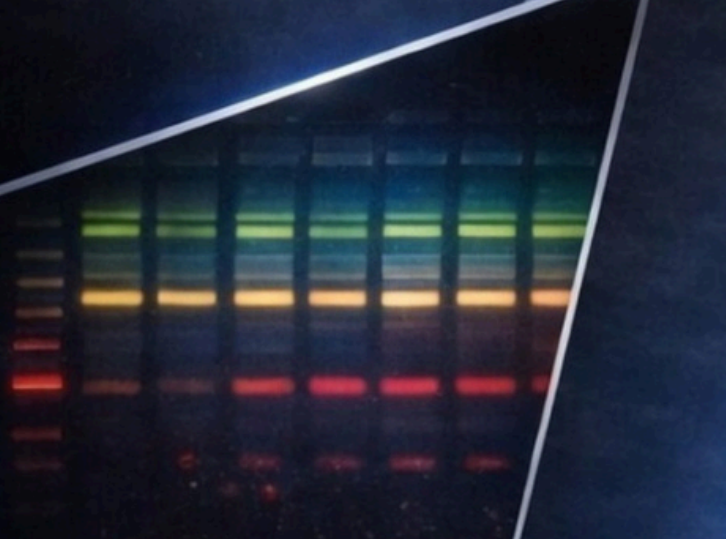
iGENE LABSERVE®

Innovative · Interactive · Intuitive

One Platform. Complete Molecular Imaging.

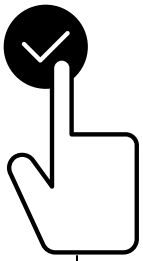
From Routine Gel Documentation to Advanced Chemiluminescence



Gel | Chemiluminescence | Fluorescence

NSF · CE CERTIFIED PRODUCTS · GeM Government e Marketplace · ISO 9001:2015 COMPANY · MSME MICRO, SMALL & MEDIUM ENTERPRISES · एन एस आई सी NSIC ISO 9001 : 2008 · STARTUP INDIA · ISO 14644-1:2015

Selection guide to choose right Documentation System for your lab



Step 1: What is your primary application?

- DNA / RNA gel imaging
- Protein gel documentation
- Western blot imaging
- Multi-fluorescence imaging

Step 2: What type of detection do you require?

- UV gel visualization (EtBr / SYBR dyes) → Go to Step 3
- Chemiluminescence detection (ECL Western Blot) → Go to Step 4
- Fluorescence detection (GFP, RFP, Cy dyes) → Go for **IG-16CIS**

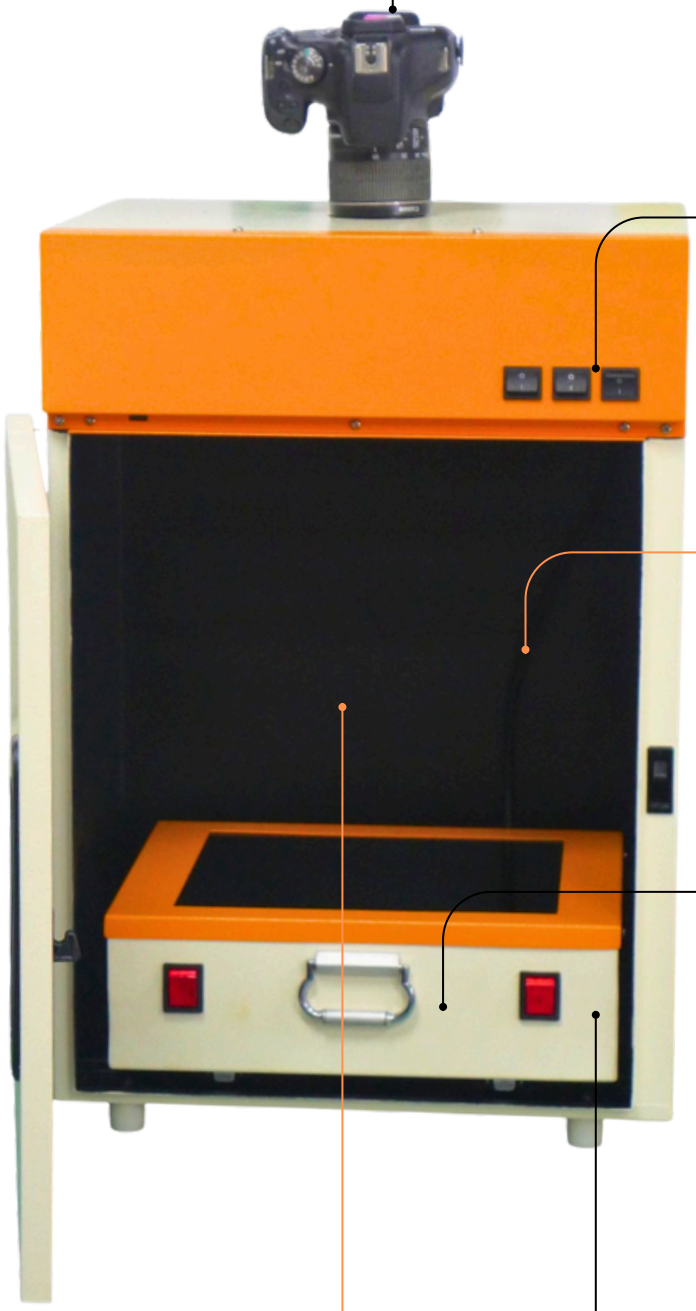
Step 3: What level of automation do you prefer?

- Basic gel documentation for routine lab work → Go for **IG-218GD**
- Advanced gel documentation with touchscreen control & analysis software → Go for **IG-618GD Touch**

Step 4: What sensitivity level do you require?

- High sensitivity chemiluminescence imaging for Western blot detection → Go for **IG-14CIS**
- Chemiluminescence imaging + gel documentation in a single system → Go for **IG-15CIS**
- Chemiluminescence + gel documentation + fluorescence imaging → Go for **IG-16CIS**

Gel Documentation System (IG-218GD)



High-Resolution DSLR Camera

- Sharp and detailed gel imaging
- High-resolution CMOS sensor for clear visualization of DNA/RNA bands
- High sensitivity imaging for detecting faint bands with better contrast
- Ensures reliable and reproducible gel documentation for laboratory analysis

MS Powder-Coated Construction

- Constructed with mild steel (MS) body for strong and durable performance
- Powder-coated finish provides protection against corrosion and wear
- Ensures long-lasting stability in demanding laboratory environments

Spacious Imaging Chamber

- Large imaging chamber to accommodate different gel sizes and formats
- Provides comfortable working space for easy gel placement and handling
- Ensures stable positioning of gels for accurate imaging and documentation

Sliding Platform for Easy Gel Handling

- Smooth drawer-type sliding platform for convenient gel placement and removal
- Allows quick and safe positioning of gels inside the imaging chamber
- Improves workflow efficiency during routine gel documentation

Built-in UV safety lock

Toughened UV lamp for consistent illumination

302 nm UV Transilluminator

- Provides 302 nm UV illumination for effective visualization of DNA/RNA gels stained with dyes such as EtBr and SYBR.
- Ensures uniform light distribution across the gel surface for clear and consistent band detection.
- Designed for reliable gel imaging and documentation in routine molecular biology applications.
- Integrated within the system for stable and safe operation during imaging.

Fully Sealed Dark Box

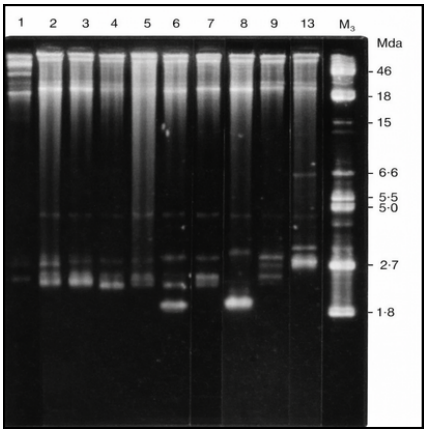
- Fully sealed darkroom chamber prevents external light interference during imaging
- Ensures high-contrast and accurate gel image capture

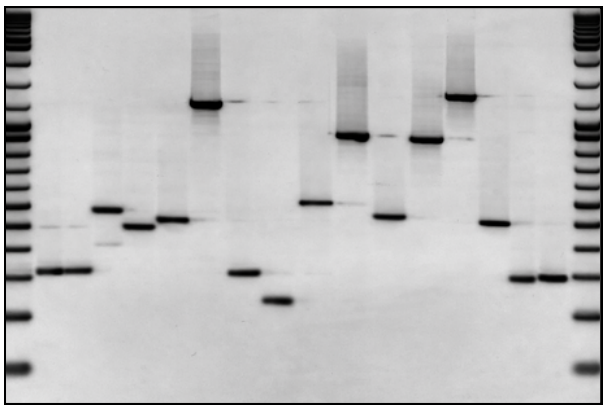
Gel Documentation System IG-218GD Technical Specifications

Specifications		Parameters
Chamber Size		400 x 310 x 550 mm
Material of Construction		MS Powder Coated
Epilight		Epi-fluorescent Light
Camera System	**Type**	High-Resolution Digital Single Lens Reflex (DSLR) Camera
	Resolution	18 – 24 Megapixels
	Effective Pixels	Up to ~6000 × 4000 pixels
	Image Capture	High-definition still image capture for precise band visualization
	Lens Type	Interchangeable DSLR lens (typically macro lens for gel imaging)
	Shutter Speed	1/8000 sec to 30 sec exposure range
	Focus System	Auto / Manual Focus Capability
	Image Processing	Low noise image processing for clear gel band detection
	Dynamic Range	High dynamic range for enhanced contrast and detail
	Power Supply	External power operation (battery-independent configuration)
	Power Mode	Continuous power supplied through external adapter / system integration
1D Gel Capture software	**Real time image capture**	Capture gel images directly from the camera with live preview for proper positioning
	Auto exposure control	Automatically adjusts exposure settings to obtain clear and optimized gel images
	Manual Image Adjustment	Allows adjustment of brightness, contrast, gain, and focus for improved visualization
	Image Editing Tools	Includes crop, rotate, zoom, and color adjustment functions
	Image Storage	Saves captured images in multiple formats such as TIFF, JPEG, and BMP
	Image Management	Enables easy storage, retrieval, and archiving of gel images for later analysis

Gel Documentation System IG-218GD Technical Specifications

Specifications		Parameters
Gel Analyzer Software (1D Analysis)	**Automatic Lane Detection**	Automatically identifies gel lanes for quick analysis
	Manual Lane Editing	Users can manually adjust lane positions if required
	Automatic Band Detection	Detects bands within each lane using peak identification algorithms
	Band Quantification	Measures band intensity and calculate optical density for quantitative analysis
	Lane Profile Analysis	Generates densitometry curves showing peak intensity of bands
	Molecular Weight Determination	Calculates molecular weight using DNA or protein ladder standards
	Rf Value Calculation	Determines relative mobility (Rf value) of bands
	Background Subtraction	Removes background noise for more accurate quantification
	Image Processing Tools	Includes brightness adjustment, inversion, filtering, and contrast enhancement
	Data Export	Exports analysis results and images to formats such as Excel, PDF, and image files
	Report Generation	Automatically generates analysis reports with annotated gel images and band data
UV filter size		200 x 250 mm
UV Wavelength		302 nm
Power Supply		220V, 50Hz
Connectivity		USB interface for PC connectivity





Gel Documentation System (IG-618GD Touch)

High-Resolution Imaging System Camera

- Equipped with a 6.3-megapixel CMOS camera for high-resolution gel imaging
- Captures sharp and detailed images of DNA, RNA, and protein bands
- Provides high sensitivity and low noise imaging for accurate gel documentation

10.4-Inch Windows OS Display

- Integrated 10.4-inch touchscreen display for easy system control
- Runs on Windows operating system for smooth and intuitive operation
- Enables direct image capture, viewing, and analysis without an external computer

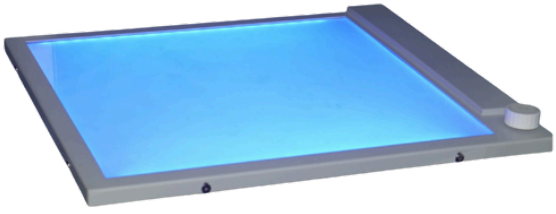
USB 3.0 Connectivity

Fully Sealed Dark Box with Auto UV Shut-Off

- Fully sealed darkroom chamber prevents external light interference during imaging
- Ensures high-contrast and accurate gel image capture
- Automatic UV shut off activates when the door is opened for enhanced user safety

250 × 250 mm Field of View

- Large 250 × 250 mm imaging area for capturing full-size gels in a single image
- Supports various gel sizes and formats for flexible laboratory use
- Ensures clear and uniform imaging across the entire gel surface



UV Gel Cutting Mode: Using Amber Protective Sheet

Multipurpose blue and white light plate

- Provides blue and white light illumination for versatile gel visualization
- Suitable for SYBR, safe dyes, and visible stained gels
- Enables flexible imaging for different gel applications in a single platform

Gel Documentation System IG-618GD Touch
Technical Specifications

Parameter	Specifications	
Model No.		IG-618GD Touch
Dimensions		400 × 371 × 700 mm
Camera System	**Sensor Type**	6.3 MP CMOS (Complementary Metal-Oxide Semiconductor) Image Sensor
	Resolution	3072 × 2048
	Pixel Size	2.4 × 2.4 µm
	Pixel Density	16-bit
	Exposure Time	17 µs – 15 s
	Image Format	JPEG, PNG, TIFF, RAW
	Dynamic Range	60–75 dB
	Sensitivity	High sensitivity with low noise imaging
	Signal-to-Noise Ratio (SNR)	≥ 40 dB
	Exposure Control	Automatic and Manual Exposure
	Frame Rate	Up to 30–60 fps depending on resolution
	Power Requirement	External power supply (battery-less operation when integrated in instruments)
	Operating Temperature	10 - 45 °C
	Image Processing	Built-in image enhancement, noise reduction, and contrast optimization
Field of View / Shooting Area		250 × 250 mm
Light Source		LED Brightfield + UV 302 nm
Display / OS		10.4” Windows OS Touch Display
Interfaces		USB 3.0 × 2
Power Supply / Voltage		100 – 240 V
Power Consumption		200 W
Net Weight		27 kg
Safety		Auto UV Shut-Off
Gel Cutting		Supported

Gel Documentation System IG-618GD Touch
Technical Specifications

Parameter	Specifications	
1D Gel Capture software	**Real time image capture**	Capture gel images directly from the camera with live preview for proper positioning
	Auto exposure control	Automatically adjusts exposure settings to obtain clear and optimized gel images
	Manual Image Adjustment	Allows adjustment of brightness, contrast, gain, and focus for improved visualization
	Image Editing Tools	Includes crop, rotate, zoom, and color adjustment functions
	Image Storage	Saves captured images in multiple formats such as TIFF, JPEG, and BMP
	Image Management	Enables easy storage, retrieval, and archiving of gel images for later analysis
Gel Analyzer Software (1D Analysis)	**Automatic Lane Detection**	Automatically identifies gel lanes for quick analysis
	Manual Lane Editing	Users can manually adjust lane positions if required
	Automatic Band Detection	Detects bands within each lane using peak identification algorithms
	Band Quantification	Measures band intensity and calculate optical density for quantitative analysis
	Lane Profile Analysis	Generates densitometry curves showing peak intensity of bands
	Molecular Weight Determination	Calculates molecular weight using DNA or protein ladder standards
	Rf Value Calculation	Determines relative mobility (Rf value) of bands
	Background Subtraction	Removes background noise for more accurate quantification
	Image Processing Tools	Includes brightness adjustment, inversion, filtering, and contrast enhancement
	Data Export	Exports analysis results and images to formats such as Excel, PDF, and image files
	Report Generation	Automatically generates analysis reports with annotated gel images and band data

Chemiluminescence Imaging System (IG-14CIS)

Dual Camera Imaging System

Equipped with a two-camera setup—one dedicated for precise marker detection and the other optimized for accurate sample imaging—ensuring enhanced clarity and reliable results.

10.4-Inch Windows OS Display

- Integrated 10.4-inch touchscreen display for easy system control
- Runs on Windows operating system for smooth and intuitive operation
- Enables direct image capture, viewing, and analysis without an external computer

USB 3.0 Connectivity

- Equipped with 2 × USB 3.0 ports for high-speed data transfer
- Allows easy export of images and experiment data to external devices
- Enables connection with USB drives, keyboards, or other peripherals

Ultra-Low Noise Cooling (Ambient –40°C)

- Advanced Peltier-based cooling system reduces camera noise for clearer images.
- Achieves cooling up to 40°C below ambient temperature.
- Enhances signal detection and sensitivity, especially for weak samples.

White LED Illumination

- Provides uniform white LED lighting for clear gel visualization.
- Suitable for brightfield imaging and stained gels.
- Ensures stable illumination with long LED lifespan.

Auto Exposure & Multiple Imaging Modes

- Automatic exposure adjustment ensures optimal image brightness and clarity.
- Supports multiple imaging modes for different gel types and applications.
- Enables quick and convenient image capture with minimal manual settings.

Chemiluminescence Imaging System (IG-14CIS)

Technical Specifications

Parameter		Specification
Model No.		IG-14CIS
Dimensions		400 x 371 x 700 mm
Camera	Pixel Resolution	9 million pixels
	Resolution	2992 X 3000
	Pixel size	3.76 x 3.76 µm
	Target size	1 " (11.28 x 11.28 mm)
	Full well capacity	16.5ke-(HCG), 50.5ke-(LCG)
	Sensitivity	877 mV @ 1/30s
	Readout noise	1.24e-(HCG), 3.22e-(LCG)
	Dark current	0.0003e-/s/pixel @-15°C
	Signal to noise ratio	42.2dB (HCG), 47dB (LCG)
	Exposure time	0.1ms-1h
	Binning mode	1 x 1, 2 x 2, 3 x 3
	Grayscale	16-bit (65536 levels)
	Cooling	Relative to ambient temperature -40°C
	Camera type	Black and white camera
Lens	Aperture	F0.95-F16
	Focal length	17 mm
	Type	Motorized lens
Light Source	Downward facing LED white light source, symmetrically distributed on both sides	
Field of view	140 x 140mm	
Industrial computer	• 10.4" display (1024 x 768) • Windows 10 OS	
External interfaces	USB 3.0 x 2	
Operating voltage	90~132VAC/180~264VAC (selectable via switch), 47~63Hz	

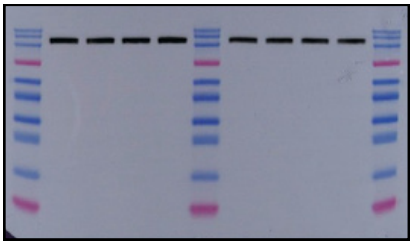
Chemiluminescence Imaging System (IG-14CIS)
Technical Specifications

Parameter	Specifications	
Software functions	Exposure modes	• High quality: Highest quality image • Standard: Balances image quality & exposure speed • High sensitivity: Fastest exposure speed
	Time imaging	After exposure is complete, each frame image within the exposure time can be generated. Through precise retrospective adjustments, users can choose any frame image within that exposure time as the final output.
Product power	≤300W	
Product net weight	30.65 kg	

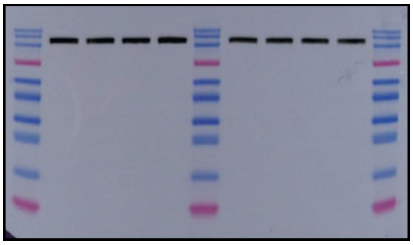
IG-14CIS Trouble Shooting

After some time, if the existing imaging results appear unsatisfactory, there is no need to repeat the experiment. The band intensity can be adjusted, and the results can be re-exported at any time using the analysis software

Auto exposure: 18s

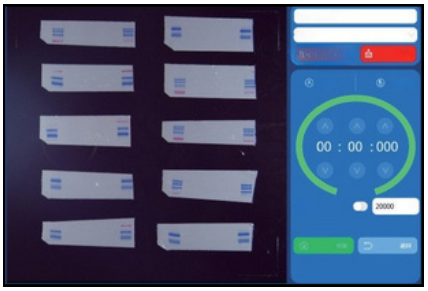


Exposure adjusted to 9s

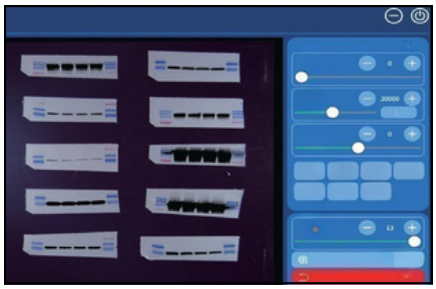


Exposure adjusted to 15s (final results)

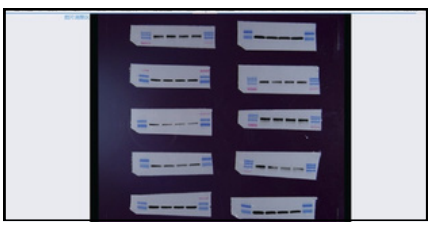
Traditional imagers process membranes one at a time, keeping the machine occupied for long periods while other membranes may lose signal during the waiting time. The IG-14CIS allows capture of 10+ membranes simultaneously with long exposure, after which the results can be fine-tuned in the analysis software—saving time and maximizing imager efficiency.



Multi imaging membrane

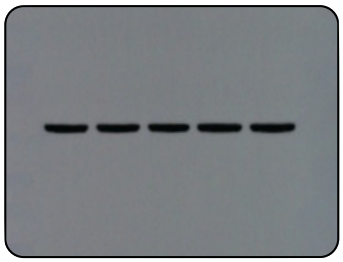


Manual long exposure

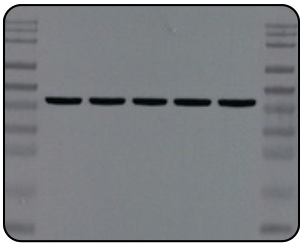


Adjust for optimal results

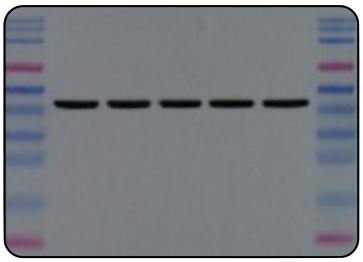
Color pre-stained protein markers often appear black and white after exposure, making band identification and counting difficult. The IG-14CIS dual-camera system solves this by using a color camera to capture true-color markers for easy size identification, while a mono camera ensures clear, high-sensitivity band detection.



Band exposure imaging



Post imaging blot (Black)

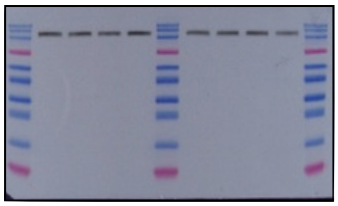


Post imaging blot (Colour)

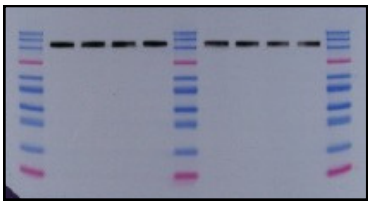
After WB exposure, if the band signal intensity is unsatisfactory and repeating the experiment seems laborious and time-consuming, the IG-14CIS provides a simple solution.

Weak bands? Extend imaging time

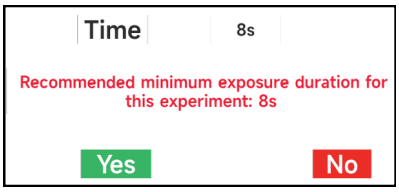
Strong bands? Rewind to any exposure point



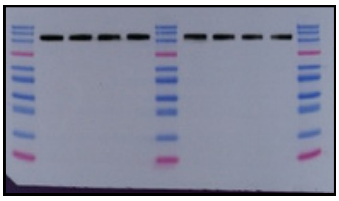
Timeline adjusted to 14s result



20s auto exposure results

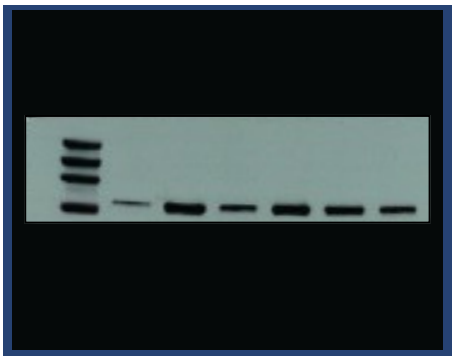


+8s extended exposure



28s total exposure result

In Western blotting, non-specific binding of pre-stained markers and over- or under-exposed luminescent signals can obscure target bands and compromise accurate molecular weight analysis. IG-14CIS eliminates non-specific marker interference and optimizes luminescent signal exposure, ensuring clear target bands and precise molecular weight determination.



Chemiluminescence Imaging System (IG-15CIS)

Deep-Cooled High-Sensitivity Camera System

- 9 MP high-resolution camera with resolution (2992 × 3000) for detailed imaging.
- Deep-cooled camera technology minimizes background noise during detection.
- Cooling up to −40°C below ambient temperature for improved sensitivity and clearer chemiluminescent signal capture.

Integrated 10.4” Windows 10 Industrial PC

- Built-in 10.4” touch display with Windows 10 operating system.
- Enables direct control, image capture, and analysis without external computer.
- Industrial-grade system ensures stable performance and reliable operation.

White LED + UV 302 nm Illumination

- Integrated white LED illumination for brightfield gel imaging.
- UV 302 nm light source for visualization of nucleic acid-stained gels.
- Provides stable and uniform illumination for clear and reliable imaging results.

Multiple Imaging Modes

- Supports real-time imaging for instant visualization of samples.
- Time-accumulation mode enhances detection of weak chemiluminescent signals.
- Auto-exposure mode automatically adjusts exposure for clear and optimal images.

Nucleic Acid Gel Cutting Support

- Designed to facilitate safe and precise gel cutting during experiments.
- Enables easy extraction of DNA/RNA bands from agarose gels.
- Supports convenient sample recovery for downstream applications.

USB 3.0 × 2 Connectivity

- Equipped with two USB 3.0 ports for high-speed data transfer.
- Allows easy connection of external storage devices such as USB drives.
- Enables quick image export and data backup.

Dual-Voltage Compatibility

- Supports 100–240 V AC input, suitable for different power standards.
- Ensures stable operation across various laboratory environments.
- Eliminates the need for an external voltage converter.

Chemiluminescence Imaging System (IG-15CIS)
Technical Specifications

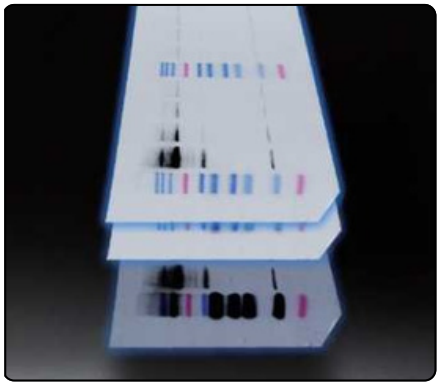
Parameter		Specification
Model No.		IG-15CIS
Dimensions		400 x 371 x 700 mm
Camera	Pixel Resolution	9 million pixels
	Resolution	2992 X 3000
	Pixel size	3.76 x 3.76 μm
	Target size	1 " (11.28 x 11.28 mm)
	Full well capacity	16.5ke-(HCG), 50.5ke-(LCG)
	Sensitivity	877 mV @ 1/30s
	Readout noise	1.24e-(HCG), 3.22e-(LCG)
	Dark current	0.0003e-/s/pixel @-15°C
	Signal to noise ratio	42.2dB (HCG), 47dB (LCG)
	Exposure time	0.1ms-1h
	Binning mode	1 x 1, 2 x 2, 3 x 3
	Grayscale	16-bit (65536 levels)
	Cooling	Relative to ambient temperature -40°C
	Camera type	Black and white camera
Lens	Aperture	F0.95~F16
	Focal length	17 mm
	Type	Motorized lens
Light Source	Bright field light source	Downward facing LED white light source, symmetrically distributed on both sides
	UV light source	• 302nm LED array with uniform transmitted illumination • 254nm/365nm LED UV light sources (symmetrically distributed on both sides)
	Dual blue/white light sources	Optional accessories: Blue/white transmitted light switching, each featuring 3-stage power cycling adjustment
Industrial computer	10.4" display (1024 x 768), Windows OS, 16GB RAM, 512GB SSD, Integrated Bluetooth/Wi-Fi	
External Interfaces	USB 3.0 x 2	
Operating voltage	90~132VAC/180~264VAC (selectable via switch), 47~63Hz	

Chemiluminescence Imaging System (IG-15CIS)

Technical Specifications

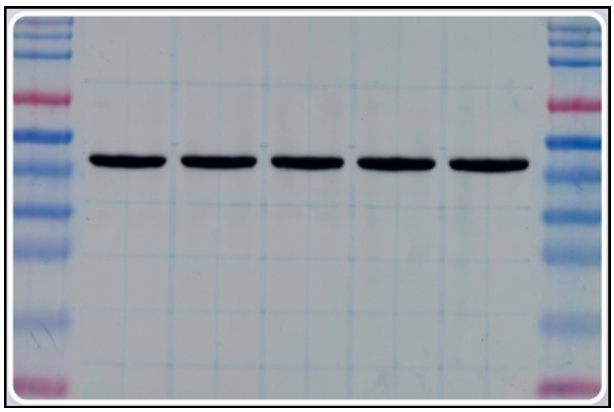
Parameter		Specification
Product power	≤300W	
Product net weight	30.65 kg	
Dark box	Light isolation	Fully light sealed, isolated environmental light
	Door control	Door control sensor can control the ON/OFF of the bright field light source
	Rotating disc	Switch the filter according to the current mode to match the applications of chemiluminescence and gel imaging
	Field of view	• Effective field of view for membrane/ protein imaging: 140 x 140mm • Effective field of view for nucleic acid gel imaging: 140 x140mm
	Gel cutting	After opening the door, the UV light source can be extracted and used with a UV protective board for cutting adhesive
Software functions	Exposure modes	• High quality: Highest image quality • Standard: Balances image quality and exposure speed • High sensitivity: Fastest exposure speed
	Auto exposure	Intelligent exposure technology quickly determines the optimal exposure time. Auto-binning. With the combination of time imaging and time accumulation functions, users can achieve the best image results with just one operation.
	Real time imaging	Real time presentation of the changes in sample signals during the exposure process, allowing for the observation of every detail of the capture. Overexposed areas will be indicated for samples with overexposure.
	Time imaging	After exposure is complete, each frame image within the exposure time can be generated. Through precise retrospective adjustments, users can choose any frame image within that exposure time as the final output.
	Time accumulation	For samples with insufficient exposure, users can choose to continue exposure after the initial exposure is completed, enabling the sample to receive additional exposure on top of the already exposed time.

Colour + Monochrome camera



Marker optimization mode

Multi film imaging mode

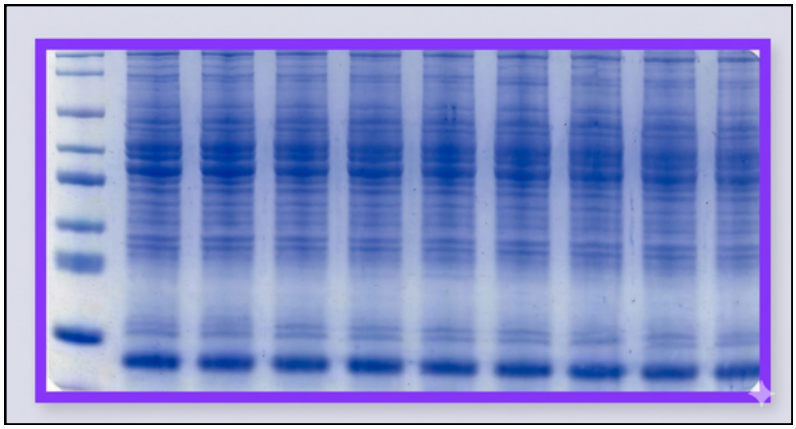


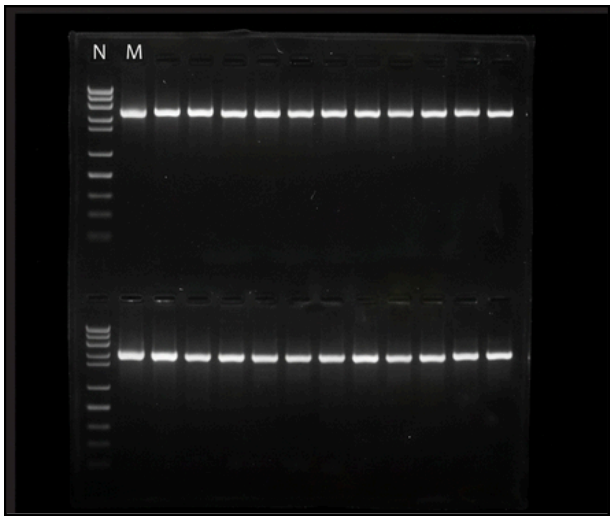
Colour WB Membrane Imaging

- One shot imaging regardless of signal strength.
- Simultaneous exposure of multiple membranes boosts efficiency by 10X.
- Colour markers clearly indicate band size.
- Optimized auto exposure algorithm for higher sensitivity.
- Reduces nonspecific binding of pre-stained marker and antibodies while enhancing marker signal clarity for accurate band analysis.

Colour Protein Gel Imaging

- One shot imaging regardless of signal strength.
- Simultaneous exposure of multiple membranes boosts efficiency by 10X.
- Colour markers clearly indicate band size.
- Optimized auto exposure algorithm for higher sensitivity.
- Reduces nonspecific binding of pre-stained marker and antibodies while enhancing marker signal clarity for accurate band analysis.



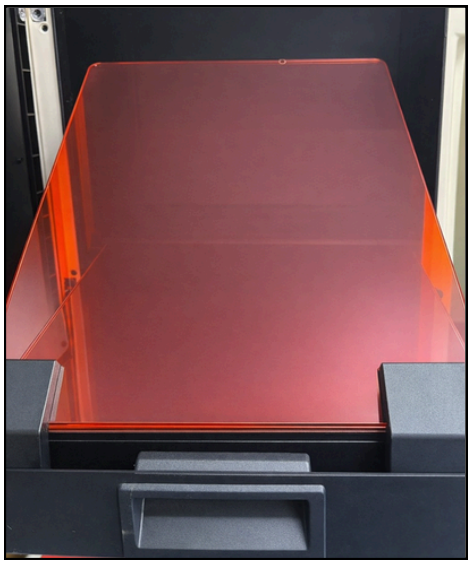


Nucleic Acid Gel Imaging

- Equipped with 310/254/365 nm LED UV light source, compatible with common nucleic acid dyes like EtBr, SerRed, SerBlue, GoldView and SYBR Green.
- LED UV illumination provides more uniform lighting, better image quality and longer lifespan.

Nucleic Acid Gel Cutting

- Supports nucleic acid gel cutting with standard UV laser protective shield.
- Cut off optical density > OD7 ensures high level protection for safer operation.



Chemiluminescence Imaging System (IG-16CIS)

9 MP Depth-Cooled Camera

- 9 MP high-resolution sensor for sharp and detailed gel images.
- Depth-cooled technology reduces background noise for clearer results.
- High sensitivity enables detection of faint DNA/RNA/protein bands.
- Improved signal-to-noise ratio for accurate and reliable gel documentation.

Multi-Illumination Platform

- Brightfield LED: For standard gel visualization.
- UV 302 nm Transmission: For nucleic acid detection.
- UV 254/365 nm Epi: For protein or DNA/RNA fluorescence imaging.
- Fluorescence 470/530/650 nm: Supports multiple fluorophores for advanced imaging.
- Optional Blue/White Dual Illumination: Flexible imaging for diverse applications.

Multi-Application FOVs (Field of Views)

- Membrane/ Protein: 155 × 155 mm
- Nucleic Acid: 215 × 215 mm

Compatible Dyes

Supports SYBR, EtBr, GFP, RFP, Cy3, and Cy5 for versatile fluorescence imaging.

Connectivity Options

Ethernet and HDMI ports for easy network integration and high-quality display output.

Cooling Capability

Operates at Ambient to −40°C for enhanced sensor performance and reduced noise.

8-Position Filter Wheels

Equipped with 8 filter positions for versatile fluorescence and multi-channel imaging.

Nucleic Acid Gel Cutting

Supports precise gel excision for downstream analysis and experiments.

Advanced Imaging Modes

Offers real-time, time-accumulation, and auto-exposure options for optimized image capture.

Chemiluminescence Imaging System (IG-16CIS)

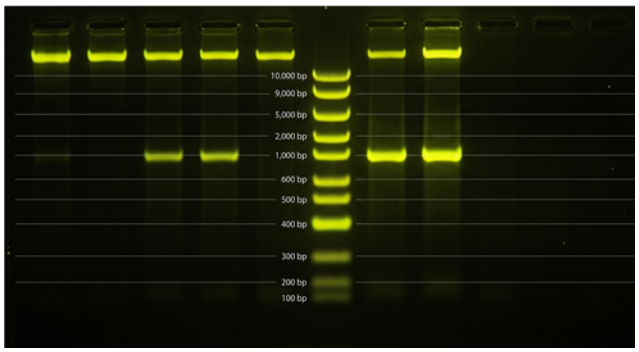
Technical Specifications

Parameter		Specification
Model No.		IG-16CIS
Dimensions		400 x 371 x 700 mm
Camera	Pixel Resolution	9 million pixels
	Resolution	3000 X 3000
	Pixel size	3.76 x 3.76 μm
	Target size	1 " (11.28 x 11.28 mm)
	Full well capacity	16.5ke-(HCG), 50.5ke-(LCG)
	Sensitivity	877 mV @ 1/30s
	Readout noise	1.24e-(HCG), 3.22e-(LCG)
	Dark current	0.0003e-/s/pixel @-15°C
	Signal to noise ratio	42.2dB (HCG), 47dB (LCG)
	Exposure time	0.1ms-1h
	Binning mode	1 x 1, 2 x 2, 3 x 3
	Grayscale	16-bit (65536 levels)
	Cooling	Relative to ambient temperature -40°C
	Camera type	Black and white camera
Lens	Aperture	F0.95~F16
	Focal length	17 mm
	Type	Motorized lens
Light Source	Bright field light source	Downward facing LED white light source, symmetrically distributed on both sides
	UV light source	• 302nm LED array with uniform transmitted illumination • 254nm/365nm LED UV light sources (symmetrically distributed on both sides)
	Fluorescence source	Episcopic fluorescence source, 470nm, 530nm, 650nm, symmetrically distributed on the top
	Dual blue/white light sources	Optional: Blue light/white transmission switching, each with 3 levels of power cycle adjustment
Industrial computer	10.4" display (1024 x 768), Windows OS, 16GB RAM, 512GB SSD, Integrated Bluetooth/Wi-Fi	

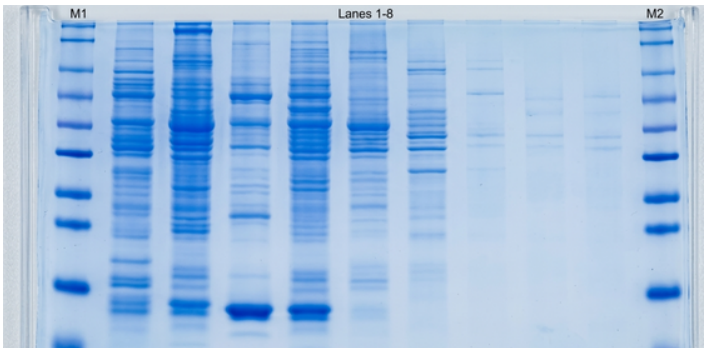
Chemiluminescence Imaging System (IG-16CIS)
Technical Specifications

Parameter		Specification
Product power	≤300W	
Product net weight	35 kg	
Dimensions	400 x 371 x 700 mm	
External interfaces	USB 3.0 x 2	
Operating voltage	90~132VAC/180~264VAC (selectable via switch), 47~63Hz	
Dark box	Light isolation	Fully light sealed, isolated environmental light
	Door control	Door control sensor can control the ON/OFF of the bright field light source
	Rotating disc	Switch the filter according to the current mode to match the applications of chemiluminescence and gel imaging
	Field of view	• Effective field of view for membrane/ protein imaging: 155 x 155 mm • Effective field of view for nucleic acid gel imaging: 215 x 215 mm
	Gel cutting	After opening the door, the UV light source can be extracted and used with a UV protective board for cutting adhesive
Software functions	Exposure modes	• High quality: Highest image quality • Standard: Balances image quality and exposure speed • High sensitivity: Fastest exposure speed
	Auto exposure	Intelligent exposure technology quickly determines the optimal exposure time. Auto-binning. With the combination of time imaging and time accumulation functions, users can achieve the best image results with just one operation.
	Real time imaging	Real time presentation of the changes in sample signals during the exposure process, allowing for the observation of every detail of the capture. Overexposed areas will be indicated for samples with overexposure.
	Time imaging	After exposure is complete, each frame image within the exposure time can be generated. Through precise retrospective adjustments, users can choose any frame image within that exposure time as the final output.
	Time accumulation	For samples with insufficient exposure, users can choose to continue exposure after the initial exposure is completed, enabling the sample to receive additional exposure on top of the already exposed time.
	Marker cleanup	When additional signal bands appear on the marker, there is no need to re-prepare the samples. The extra signal bands on the marker can be cleared with one click on the results interface.

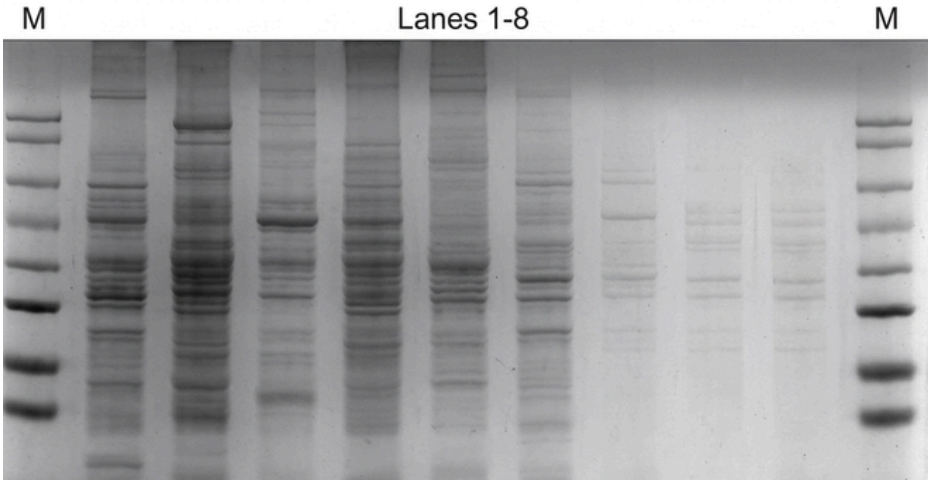
A complete solution for high-resolution nucleic acid and protein gel imaging, enabling seamless transition between colour and grayscale imaging modes.



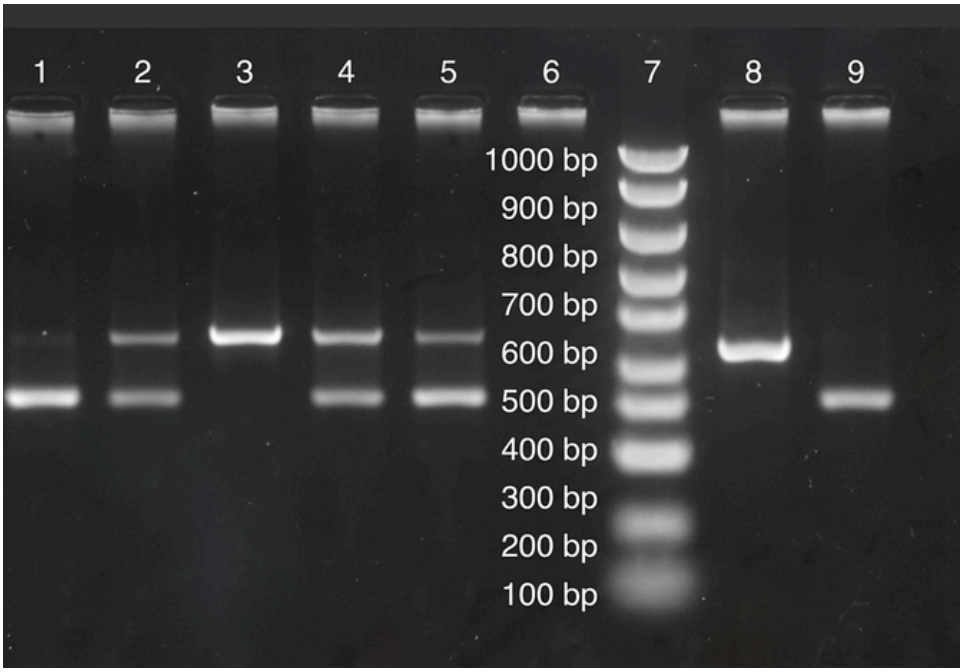
Nucleic Acid Gel Imaging (Colour)



Protein gel imaging (Colour)

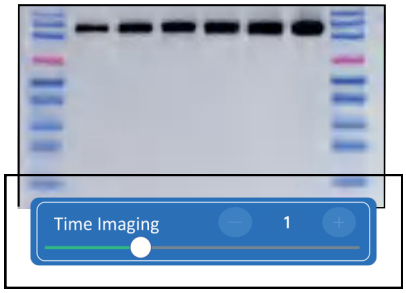


Protein Gel Imaging

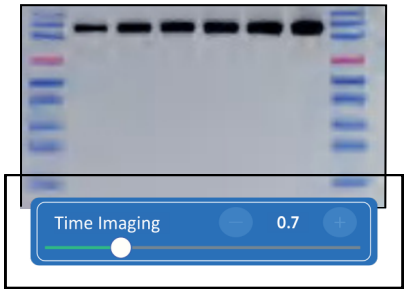


Nucleic acid gel imaging

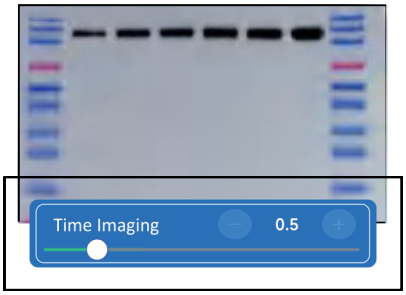
If the signal is strong, move the exposure timeline to the left to select a shorter exposure time. You can also fine-tune the exposure in 1-second increments to prevent overexposure.



Result at 1s

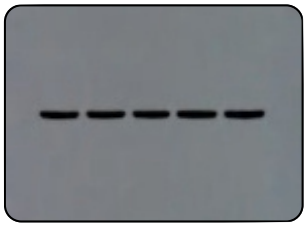


Result at 0.7s

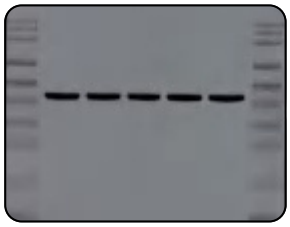


Result at 0.5s

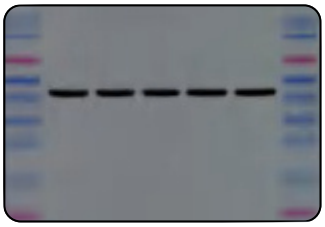
The colour camera captures markers in true colour for intuitive band size visualization, while the monochrome camera captures bands with high clarity and sensitivity.



Band exposure imaging

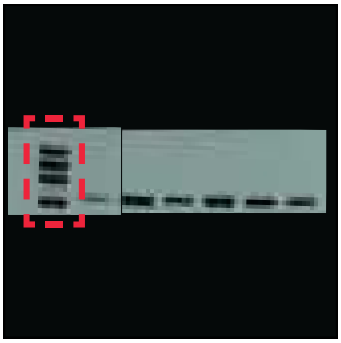


Post-imaging blot (black)

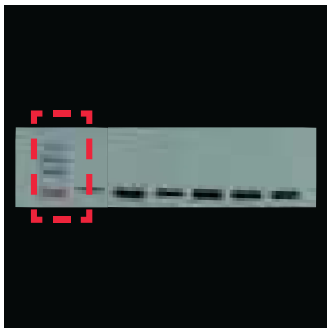


Post-imaging blot (colour)

IG-15CIS eliminates non-specific marker signals, balances signal intensity, and ensures optimal band exposure for clear and accurate molecular weight determination.



Pre-stained marker exposed

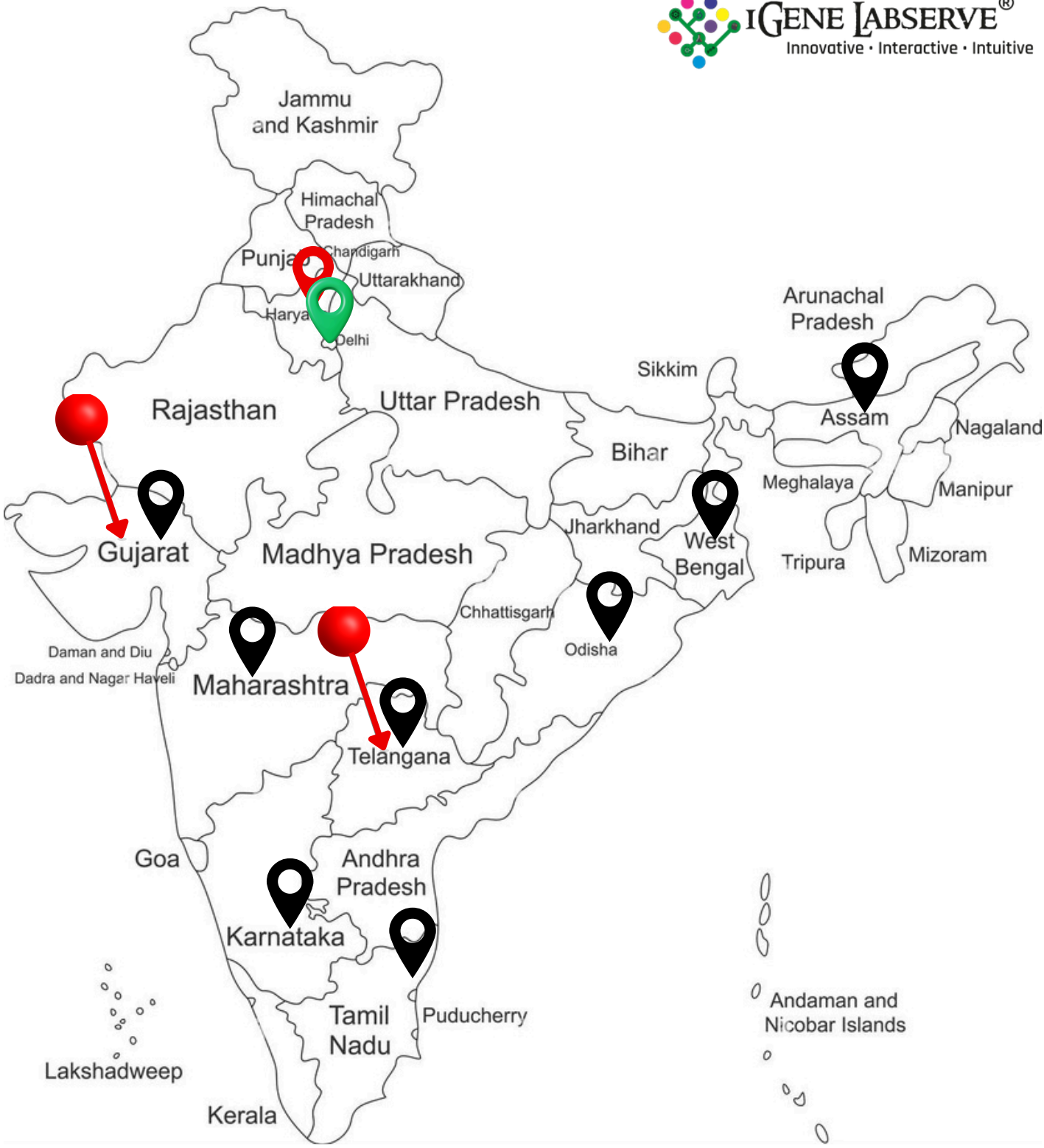


Restored marker image

Ordering Information

Model	Description	Unit
IG-218GD	The Basic Gel Documentation System equipped with a high-resolution DSLR camera is supplied as a complete setup for gel imaging applications. The system includes the main instrument body, power cord, UV transilluminator, USB connecting cable, UV protection shield, white light sheet, mouse, and a pen drive containing the software and user manual. Additionally, an optional multipurpose blue and white light plate is available to support a wider range of gel visualization applications.	1
IG-618GD Touch	Touch-screen Gel Documentation System with 6.3 MP camera for Nucleic acids and proteins. The system includes the main instrument body, power cord, UV transilluminator, USB connecting cable, UV protection shield, white light sheet, mouse, and a pen drive containing the software and user manual. Additionally, an optional multipurpose blue and white light plate is available to support a wider range of gel visualization applications.	1
IG-14CIS	Chemiluminescence imaging system. The system includes the main instrument body, power cord, UV transilluminator, USB connecting cable, UV protection shield, white light sheet, mouse, and a pen drive containing the software and user manual. Additionally, an optional multipurpose blue and white light plate is available to support a wider range of gel visualization applications.	1
IG-15CIS	Chemiluminescence imaging + Gel documentation system for nucleic acids and proteins. The system includes the main instrument body, power cord, UV transilluminator, USB connecting cable, UV protection shield, white light sheet, mouse, and a pen drive containing the software and user manual. Additionally, an optional multipurpose blue and white light plate is available to support a wider range of gel visualization applications.	1
IG-16CIS	Chemiluminescence imaging + Gel documentation system for nucleic acids and proteins + Fluorescence Gel Imaging System. The system includes the main instrument body, power cord, UV transilluminator, USB connecting cable, UV protection shield, white light sheet, mouse, and a pen drive containing the software and user manual. Additionally, an optional multipurpose blue and white light plate is available to support a wider range of gel visualization applications.	1

iGENE LABSERVE®
Innovative • Interactive • Intuitive



Head office

Branch offices

Manufacturing plant

Service stations

10000+ Installations globally

GET IN TOUCH

Toll Free No.: 1800572 0603

Website: https://www.igenels.com

Email: info@igenels.com