



Transilluminators & Imaging Systems



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Iris Trans-illuminators and Imaging System are designed to a viewing of DNA, RNA, and protein in electrophoresis gel using UV transilluminators, LED-Trans illuminator, gel documentation system, and chemiluminescence.

A gel documentation system consists of a CCD camera, operation mode convertor, multi fluorescence mode, ultra-slim transilluminator for blue light, and white light transmission and UV transilluminator contain a non-lamp design for uniform transmission.

Our systems can be used on the tabletop and floor standing an imaging system. We offer the largest range of systems and we can offer systems that meet any application need.

Measure Equipment

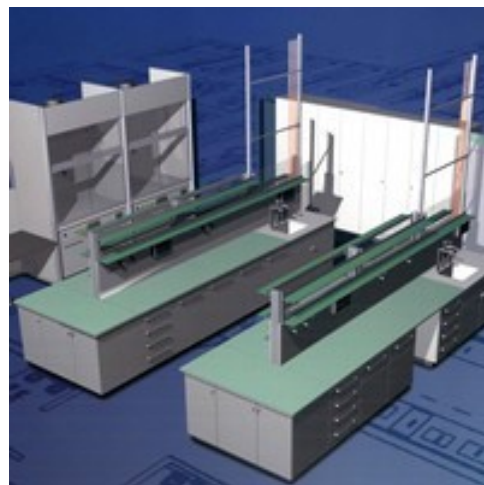
When installing or refurbishing your new laboratory you will also need peripheral equipment such as dishwashers, water purification systems, vacuum systems, laminar flow... etc

When planned in advance you can easily integrate them into the design of your new laboratory.



Furniture Products

VWR are happy to assist you in planning the perfect laboratory environment, from design to installation. Click further in for more information on how we can help plan, design and install the laboratory that meets your requirements and conforms to your standard operating procedures.



Transilluminator

Iris Transilluminator features a uniform and bright illumination. The high-class application of high-grade filter glass offers for accurate documentation effects with low background signal. Our excessive illumination consistency permits the consistent quantification of electrophoretic and detached fluorescent samples.



Our Transilluminators are furnished with an ultraviolet blocking cover to shield the user from UV radiation and an LED plate which illuminates samples from the bottom up, producing LED trans-illumination. The base is coated with high-quality, scratch-resistant powder.

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UV Transilluminator IUT-2000 Series

UV Transilluminator IUT-2000 Series dual-wavelength UV Trans-illuminator wavelength ranging from 302 nm to 365 nm and detect nucleic acid stained gel to a UV light source using ethidium bromide and other dyes like SYBR-Green and SYPRO- Orange that is mostly used as a nontoxic dye for the post nucleic acid stain. These series have the greatest detection sensitivity for DNA and RNA fragments. This is the most widely used Trans-illuminator used in university, research department, and corporation involved in molecular biology, molecular genetics, medical and sanitation, agriculture, and other life science fields. We also offer a range of electrophoresis products designed with maximum value. We are dedicated to understanding customer needs. Provide high-grade glass for low background. The UV Trans-illuminator includes a UV protection lid that is fascinatingly held in place; adjust it in an angled point and to use it as a protection guard when working on a UV-fluorescent gel.



- Long life and strong illumination with multiple pieces of LED light
- CE and FCC certified
- High-quality UV Trans-illuminators are designed for observing DNA/RNA in agarose gels stained with ethidium bromide dye
- Features with dual-wavelength options for added flexibility and convenience: 302 & 365 nm
- Equipped with wavelength-selectable that fit for different DNA dyes including SYBR-green, SYPRO-orange
- Dual-light Trans-illuminator unit system
- Unique cooling fan features
- High efficiency of wavelength confirms extremely detective sensitivity, enhance capturing ability for weak signals
- Design with rational structure and high-quality UV lamp
- Excellent irradiance uniformity and Unsurpassed UV intensity
- High-efficiency reflector
- Adjustable UV protective glass ensuring better UV protection to the user
- White light filter surface designed for coomassie blue stained protein gels, methylene blue-stained DNA gels, silver-stained protein gels, autoradiographic and microtiter plates
- Equipped with removable, adjustable UV blocking shield

Model	IUT-2000	IUT-2100		IUT-2200		IUT-2300		IUT-2400	
Wavelength	302 nm	302 nm		302 & 365 nm		302 nm		302 & 365 nm	
Filter Size	8x15 cm(UltraSafe UV blocking)	16 x 20 cm(UltraSafe UV blocking)				21 x 26 cm (UltraSafe UV blocking)			
Design Type		Mono wave length		Dual wave length		Mono wave length		Dual wave length	
Intensity		Adjustable Intensity							
UV Lamp	6 W 1 pc	8 W 5 pcs		8 W 9 pcs		8 W 6 pcs		8 W 11 pcs	
Sensitivity	0.5 ng	0.1 ng							
Certification		CE and FCC							
Cover Material		Aluminum alloy metal frame							
Dimension	247x132x48.5 mm	280 x 340 x 80 mm							
Weight	1.4 kg	4.3 kg							
Electrical Requirement	DC 12V, 1.5 A	AC 100V/50Hz	AC 240 v/60 Hz	AC 100V/50Hz	AC 240 v/60 Hz	AC 100V/50Hz	AC 240 v/60 Hz	AC 100V/50Hz	AC 240 v/60 Hz
Catalogue No.	3401005-04	340101001	340101002	340101501	340101502	340102001	340102002	340102501	340102501

UV Transilluminator IUT-1000 Series

UV Transilluminator IUT-1000 Series designed for illumination of the sample under excitation of UV light with a single and double wavelength ranging from 302 nm to 365 nm and detect nucleic acid stained gel to a UV light source using ethidium bromide and other dyes like SYBR-Green and SYPRO- Orange that is mostly used as a nontoxic dye for the post nucleic acid stain. These series have the greatest detection sensitivity for DNA and RNA fragments. This is the most widely used Trans-illuminator used in university, research department, and corporation involved in molecular biology, molecular genetics, medical and sanitation, agriculture, and other life science fields. We also offer a range of electrophoresis products designed with maximum value. We are dedicated to understanding customer needs. Provide high-grade glass for low background. The UV Trans-illuminator includes a UV protection lid that is fascinatingly held in place; adjust it in an angled point and to use it as a protection guard when working on a UV-fluorescent gel.



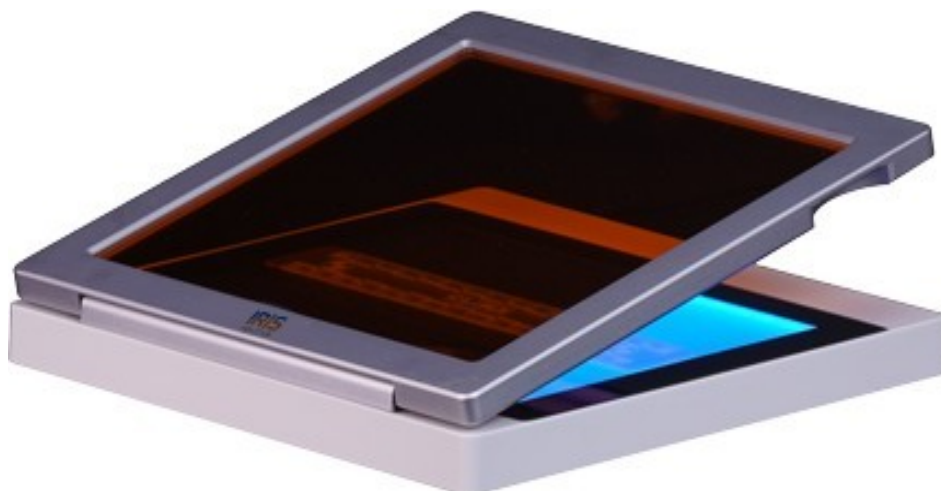
- High-quality UV Trans-illuminators are designed for observing DNA/RNA in agarose gels stained with ethidium bromide dye
- Features with 3 wavelength options for added flexibility and convenience: 254 nm, 302 nm or 365 nm
- Working sizes range with 20×20 cm work surfaces
- Equipped with wavelength-selectable that fit for different DNA dyes including SYBR-green, SYPRO-orange
- Dual-light Trans-illuminator unit system
- Unique cooling fan features
- High efficiency of wavelength confirms extremely detective sensitivity, enhance capturing ability for weak signals
- Design with rational structure and high-quality UV lamp
- Excellent irradiance uniformity and Unsurpassed UV intensity
- High-efficiency reflector
- Adjustable UV protective glass ensuring better UV protection to the user
- White light filter surface designed for coomassie blue stained protein gels, methylene blue-stained DNA gels, silver-stained protein gels, autoradiographic and microtiter plates
- Equipped with removable, adjustable UV blocking shield

Model	IUT-1445SW	IUT-1854DW
Wavelength	302 nm	302, 365 nm
Filter Size	210×210 mm	
Colour	Multi	
Design Type	Mono wavelength	Dual-wavelength
UV shield	Transparent	
Intensity	Variable Intensity	
Internal Dimension	360×290×100 mm	
External Dimension	460×370×210 mm	
Weight	6.6 kg	
Catalogue No.	3400505-04	3400510-04

LED Transilluminator IUT-3000

LED Transilluminator IUT-3000 portable and non-toxic and safe light transilluminator for the detection of nucleic acid and protein staining. It is used to detect DNA and protein stain at the same sensitivity to that of the UV Transilluminator by combine with Gel Red, Gel Green, SYBR safe, EtBr, and novel Ultra Power dye, after it was excited by a combination of LED light and an amber filter. Ideal for visualizing and excising DNA bands from a gel, since unlike UV light, the LED lights do not cause damage to the DNA sample.

Also, the best light source for developing the staining of gels stained with the visible blue DNA gel stain Ultra Power dye is a new DNA gel stain with extremely high sensitivity. After staining with Ultra Power dye the DNA bands first appear colorless but then become dark blue after developing with light exposure. Suitable for a number of imaging or optical applications. The IUT-3000 use for viewing fluorescent molecules that require 470 nm excitation light without damaging DNA and protein molecules. The blue LED lights are arranged under the viewing area 130×170 mm and the amber filter, on hinges, is lowered into position once your gel is mounted. The stained gel is now ready for viewing.



- Robust LED blue light for excitation
- No damage to skin and eyes as well as zero damage to DNA
- Provide excellent safety than UV trans illuminator
- Design with compact and thin structure
- Easy handling, Low noise
- Excellent durability of LED
- High energy conservation
- Single wavelength unit
- Optimizing the use of nucleic acid and protein stain including gel red, gel green, SYBR safe, EtBr and novel ultra-power DNA safe dye
- Uniform and regular observation of sample
- Easy gel cutting, not require amber glasses

Model	IUT-3000
Wavelength	470 nm
Filter	Amber filter
LED lifetime	100,000 hours
Sensitivity	0.1 ng
Uniformity	<5% CV (coefficient of variance)
Viewing surface	130×170 mm
Intensity	Single Intensity
Dimensions	210×210×28 mm
Weight	2.2 kg
Catalogue No.	3401505-04

LED Transilluminator IUT-4000

LED Transilluminator IUT-4000 ultra-bright LED transilluminator with triple wavelength range. Designed for viewing stained gels on the laboratory bench within the gel documentation system. The LED for excitation does not cause a burn to your skin - No DNA damage inherent to UV. Uniformity supplies <5 to 10 % coefficient of variance across the full filter area. Sensitivity: Up to 1 ng. The dimensions 210x210x30mm. Lighting from the LED source inside the instrument produces Blue light with a narrow emission with wavelength ranging 530 nm, 630 nm, 470 nm. Blue light is more effective for the excitation of most nucleic acid and protein stains. The transilluminator is fully assembled and ready to use. It comprises a DC 24V power supply.



- Ultra-bright LED transilluminator
- The LED for excitation does not cause a burn to your skin - No DNA damage inherent to UV. Uniformity supplies <5 to 10 % coefficient of variance across the full filter area. Sensitivity: Up to 1 ng
- Equipped with high luminosity, high sensitivity, and good uniformity
- User can set the viewing screen to any angle
- Protect sample from damage
- CE and FCC certified

Model	IUT-4100	IUT-4200	IUT-4300	IUT-4400
Wavelength	470 nm			530 nm, 630 nm, 470 nm
Filter Size	16 x 20 cm			
Filter	Amber filter			
Color	White	Black	-	-
Light Source	Blue			Red, Green and Blue
Design Type	Mono wave length			Triple wave length
Sensitivity	1 ng			
Uniformity	CV 10%		CV 5%	
Viewing surface	Transparent			
Power Consumption	1.25 A			
Certification	CE and FCC			
Cover Material	Aluminum alloy metal frame			
Dimensions	210x210x30 mm		280x340x80 mm	
Weight	2.3 kg		3.6 kg	
Electrical Requirement	DC 24V			
Catalogue No.	3402005-04	3402010-04	3402015-04	3402020-04

Gel Documentation System

Iris Gel Documentation System accommodates a different range of samples and maintains different detection modes. We provide the right features for customer needs by providing excellent gel documentation systems.



We deliver an ideal system for laboratories that provide smart imaging performance by only one click to take the supreme images. User can image their choice of dyes and stains by choosing UV, blue or white lighting, UV+BLUE+White transmission, and RGB reflection options.

The system software selects the right lighting and filters for the user, making it easy to image fluorescent ethidium bromide or SYBR safe DNA gels and protein gels stained with coomassie blue or silver dye.

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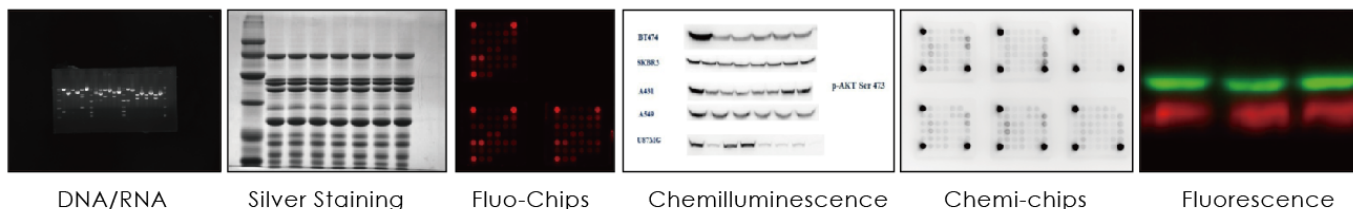
Gel Documentation System IGS-2000 Series

Gel Documentation System IGS-2000 Series covers chemiluminescence and multiplexing fluorescence applications. Ideal for reproducible and comparable quantification data. Add a UV transmission, UV+BLUE light transmission, UV+BLUE+White light transmission, and UV+BLUE+White transmission and RGB reflection. The scientific CCD camera is controllable from PC, operation mode convertor, multi fluorescence mode, ultra-slim transilluminator for blue light and white light transmission, and UV transilluminator contain a non-lamp design for uniform transmission. Applicable for blotting membrane such as western lightning, ECL, ECL plus, CDP star, super signal, CSPD, LumiGlo, Cy2, Cy3, Cy5, FITC, Alexa dyes, daylight dyes, ProQDiamond, ProQEmerald 300, ProQEmerald 488, IR Dye 680, etc.; protein inspection and Gel Inspection. The system is built for high performance and automation and features a next-generation, and compatible with 8 Sockets filter wheel. Build-in software for image enhancement, editing, and image analysis. Detect far weaker signal and offer higher sensitivity and wider linear range, human-computer interactive program.



- The system is supplied complete 6.05 MP, 2750×2200 16 bit (65536 grayscale), CCD camera
- F0.8 motorized ultrafast lens and 8 sockets filter wheel
- Excitation Light include UV Light Ex365, Blue Light Ex470, Green Light Ex530, Red Light Ex630, Near-infrared Ex660, Near-infrared Ex770
- Unique filters facilities: m460/30F, Em460/31F, Em460/32F, Em460/33F, Em460/34F, Em460/35F
- Design with the front panel through reaction injection moulding
- Switchable operation mode
- UV SMART trans illuminator
- Manufactured with blue and white light trans-illuminator
- Design with 3 sample tray such as super-slim white LED, super slim blue LED(470 nm) and UV Smart UV trans-illuminator(302 nm)
- Greater sensitivity and compatible with 8 Sockets filter wheel
- Used for DNA/RNA, silver staining, fluo-chips, Chemilluminescence, chemo-chips, fluorescence

Application



DNA/RNA

Silver Staining

Fluo-Chips

Chemilluminescence

Chemi-chips

Fluorescence

Model	IGS-2010	IGS-2020	IGS-2030
Lens	F0.8 motorized ultrafast	F0.95 motorized ultrafast	F0.8 motorized ultrafast
Type	-	Embedded industry computer with touch screen	
Sensor	12.49×9.99 mm CCD sensor		
Camera	CCD camera		
Resolution	6.05 MP, 2750×2200		
Efficiency	75%		
Pixel Size	4.54×4.54 μm		
Pixel Density	16 bit(65536 gray scale)		
Filter Wheel	8 sockets filter wheel		
Cooling Temperature	-25℃		
Excitation Light	UV Light Ex365, Blue Light Ex470, Green Light Ex530, Red Light Ex630, Near infrared Ex660, Near infrared Ex770		
Filters	Em460/30F, Em460/31F, Em460/32F, Em460/33F, Em460/34F, Em460/35F		
Internal Dimension	430×380×690 mm		
External Dimension	550×490×760 mm		
Weight	33 kg		
Catalogue No.	3403005-04	3403010-04	3403015-04

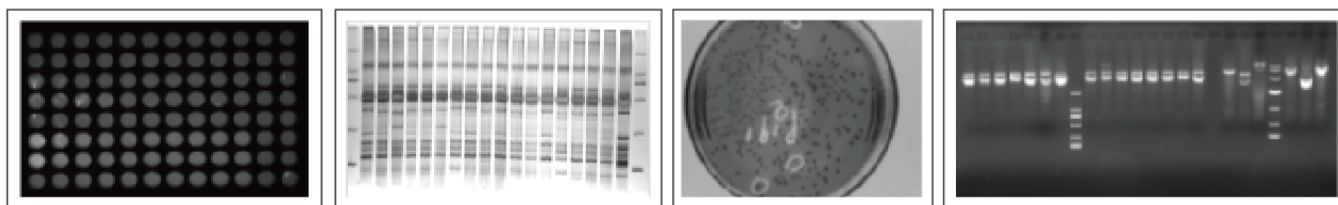
Gel Documentation System IGS-1000 Series

Gel Documentation System IGS-1000 Series add a UV transmission; UV+BLUE light transmission, and UV+BLUE+White light transmission plate for detection of nucleic acid and protein fluorescence and provide low background light. Scientific CCD camera controllable from PC, operation mode convertor, multi fluorescence mode, ultra-slim transilluminator for blue light and white light transmission, and UV transilluminator contain a non-lamp design for uniform transmission. Applicable for protein inspection such as commassie brilliant blue, silver staining, fluorescent dyes, and many more, ELISA plate, petri dish colony counter, TLC plate, etc. and gel inspection such as diverse dyes, marked DNA/RNA detection, etc. Aimed to detect and documentation of DNA/RNA and proteins. The system is built for high performance and automation and features a next-generation, high quantum efficiency scientific digital camera, and F1.2 motorized lens for even greater sensitivity and compatible with 8 Sockets filter wheel. Build-in software for image enhancement, editing, and image analysis. Detect far weaker signal and offer higher sensitivity and wider linear range, human-computer interactive program.



- The system is supplied complete 5.0 MP, 2592×1994 and 5.2 MP, 2560×2048, scientific digital camera
- F1.2 motorized lens and 8 sockets filter wheel
- Excitation Light include UV Light Ex365, Blue Light Ex470, Green Light Ex530, Red Light Ex630, Near-infrared Ex660, Near-infrared Ex770
- Offer special features like operation mode converter
- Eco-friendly unit
- Unique filters facilities: m460/30F, Em460/31F, Em460/32F, Em460/33F, Em460/34F, Em460/35F
- The front panel and door is designed by reaction injection molding
- Switchable operation mode
- Design with 3 sample tray such as super-slim white LED, super slim blue LED(470 nm) and UV Smart UV trans-illuminator(302 nm)
- Greater sensitivity and compatibility

Application



Model	IGS-1200	IGS-1400	IGS-12600T	IGS-1800T
Lens	F1.2 motorized lens			
Type	-		Embedded industry computer with touch screen	
Camera	Scientific Digital Camera			
Resolution	5.0 MP, 2592×1994	5.2 MP, 2560×2048	5.0 MP, 2592×1994	5.2 MP, 2560×2048
Efficiency	70%	78%	70%	78%
Pixel Density	16 bit(65536 gray scale)			
Filter Wheel	8 sockets filter wheel			
Readout Noise	5.1e-RMS	3.2eRMS	5.1e-RMS	3.2eRMS
SNR	70.1db	72.8db	70.1db	72.8db
Cooling Temperature	25℃			
Excitation Light	UV Light Ex365, Blue Light Ex470, Green Light Ex530, Red Light Ex630, Near infrared Ex660, Near infrared Ex770			
Filters	Em460/30F, Em460/31F, Em460/32F, Em460/33F, Em460/34F, Em460/35F			
Internal Dimension	430×380×690 mm			
External Dimension	550×490×760 mm			
Weight	33 kg			
Catalogue No.	3402505-04	3402510-04	3402515-04	3402520-04

Gel Documentation System IGS-3000 Series

Gel Documentation System IGS-3000 Series dual-wavelength light source: UV light with 302 nm light source, provide better sensitivity and Blue LED with 470 nm light source, provide better downstream data. For moderate excitation of fluorescent DNA bands in gel without damaging DNA by UV radiation and ensuring the safe image. This can also be used as a separate transilluminator with the gel sited directly on the illuminator. Offer great intensity blue LED illuminator allows visualization of a wide range of DNA stains. Easily access and document gels with being damage.



- Build with switchable UV and blue light filters
- Easy handling with compact structure, provide a smaller working area
- Convenient Wi-Fi, easy to download and print the image
- The open system provides high compatibility to other transilluminators
- Dual-wavelength light source: UV light with 302 nm light source, provide better sensitivity and Blue LED with 470 nm light source, provide better downstream data
- Ensure that the safe imager
- Place the gel onto the surface
- Easily access and document gels with being damage

Model	IGS-3010	IGS-3020
Lens		F1.8 : 5x lens, F8.0
Wavelength	-	302 nm(UV Light), 470 nm(LED light)
Camera		Canon EOS M-series type
Resolution		24.7 Mega pixels
Display		LCD
Filters		Amber filter/ UV cut filter
Interface		USB, Wi-Fi
Dimension	275 x 238 x 250 mm	250x203x364 mm
Weight	2 kg	8 kg
Electrical Requirement	-	DC 12V
Catalogue No.	3403505-04	3403510-04

