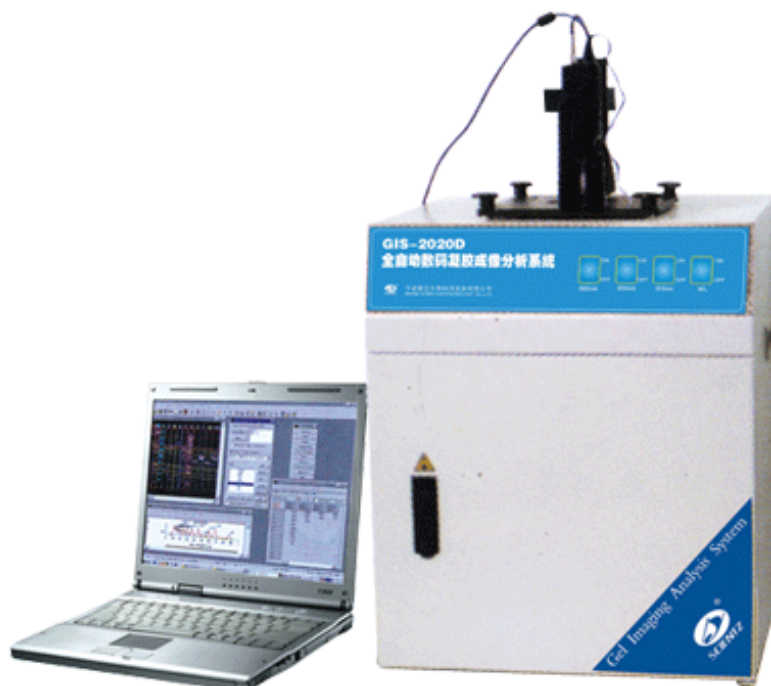


# GIS-2020D Full Automatic Digital Gel Imaging Analysis System



CCD	Solution digital CCD ( No need to take catching card ) Level resolution : resolution)1280 ( H ) × 1024 ( V ) ( Sino-American joint venture)
Automatic	6six fold optical focus changing)8-48mm ; aperture F1.2-16 Automatic adjustable lens ( Japan )
Focus changing head	
Filtering glass	UV/IR Gel only for multi-level layer, Interfering filtering glass 590nm
Dark box	UV penetration,reflective lamphouse, UV wavelength 312mm, white light penetration, reflective lamphouse(UV, Specturm of UV312mm
Refelect UV UV penetrating area	200 × 200 spectrum : 312nm 、 302nm
Software	Imported analysis software(USA)

## GIS-2020D Full Automatic Digital Gel Imaging Analysis System

- System management: This system supports windows 98/2000, stores various types of pictures and provides photos printing.
- Pictures handling: Including negative pictures, rotating pictures, contrast of pictures ,adjust of brightness and automatic optimization of pictures.
- Agarose gel analysis: Intelligently automatically identify the lanes: Act upon sophisticated automatic calculating method, this system can help users automatically identify lanes /stripes and number them. Additionally, it can add or remove lanes/stripes, move or adjust lanes according to users' requirements.
- Density contrast: Adjust the light density of the lanes under the measuring range slightly. And it could compare a number of lanes.
- Calculating of the molecular weight, light density and moving velocity : Through the easy-operation direction tool, users can standardize the molecular weight or light density of stripes in standard lanes, and then users can automatically calculate molecular weight or light density of every stripe according to the standardization. With the moving velocity direction tool, users can automatically calculate the moving velocity of every stripe according to the specified baseline and forepart line.
- Output of the analysis: with the non-sewing data connection technique, the analysis of molecular weight, light density and moving velocity can be outputted into Word or Excel.
- Undo or redo: users can undo or redo the previous operation unlimitedly so as to make less regrettable of the operation.
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- Annotation Function: Many annotation tools provided, such as rectangle, hollow rectangle, oval, hollow oval, straight line, various types of arrows, inserted pictures and ratio of enlarging or shrinking of the pictures.
- Light density adjust: Functions including background removing, automatic adjust or manual adjust.
- Automatically user program storing: Every operation procedure can be traced and stored by users. So later a click of mouse can finish the present operation.
- Pictures database management: Related data and pictures are provided. Users can find the photos, print or send pictures as soon as possible.
- Lanes analysis: Automatically identify many lanes/stripes, and functions including scanning curves, adjusting stripes and distorting the forepart curves, etc.
- Quantitative analysis: Nucleotide and protein quantitative analysis. Molecular weight, quantity of stripes RF value, and percentage could be calculated easily.
- Dot Blot analysis: Functions including calculating the density of every single dot and obtain statistics for the circle or rectangle slot blots.

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- Bacteria colony counting: The spot could be counted automatically or manually. Then the user chooses measuring parameters, so as to automatically catalog the statistical results according to the user's standards.
- Area, density calculating: The user could calculate density or mean density of every selected area.
- Data sharing: All analysis can be dynamically connected to Microsoft Excel for further analysis
- Forming experiment report: The system provides report auto-forming machine that can form professional official document or researching report.