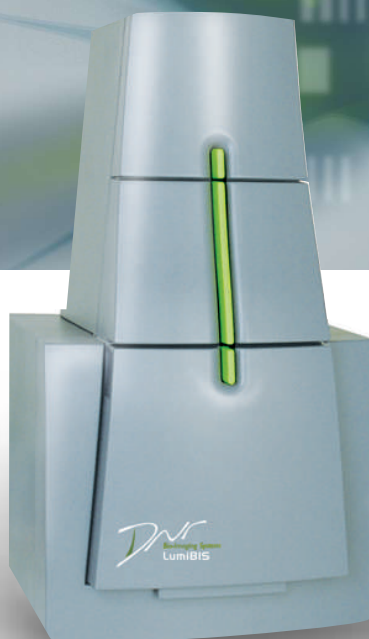


LumiBIS

Quality imaging starts with a quality system

The LumiBIS advantages

- **Advanced resolution:** high quality images with precise sample separation
- **Versatile illumination:** enables diverse fluorescent and colorimetric applications
- **Simplicity:** one-click image capturing
- **Automated lens:** zoom, iris, and focus
- **Real time image viewing and analysis:** easy to use, with rapid results



Answering researchers' demand for a reliable fluorescent and colorimetric gel documentation system, DNR introduces the LumiBIS bio-imaging system.

Combining superior optics with a high quality camera and lighting versatility, the LumiBIS brings you the most accurate results with maximum details – all at the touch of a button.

Great Performance, Great Results

The LumiBIS captures the sharpest possible images with precise sample separation - thanks to its powerful CCD camera with high resolution 1.4/2.0 Mpixels, and 16-bit file format. The high speed zoom lens along with the F/1.2 results in enhanced sensitivity, collecting maximum light from the sample, while maintaining sharp, clear images with minimal geometric and light distortion.

Diverse Applications

The LumiBIS employs DNR's unique Smart Dark Chamber technology with an automated UV protection mechanism and application recognition. The LumiBIS has extensive lighting options allowing researchers to document a wide range of samples. With trans and epi illumination sources, six-position filter wheel and a unique LEDs system, you can use this system for almost any fluorescent or colorimetric application.

Ease-of-Use

Featuring a motorized zoom, iris and focus, the LumiBIS is a fully automated system for user comfort and real-time image capturing. Easy to set-up, with a user-friendly interface, and one-click results, the LumiBIS ensures greater efficiency and productivity in the laboratory.



Bio-Imaging Systems

Advanced Technologies for Breakthrough Results

LumiBIS Specifications

Camera

- Type CCD
- Resolution 1360(H) × 1024(V); 1.4 Mpixels
optional: 1600(H) × 1200(V); 2 Mpixels
- Gradation 16 bit file format
- Dynamic range 3.4 orders of magnitude
- Signal to noise ratio Greater than 55 dB

Optics

- Motorized zoom lens F/1.2, 8-48 mm
- Digital zoom Real time × 9

Illumination and Darkroom

- Dark chamber type Smart Dark Chamber technology with UV protection mechanism
- Emission filters 6-position filter wheel with 3 filters included as a standard
(orange 580 nm, green 550 nm, and red 600 nm)
- Illumination modes Trans-UV, Trans-WL, Epi-WL
Optional: Epi-UV
- Excitation sources White light source
UV source: 312 nm (Optional: 254 nm, 365 nm)
Optional: dual UV source
- Monochromatic LEDs system (optional) 470 nm
500 nm
525 nm
568 nm
588 nm
621 nm

Software

- Image capture GelCapture, free lifetime upgrade
- ID image analysis DNR's GelQuant or Nonlinear Dynamics' TL-100, TL-120, or TL-120 DM

System Requirements

- PC Pentium IV, 256 MB RAM, 2.4 GHz
- Operating system WIN XP Pro
- Interface FireWire
- Dimensions (WxDxH) 47 cm × 48 cm × 88 cm
- Power 100 - 230 VAC / 50-60 Hz

Optional Accessories

- Thermal and dye sublimation printers
- Wide range of LEDs
- Wide range of filters

Applications

- Detection and quantitation of nucleic acid, and protein stains and labels including: Ethidium Bromide, GelStar™, Fluorescein™, Coomassie Brilliant Blue, SYPRO™ Orange, SYPRO™ Red, Silver Stain, SYPRO™ Ruby, Deep Purple™, and more.
- Detection and quantitation of nucleic acid and protein stains and labels with LEDs system including: SYBR™ Green, Pro Q™ Diamond, Ds-Red, EYFP, Alexa Fluor 594, and more.
- Other Biological Methods: Spot and slot blots, autoradiographs, microplates, macroarrays, membranes, petri dishes, TLC plates and more.