



**Your partner in scientific discovery
with GeneBio Systems**



Gel Documentation at its Best
UVP GelStudio Imaging Systems

The GelStudio Product Family

From the trusted experts in gel documentation, comes the next generation of digital imagers.



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The method of gel documentation has essentially remained the same for over two decades. With the introduction of digital imaging systems, researchers have benefitted from the convenience of storage data along with instant and accurate sample quantification. The effectiveness of digitized gel imaging can be measured by the growth of the technique used throughout biochemistry, forensics, genetics, molecular biology and biotechnology.

The GelStudio Series by Analytik Jena is a direct response to the expanding needs of the researcher. Upgradeable designs give you the edge in your lab. The UVP GelStudio product family features the newest technology, a uniquely intuitive software interface and a top-of-the-line 12 MP gel imaging camera, giving you uncompromised data, every single time. With a Studio in your lab, your research is unlimited.



UVP GelStudio

GelStudio Product Family

Gel Documentation at its Best.



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UVP GelStudio PLUS

UVP GelStudio Imaging Systems



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Gel imagers designed with you in mind.

The creators behind the UVP GelStudio imaging systems are renowned for delivering advanced solutions to genomic and proteomic applications. UVP GelStudio imagers offer high-resolution and sensitive imaging of DNA & protein gels. They also work with an unlimited range of excitable stains and dyes.

All imagers run the powerful VisionWorks® Software, full package image capture, enhancement functions and analysis software. Application-based icons for automation, which are included in the software package, offer one-touch capture. The software allows for the creation of custom icons and workflows based on users' needs.

The UVP GelStudio guarantees top image quality and an optimized range of high performance features. With its high resolution camera, high dynamics and excitation ranges from 400 to 800 nm, this series introduces a new benchmark that goes far beyond publication-quality images.



UVP GelStudio UVP GelStudio *touch*

A New Standard in Gel Documentation.



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Image quality is the top priority

- **Performance:** High quality images with a 12 MP camera and efficient photon-to-signal conversion.
- **Sensitive:** Wide aperture lens optics capture more light in low-light applications. Signals come faster and are stronger.
- **Customized:** User-controlled image enhancement tools to optimize images, using binning, display control, background subtraction, inversion, dark frame correction, noise removal, and many more functions.

Upgradeable gel imaging station

- **Versatile:** Ideal for imaging and documentation of DNA and Protein gels, blue/white excitable dyes, TLC plates, colorimetry, colony plates, and a wide range of fluorescent dyes. Excitation in a range of 400–800 nm.
- **Modular:** Modules for multiplexing, with the option of upgrades that can be carried out in the field.
- **Free Choice:** Various UV wavelengths, white or blue LED transilluminator.
- **Flexible:** Application-based icons for commonly used applications provide one-touch capture. Templates and macros for creating custom one-touch workflows.

Data integrity

- **Powerful:** Numerous features for image enhancement and data analysis.
- **Uncompromised:** Unmodified raw data. Users have the choice of applying image enhancement tools.
- **Reproducible:** Calculation of accurate concentration results, including the calibration standard.

Designed by researchers for researchers

- **Compact:** Small footprint and compact form maximize the use of laboratory bench space.
- **Unrivaled:** Integrated touch-screen computer.
- **Extensive:** A wide illuminated imaging area for simultaneous imaging of multiple samples.
- **Ergonomic:** Thin-Line Transilluminator in a slide-out tray for easy prep.
- **Safe:** UV protection shield protects those doing prep work over the transilluminator.
- **Practical:** Fold-down door minimizes benchtop interferences.



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Versatile for All Your Application Needs

The UVP GelStudio Systems are built to image DNA gels, protein gels, colorimetrics, and colony plates.

Supporting a wide range of applications

All GelStudio systems come with a 302 nm UV transilluminator and overhead white and RGB LEDs as standard enabling a wide scope of fluorescent and non-fluorescent imaging applications. Additional optional accessories such as emission filters, conversion screens and epi-UV sources add further versatility to the systems on demand.

Application-based automation and powerful data analysis – all in one stand-alone package

The VisionWorks® Software is a powerful platform. It features automated image capture, enhancement functions and extended analysis tools – all in one package. This software works with both stand-alone and external computer versions of the Studio series imagers.

This unique ability expands the tools available right on the benchtop when using the stand-alone platform. For those users who prefer to perform analysis on an external computer, all imagers include unlimited copies of the software for external use. Laboratory workflows are easy to automate and application-based icons are included for commonly used experiments. Customized application icons can be created and for total workflow solutions, features built using macros facilitate one-touch workflows.



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Revolutionary Thin-Line Transilluminator

All imagers are available as a package, which includes a 302nm, UV Thin-Line Transilluminator. The UV Thin-Line Transilluminator uses innovative long-life UV tubes, which practically eliminate service requirements. Instant-on functionality reduces warm-up time to almost zero.

An optional UVP Visi-Blue™ LED Transilluminator is available. It additionally supports blue excitation applications, including GelGreen™ and SYBR® Green (460–470 nm). A blue LED transilluminator represents the safest option for your lab, with no risk of DNA damage. It is also useful when DNA samples must be used for additional procedures that are performed after the imaging workflow. As an economical alternative to blue-light applications, a UVP Visi-Blue™ Converter Plate can be used with the Thin-Line Transilluminator to convert UV to blue.

For Coomassie blue, silver stains, and other trans white-light applications, the optional UVP Visi-White™ LED Transilluminator is recommended. An economical solution to additional white-light applications is available by simply pairing the UVP Visi-White™ Converter Plate with the UV Thin-Line Transilluminator.

With the help of a UVP eLITE Light Source, which uses Xenon light engine technology, uniform and high-intensity light across the full range of brilliant multispectral excitation can be produced for a variety of fluorescent dyes.





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A New Standard for Image Quality and Data Integrity

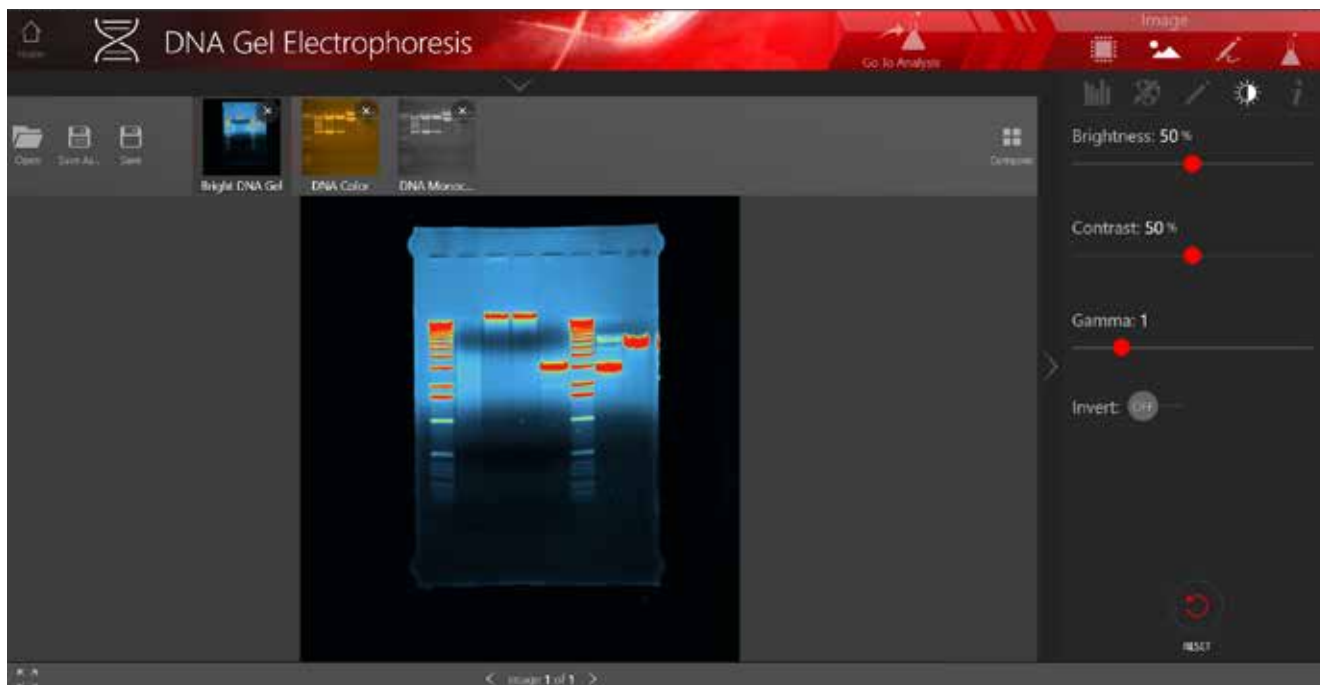
High performance gets the best results - guaranteed excellent image resolution, sensitivity and data integrity.

Clean images

The UVP GelStudio includes a high-performance 12 MP imaging camera. Capture the finest detail with our high resolution camera. The imagers are designed with an uncompromising focus on high-quality imagery, ensuring that they can bring the most value to your research.

Uncompromised data

Data integrity is essential for accurate and reproducible results. The VisionWorks® Software tools provide users with the freedom to apply image enhancement and analysis features when needed. They create uncompromised raw data and preserve the true data, promising the highest quantitative value.





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An Enhanced Benchtop Experience

Compact design, small footprint, a large integrated touch-screen computer and several ergonomic features – the UVP GelStudio design maximizes space and user comfort.

The UVP GelStudio *touch* provides a seamless, efficient imaging experience

An integrated 13.3 inch, wide touch-screen computer allows for the clear visualization of even faint bands and the fine details of images. Users can multitask easier than ever before on the wide screen, as they flip between open windows and files. Large and visible icons on the software interface increase accessibility, ensuring an improved and simple workflow. The computer also offers a huge hard drive for storing large amounts of images. The 7 USB ports make it possible to attach a keyboard, mouse, and other accessories, adding to the unit's user-friendliness. Additionally the device can be connected to local networks - either WLAN or ethernet.

Designed for ease of use and convenience

With a small footprint and fold-down door, the UVP GelStudio maximizes the use of the often limited laboratory bench space and removes benchtop interference. There when you need it for performing gel excision or procedures over the transilluminator surface, the low-profile transilluminator sits on a slide-out tray. All lighting and controls are software automated and are right at your fingertips. A software controlled five-position filter wheel, in a slide-out tray, allows for simple changeover, to various emission wavelengths.

Users are alerted to the presence of UV, by a bright red "UV On" indicator light. A user-defined, software controlled UV shut-off timer is activated after a set period of inactivity. A UV protection shield is also provided with the system to allow safe and convenient pre-imaging procedures on the transilluminator.





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UVP GelStudio PLUS Imaging Systems



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Image larger samples using the GelStudio PLUS models.

The UVP GelStudio PLUS imaging systems are essential to laboratories performing genomic and proteomic applications with larger sample sizes. The systems are customized for high resolution and sensitive imaging of DNA & protein gels using a wide variety of fluorescent dyes and conventional stains.

Gel imaging is enhanced, with a large 15.6" integrated touch-screen computer, a unique Slide2Hide door, and a Thin-Line Transilluminator with a large 25 x 26 cm illuminated area. The UVP GelStudio PLUS *touch* is a touch-screen operated system. This stand-alone system is also available as a PC-controlled version, the UVP GelStudio PLUS. These systems were designed for limited exposure to UV radiation; an integrated UV Protection Shield helps maximize protection from UV radiation. Automation features help improve laboratory workflow and efficiency. UVP GelStudio PLUS systems utilize VisionWorks® software which includes templates, preset capture settings, and many analysis features.

With all of these advanced features in one imaging system, the UVP GelStudio PLUS guarantees top image quality and data accuracy, elevating your research to the next level.



UVP GelStudio PLUS UVP GelStudio PLUS *touch*

Setting the Standard in Gel Imaging.



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15.6"



UV



Slide2Hide



eLITE



UV

Designed for laboratory efficiency and ease-of-use.

- **Efficient:** Large 15.6 inch touch-screen interface for clear visuals of fluorescent bands. Multitasking is simpler using multiple windows and for viewing several images.
- **Optimized:** Thin-Line Transilluminator with a 25 x 26 cm imaging area for multiple gels and various sizes. Lighting is optimized for uniformity and high-intensity across the image capture area.
- **Small footprint:** A stand-alone design maximizes the use of limited laboratory bench space. Reduced bench top interferences with a unique Slide2Hide door, which neatly slides away underneath the darkroom.

Application based software automation and quantitation.

- **Easy:** Quick and effortless image capture and enhancement.
- **Seamless:** Software automated templates allow users to preset and save capture settings for various applications, from one researcher to another.
- **Powerful:** All imagers include the full package VisionWorks® Software for complete image capture, quantitation, analysis, and data reporting features.

50 years of experience in imaging.

- **Trusted:** The creators of the UVP GelStudio PLUS imaging systems are referenced in thousands of publications and scientific articles worldwide.
- **Innovative:** Delivers the most advanced and reliable solutions for researchers.
- **Experienced:** Customized technical support and customer service teams.

Advanced camera, optics and light sources.

- **Sensitive:** 12 MP camera to capture high resolution, publication quality images.
Quick: Maximum light is captured with a wide aperture, f/1.2 lens. Exposure times are reduced, allowing quicker speeds for image capture.
- **Custom:** Upgradeable with the addition of the UVP eLITE Light Source for multispectral excitation of a wide range of fluorescent dyes from 400 - 800 nm.

Highest regard for protection from UV radiation.

- **Integrated:** UV Protection Shield is built-in to protect skin and eyes while performing preparative work on gels over the transilluminator.
- **Convenient:** Red UV On Indicator light to alert users to the presence of UV light.
- **Automatic:** Software timer shuts off UV sources when the system is not in use.





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Optimized Work Flows and Convenience

Multitasking, efficiency and ease-of-use is ensured with the large touch-screen interface, the Thin-Line Transilluminator and the Slide2Hide door.

The Thin-Line Transilluminator is slim and sits on a slide-out tray, designed for ease of preparative work on gels. Thin, long-life UV bulb technology delivers high-intensity and uniform transillumination for the large 25 x 26 cm imaging area. This is ideal for imaging multiple gels, and several colony plates of various sizes.

The UVP GelStudio PLUS *touch* has a 15.6" integrated touch-screen computer, which provides a large area for viewing multiple gel images and a clear visual of faint bands. The interface contains ample space for multi-tasking on several windows and programs. Large and visible application icons on the VisionWorks *touch* Software increase accessibility for improved and efficient work flows.

Additionally, the touch screen computer, which uses a Windows operating system, is wireless network capable and has a 512GB Solid-State Drive (SSD) to store large amounts of images, templates, and data. There are 7 USB ports for the use of additional accessories, adding to the unit's user-friendliness.

Designed for convenient benchwork.

The Slide2Hide door features an ergonomic design with smooth operation that limits bench-top interference. When tucked beneath the darkroom, access to the interior of the darkroom is easy and unintrusive.

Expand your range of applications with modular lighting options

The UVP GelStudio PLUS imagers expand to perform an even wider range of applications with the addition of accessories. Overhead white, green, red and blue LEDs come as standard in the series, and optional UV lamps can be installed in the system to provide overhead UV illumination to support excitation ranges from 250-800nm.

- Long-life UV lamp technology for minimum service requirements, independent of the number of times the transilluminator is turned on/off
- UV lamps are instant-on, with no need to warm-up
- A UV intensity switch with low and high settings is included, to provide optimal UV radiation for gel documentation or for preparative work





VisionWorks® Software

All versions of the UVP GelStudio and UVP GelStudio PLUS series imagers are operated by VisionWorks software. This guarantees powerful capture, quantitating and analysis.

Automation based on applications

Application-based template icons come preset and preloaded for common experiments.

One-touch workflows for drastically improved laboratory efficiency

For more complex application workflows, macros are used to automate several workflow actions so that they can be activated by one touch. Additionally, user accounts can easily be set up with passwords to save and protect user data.

Extensive image enhancement and analysis tools

Image enhancement and analysis features are included with all systems. Researchers can personalize their experiments and make use of enhancement features and annotation tools, e.g., for publication purposes. The software offers many powerful tools such as background subtraction, inversion, pseudocolor, compositing and more.

The extensive analysis features are optimized for accurate and reproducible results. Several custom tools are available, such as automatic lane and band detection, 1D analysis, area density, and colony counting. Once the quantitation results have been generated, reports are created to show thorough analysis such as; Molecular Weight (MW), Rf, band intensities and area density calculations. All data can be conveniently exported to Excel.





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UV Protection is a Priority

An integrated UV Protection Shield maximizes protection from UV radiation when working over the transillumination surface.

The UV Protection Shield can be neatly stowed away inside the darkroom when not required. It is easily pulled down for immediate use, and can be set at a custom angle according to the user needs. When the Thin-Line Transilluminator is rolled out, the shield protects users from UV while performing preparative work on gels. Additionally, the systems are equipped with both a red "UV On" indicator light and a UV safety switch that turns off the UV transilluminator when the darkroom is opened. This switch may be overridden to utilize the shield for preparative work on gels.

- Protected when working over the transilluminator surface
- The angle of the shield can be freely adjusted according to user needs
- Side angle design shields nearby personnel from UV radiation
- Convenient red "UV On" indicator light





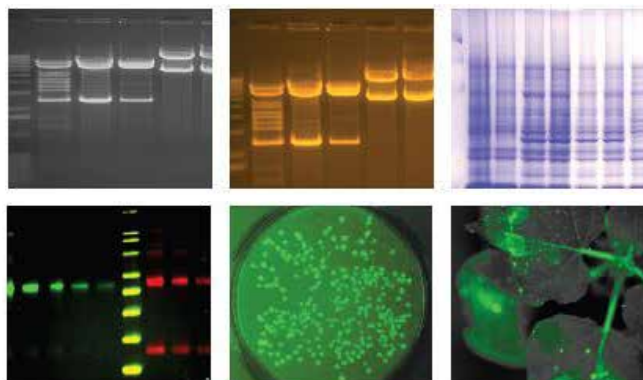
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Technical Data

Specifications/features	UVP GelStudio	UVP GelStudio PLUS
Light sources	<ul style="list-style-type: none"> Overhead: white, red, green and blue LEDs included Base lighting: Thin-Line Transilluminator, (302 nm) with High/Low intensity control Illuminated area: 16.8 x 21 cm 	<ul style="list-style-type: none"> Overhead white, red, green and blue LEDs included Base lighting: Thin-Line Transilluminator, (302 nm) with High/Low intensity control Illuminated area: 25 x 26 cm
Filter wheel	Five-position automated filter wheel	
Darkroom features	<ul style="list-style-type: none"> 13.3" integrated, multi-touch computer (UVP GelStudio <i>touch</i> only) Fold-down door Thin-Line Transilluminator in a pull-out tray UV On indicator light USB port (right panel of unit) 6 additional USB ports on "touch" systems only (back side of unit) Access port for optional UVP eLITE Light Source 	<ul style="list-style-type: none"> 15.6" integrated, multi-touch computer (UVP GelStudio PLUS <i>touch</i> only) Slide2Hide door Thin-Line Transilluminator in a pull-out tray UV On indicator light USB port (right panel of unit) 6 additional USB ports on "touch" systems only (back side of unit) Access port for optional UVP eLITE Light Source
Accessories included	<ul style="list-style-type: none"> Ethidium bromide filter VisionWorks® Software for image capture, enhancement and analysis (unlimited licenses) Flash drive with VisionWorks® Software (license free) UVP Fluorescent Focus Target UV Gel Tray UV Protection Shield Empty flash drive for data and image storage Keyboard and mouse (touch screen systems only) 	<ul style="list-style-type: none"> Ethidium bromide filter VisionWorks® Software for image capture, enhancement and analysis (unlimited licenses) Flash drive with VisionWorks® Software (license free) UVP Fluorescent Focus Target UV Gel Tray Integrated UV Protection Shield Empty flash drive for data and image storage Keyboard and mouse (touch screen systems only)
Dimensions: L x W x H	41 x 46 x 61 cm (16 x 18 x 24 inch)	43 x 47 x 82 cm (17 x 19 x 32 inch)
Wireless network capability	Wireless network capable, Wi-Fi, accessory for wired-to-ethernet connection available	Wireless network capable, Wi-Fi, accessory for wired-to-ethernet connection available

Applications

- Multiplex fluorescence
- RGB
- DNA gels
- Protein gels
- Fluorescent dyes
- Colorimetric imaging
- Colony counting





"Your partner in scientific discovery"

GeneBio Systems is a dedicated team of specialists committed to providing high-performance and cost-effective products to the scientific community. Our mission is to support laboratory needs in all aspects of Molecular and Cellular Biology for both clinical and academic research. With a focus on serving some of the most research-intensive institutions in Canada, we have established ourselves as a trusted provider of laboratory products.

Since our inception in 2011 in Toronto, Ontario, GeneBio Systems has experienced rapid growth within the biotechnology industry. Over the past decade, we have served researchers and scientists throughout Canada and are now expanding into the United States of America. We pride ourselves on our ability to meet and exceed the evolving needs of our customers by consistently delivering innovative and cutting-edge solutions.

Our commitment to providing exceptional customer service and support, combined with our expertise in the field, has earned us a reputation as a leader in the industry. At GeneBio Systems, we are dedicated to helping our customers achieve their research goals by providing the highest quality laboratory products and services.





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Specialists in Economical Quality Lab Supplies



Pushing the boundaries of what's possible - with GeneBio Systems



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