

# GDS-3150PRO

## CCD GEL DOCUMENTATION SYSTEM



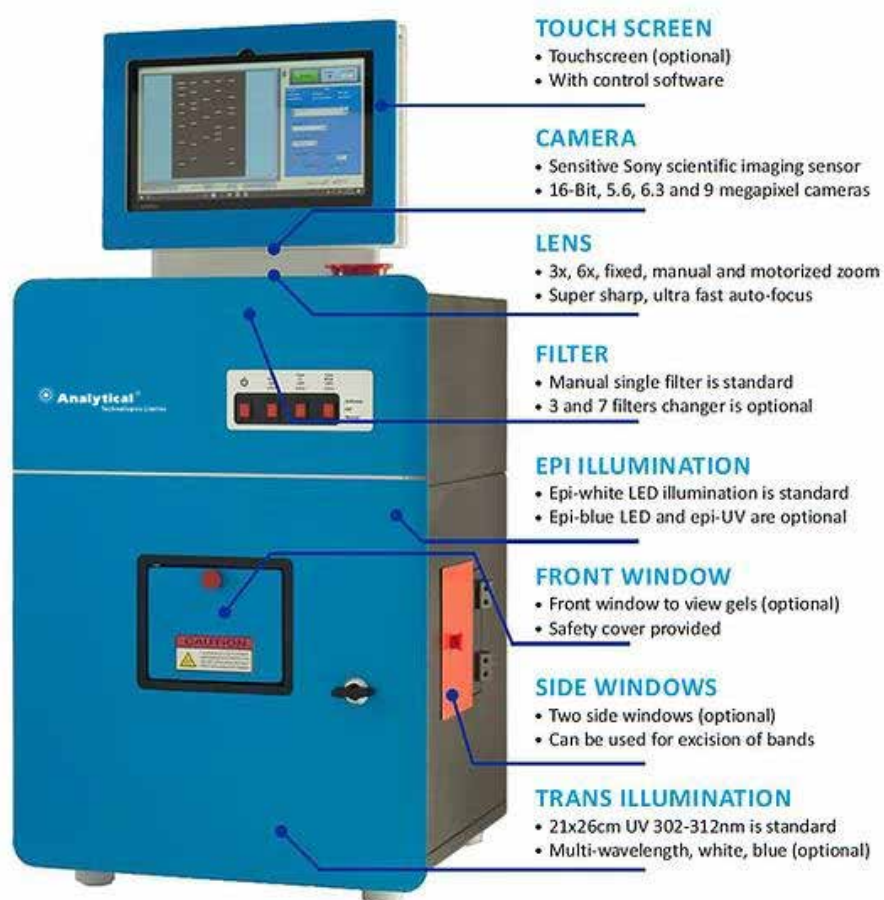
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## ►► Features



- Sharp zoom lens coupled to a highly sensitive cameras, the CCD gel documentation system, is a high quality, yet low cost professional gel and bio-imaging system. From agarose, PAGE, western blots, dot blots, nucleic acid, colorimetric to fluorescent imaging and upgradeable to chemiluminescence; this gel system has all the options. Standard system comes with manual as well as software controls for programmable operation of lighting systems, lens, camera and automated image analysis.

## ►► Camera

Featuring high resolution extremely sensitive 16-bit (for 65536 gray levels) Sony scientific grade CCD camera (with choice of 2.8, 6.0 or 12.0 megapixel cameras) or a 12-bit (for 4096 gray levels) Sony scientific grade CMOS camera (with a choice of 6.3 or 20 megapixel cameras) with extremely low noise and dynamic flat field calibration coupled to a C-mount motorized zoom lens (with option for numerical feedback value) that is pre-focused for different zooms or sample setting, mounted inside an enclosure that covers and protects the camera and lens. The camera, lens & cabinet connects to & can be controlled from the PC or touch-screen using live-view acquisition capture software.

## ►► **Darkroom Cabinet**

- The epoxy coated, chemical & corrosion resistant light-tight cabinet has filter holder (1, 3 or 7 filter holder), a UV safety switch and a roll-out transilluminator. The safety switch switches off UV lights as soon as the door is opened. Options for front viewing window with two side windows on the cabinet for excision of bands are also available.

## ►► **Illumination**

- Standard lighting systems are UV transillumination in 302-312nm\* and Epi-white light
- Trans illumination area options are 20x20cm for smaller gels and 21x26cm for larger gels
- Special size filter to view extra large gels up to a maximum of 26x26cm also available
- Sample size area is 38x30cm
- We also offer UV transillumination in dual wavelength (312+365nm being most common)
- For rare applications UV transillumination in triple wavelength (254+312+365nm) can also be given
- Multi broad band wavelengths can also be offered 254nm, 312nm and 365nm UV trans lights
- Intensity control for low and high trans-illumination - low for preparative work and high for quantitative
- Trans white light tables are optional to use gel doc for protein gels documentation
- Excitation wavelengths are UV, white, blue, RGB etc
- For special stains, blue light tables can also be given
- Multi-wavelength epi-illumination LEDs are also available for Red, Green, Blue lights for special stains
- UV blocking polymer filter is also provided to block harmful UV wavelength
- Cabinet uses microprocessor based control system to control camera, lens and lighting of the cabinet
- Stain-free system are also available (with 30 sec, 2.5 min, 5 min and user-defined UV-on timer)

## ▶▶ **Transillumination**

- Choice of illumination options with UV trans/epi lighting, wavelength-specific LEDs and more, add to the versatility of the system. UV roll-out transilluminator can be provided in dual 302-312nm and 365nm (additionally 254nm, for triple wavelength configuration), and even Red, Green, Blue LED ranges. Large filter size of transilluminator for gel images up to 26x26cm, with extra large special filter size of up to 26x38cm is also available. Colorimetric samples up to 38x30cm can be captured. Standard Trans White light and Trans Blue light tables up to 25x25 cm.

## ▶▶ **Epillumination**

- Epi-white light illumination through dual LED tubes from above is standard. Ultraviolet epi-illumination in a variety of wavelengths can also be provided. For specific stains, epi-light in blue, green or red LEDs can be provided. A combination of all these illumination modes in the same system can be provided.

## ▶▶ **Filter Holder**

- Standard is manual 3-position filter holder
- Advanced models with 3, 4 and 7-position manual and motorized filter holder are also available
- Orange 590 EtBr and clear are standard

## ▶▶ **Filters**

- Orange 590: Ethidium Bromide (EtBr), SYPRO Ruby, ProQ Diamond, Deep Purple, etc
- Green 520: SYBR Green I, Green II, SYBR Gold, GFP, Fluorescein, FITC
- Orange 560: SYBR Safe, Rhodamine, Cy3, etc
- Red 630: SYPRO Red, Texas Red, etc
- Blue 480: Hoechst, Coumarin, etc
- Clear: Coomassie Blue, Silver etc

## ▶▶ How the Gel Documentation & Imaging Analysis System works

- A transilluminator is mounted on roll-out rails inside a light-tight cabinet. To place the gel, the door is opened and transilluminator pulled out. Push it in, close the door and switch on the UV light and camera. The camera is mounted on top of the cabinet along with zoom lens and wavelength filter (nominally 590nm filter suitable for Ethidium Bromide EtBr gels is provided).

Connect the camera to the PC using the USB cable and gel capture software, to get a real-time live view image of the gel. Adjust camera settings (like shutter speed, aperture, focus) till the optimum image is obtained. Click your images and save them on the PC. A white light epi-illuminations source is also provided, that illuminates objects from top.

With the optional 1D gel analysis software, you can analyse the gels.

## ▶▶ Package Includes

- Dark room cabinet with safety switch with low footprint
- Roll out variable intensity 312nm transilluminator
- Epi-white light illumination
- CCD camera
- Gel capture software
- 590nm orange filter, suitable for EtBr stained gels
- Power cords, USB cable, instruction manual, warranty card
- Options that can be ordered like motorized filter holder, special zoom lens, illumination etc
- 1 year standard warranty against manufacturing defects

## ▶▶ Tech Specs of Cameras

Resolution	Sensor	Sensor Size	Pixel Size	Exposure	Brand
6.3 MP	Starvis	1/1.8"	2.4x2.4 um	1ms to 1000s	Sony
20 MP	Pregius	1"	2.4x2.4 um	1ms to 60s	Sony
2.8 MP	CCD	2/3"	4.54x4.54 um	1ms to 1000s	Sony
6.0 MP	CCD	1"	4.54x4.54 um	1ms to 1000s	Sony

Price	60,00,000 INR
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