

## Specifications

### Illumination

Type	300W Xe UV White Light Source
Illumination Wave Length	265 – 680 nm 1 filter position for UV excitation 3 filter positions for visible excitation Free choice of wavelength by filter configuration

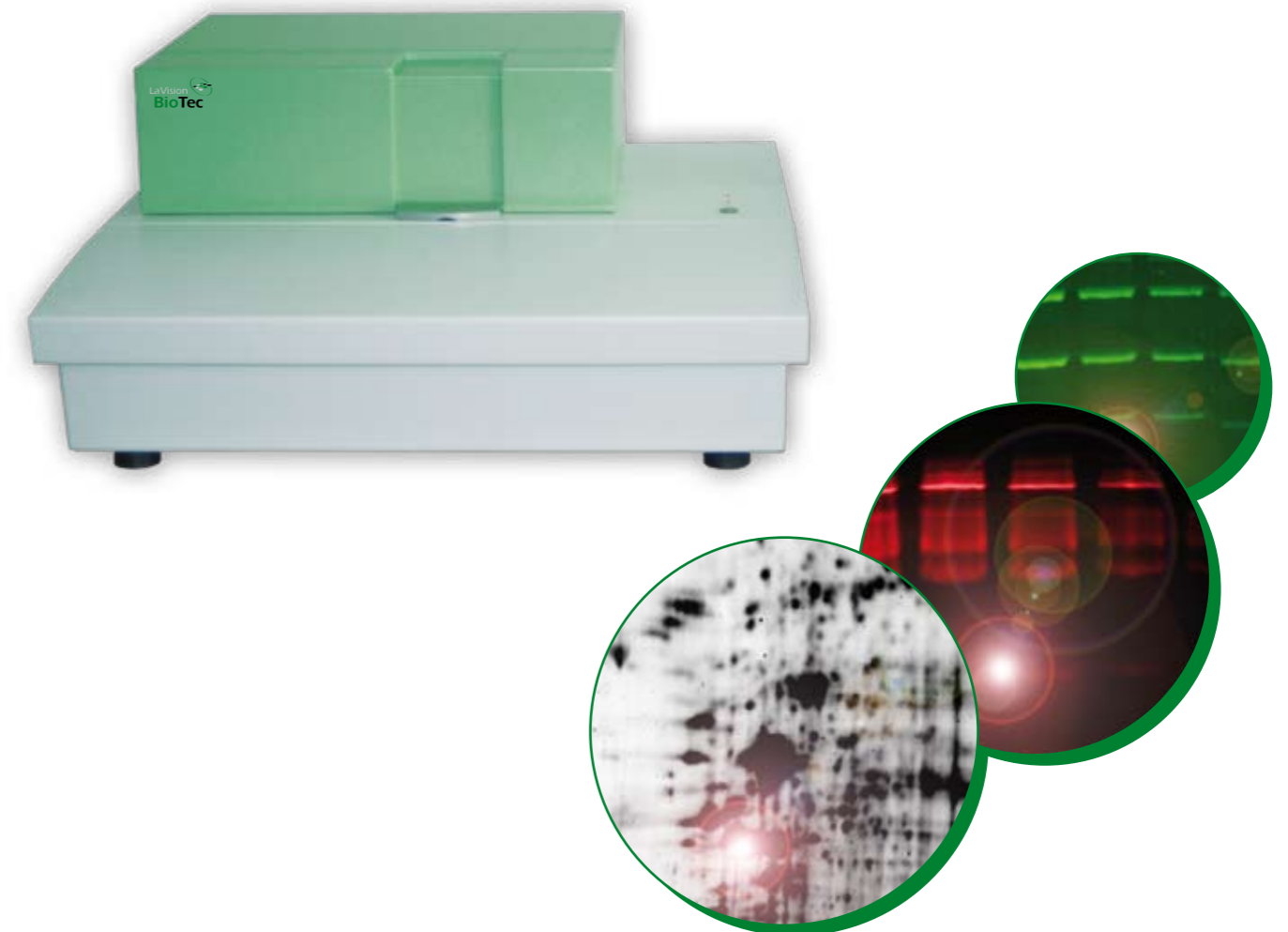
### Detector

Type	Proprietary PMTray
Detection Wavelength	320 nm – 700 nm 1 filter position for UV fluorescence 3 filter positions for visible fluorescence Free choice of wavelength by filter configuration

Spatial resolution	40 µm over whole sample area
Sensitivity	Unstained proteins < 5 ng/spot Stained proteins < 0.1 ng/spot
Dynamic Range	16 bit
Sample Format	Reading area up to 27 x 27 cm <sup>2</sup>
Image Acquisition Speed	< 17.5 min for maximum area (1cm <sup>2</sup> /s) ≈ 1 min Nu Page BisTris Gel (8.5 x 7.5 cm <sup>2</sup> )
Dimensions	77.5 cm (W) x 37 cm (H) x 76.5 cm (D) Weight 65 kg
Computer	Microsoft Windows based PC

# BioAnalyzer Gel

**Proteomic Imaging System for  
Unstained and Stained Gels**



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LaVision   
**BioTec**

# What if you could visualize your protein gels without staining? Working with unmodified proteins! Reduce time and costs for staining to zero!

The BioAnalyzer Gel is the first commercial instrument ever that allows measuring fluorescence intensity of unstained Gels.

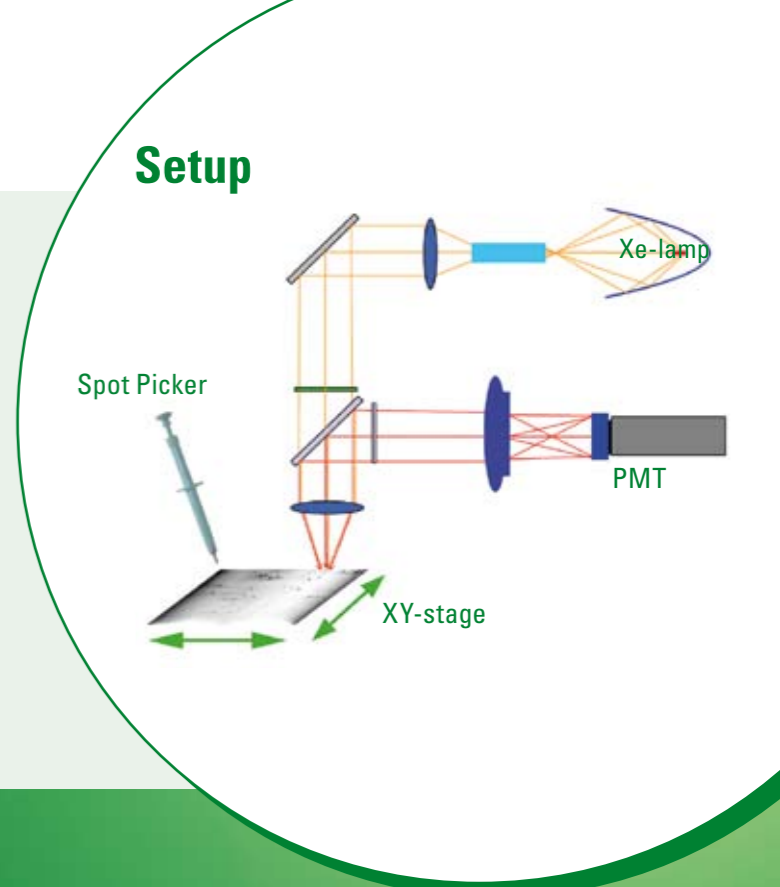
It offers new perspectives, as it excites the native fluorescence of amino acids to visualize the proteins within the gel. Therefore the proteins can be conducted directly to downstream applications like blotting or MALDI.

No staining, no purification steps, no destaining - ensuring an efficient workflow!



## System Components

- Latest generations imaging photo multiplier arrays that provide 16 bit dynamic range and highest sensitivity for definite and pin sharp imaging
- High-precision stage that carries any gel format up to 27x27 cm<sup>2</sup> and delivers an imaging speed of 1 cm<sup>2</sup>/s @ 40 μm special resolution
- Broad band white light excitation source from 265 to 700 nm that enables detection of native fluorescence and of any visible dye like Cy2, Cy3, or Cy5
- Manual spot picking tools for grabbing marked spots
- Removable easy-to-handle gel tray
- Motorized slider for 1 UV filter set, up to 3 VIS filter



# Imaging without staining

## BioAnalyzer Gel features:

- Unique capability for imaging stained and **unstained** protein gels
- Free choice of dyes by choosing the right filter sets
- Accurate spot picking with easy to use and flexible tools
- Possibility to visualize 1D-gels, 2D-gels and DIGE gels

## BioAnalyzer Gel Software

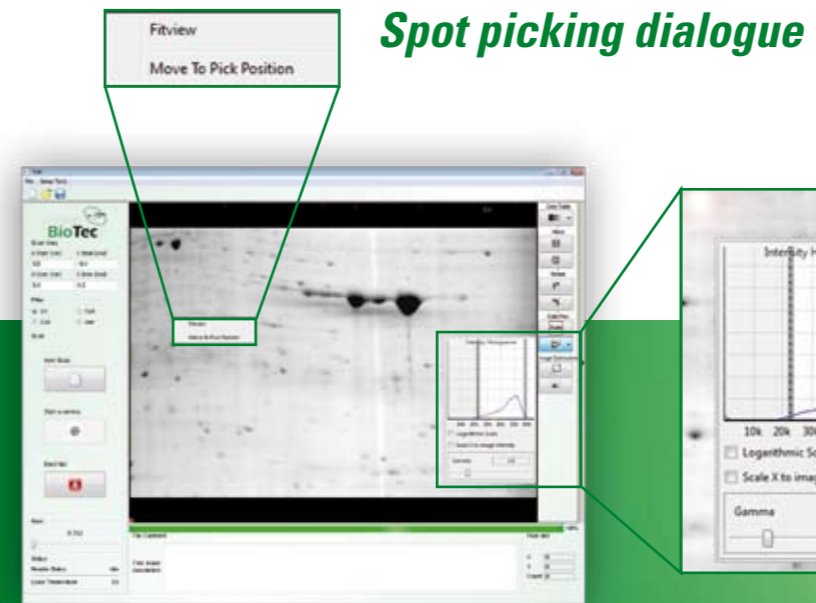
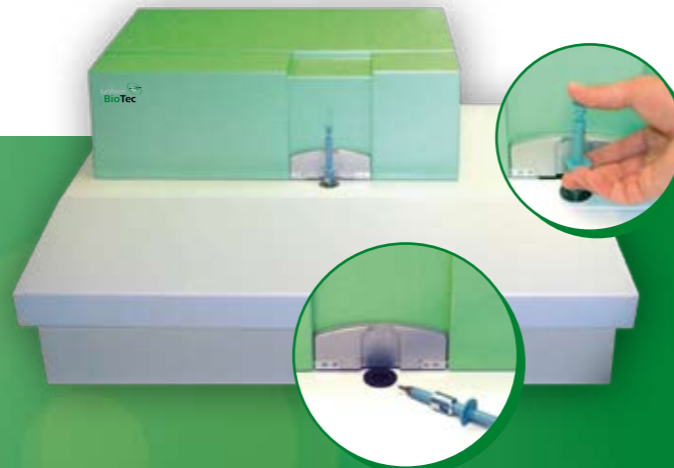
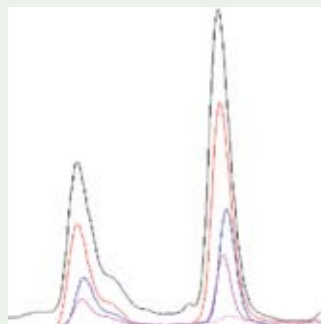
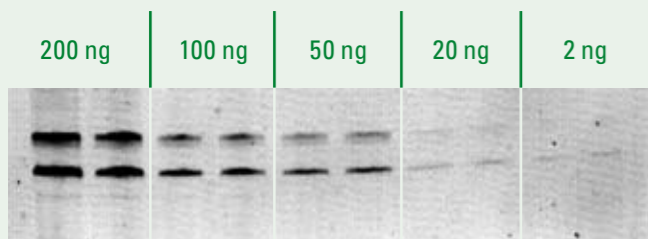
The BioAnalyzer Gel system includes its own software package for data acquisition and spot picking.

Automated image processing algorithms and comfortable sensitivity adaptation make data acquisition fast and easy. Easy to

handle dialogues provide spot picking functionality and a differential multi colour acquisition mode.

Data can be stored to various file formats e.g. TIF, BMP and JPG and consequently proceeded by 3<sup>rd</sup> party data processing software.

Unstained β-Galactosidase  
200 ng – 2 ng, 116,3 kDa



## Sensitivity adaptation

