo

Finding the right gel doc system can be difficult. We can help you! Just arrange an appointment with us and enjoy a product demonstration of the FAS-V.

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