

gel documentation

HIGH PERFORMANCE

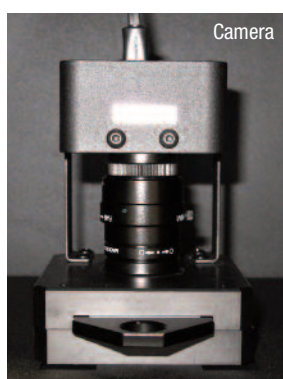
The omniDOC systems offer high performance gel documentation and analysis at affordable costs. By providing many of the features incorporated within the highest specification systems, but without the added price premium, each omniDOC system presents a simple but sophisticated imaging solution. A high resolution 5 mega pixel camera (CMOS sensor for improved light sensitivity) with slide-out UV transilluminator, and optional blue epi-illumination module and white light table, makes the omniDOC suitable for imaging most fluorescent and colorimetric gels, while a USB port requires a cable to connect the dark room assembly to an external PC for control. Imaging applications are made easy by a pre-focused camera that requires little or no manual adjustment, while simple one-click image acquisition and analysis software guides the user through every step of the gel documentation process. A front LED indicator panel reveals at a glance the light source in use, whereas a viewing screen with universal filter and spring-loaded cover facilitates safe and convenient gel inspection. All omniDOCs are constructed from corrosion resistant ABS and feature a viewing pane with universal amber filter for gel inspection, which may be covered by a spring-loaded panel during documentation.



OMNIDOC

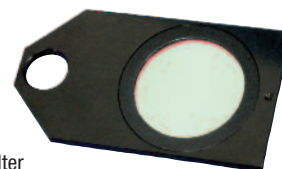
NEW

- PRE-FOCUSED 5 MEGA PIXEL CAMERA WITH AUTO-EXPOSURE FOR ALMOST INSTANTANEOUS HIGH RESOLUTION GEL IMAGING; CMOS SENSOR FOR IMPROVED LIGHT SENSITIVITY
- 6MM LENS, F1.2 APERTURE SIZE, WITH MANUAL ADJUSTMENT
- INTERCHANGEABLE FILTER SLIDE – 620NM ETHIDIUM BROMIDE FILTER AS STANDARD; 520, 560 AND 580NM FILTER OPTIONS FOR RUNSAFE, SYBR STAIN AND OTHER FLUORESCENCE APPLICATIONS
- INTERNAL WHITE LED – HELPS GEL POSITIONING AND FOCUSING
- SLIDE-OUT 312NM TRANSILLUMINATOR
- LARGE 21x26CM FILTER AREA



Camera

- High resolution 5MP camera with CMOS sensor for enhanced light sensitivity
- Lens: focal length 6mm; aperture size F1.2; autofocus
- Filter slide with four filter options to perform an extensive range of fluorescence applications



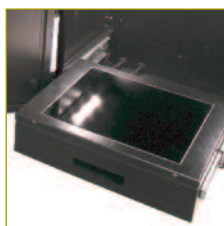
Filter

- Filter slide with four interchangeable filter options:
- 620nm filter (standard) – EtBr, Gel Red & SafeView Classic
- 520nm filter (SYBR) – Gel Green, Midori Green, run- SAFE, SYBR Green I & II, SYBR Gold & SYBR Safe
- 560nm filter (yellow) – as per 520nm filter but also including SYPRO Orange
- 580nm filter (orange) – EtBr, Gel Green & Red, Safe- View Classic; SYBR Green I & II, SYBR Gold & Safe; SYPRO Orange & Ruby



Typical Applications

Documentation and analysis of DNA, Safe Stained and Protein gels



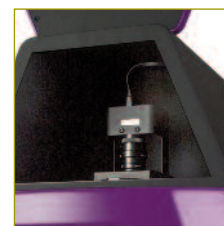
DNA – use the slide-out UV transilluminator to capture images of DNA gels stained with EtBr and SYBR dyes



Blue light – LED epi-illumination module allows visualisation of some stains with better clarity and without DNA damage – e.g. runSAFE



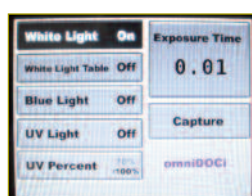
White light table – use plug-in white light table to view coomassie blue and silver stain protein gels; may also be used to view tissue slides and autoradiographs



Autoradiographs – high resolution 5MP camera captures images in high detail, especially when scrutinising separation between closely located bands or spots

WIRELESS CONNECTIVITY

The omniDOC-i shares all of the same features of the standard omniDOC, but with the added benefit of wireless connectivity to a remote laptop or tablet. Simply install the omniDOC image acquisition and analysis software on a laptop or tablet, place the gel on the transilluminator or white light table within the darkroom, and then begin image capture, using your preferred excitation source and filter, either by 'pressing' the tabs on the omniDOC's front panel colour touchscreen, or by following the prompts within the software on your laptop or tablet. Once image acquisition is complete the gel may be analysed immediately using the complimentary analysis software included, or saved for later to perform analysis at a more convenient time and place. The software is downloadable as an app to iPad, and Windows and Samsung Android tablets to provide full touch-screen remote control, making the omniDOC-i probably the most portable and versatile imaging system on the market.



• 3.5" 64K colour TFT display shows at a glance the excitation source in use, and provides full manual touchscreen control of the excitation source, UV intensity and exposure time.

- WHITE LIGHT TABLE AND BLUE LIGHTS ALLOW EASY SWITCHING BETWEEN ETHIDIUM BROMIDE, SAFE STAINED AND PROTEIN GELS
- WI-FI CONNECTION FOR WIRELESS REMOTE CONTROL AND IMAGE TRANSFER TO COMPLIMENTARY
- USB PORT FOR PC CONNECTIVITY

Technical Specifications

	omniDOC	omniDOC-i
UV TRANSLUMINATOR	312nm, 21x26cm (WxL); 6x8W TUBES	
RESOLUTION	5 MEGA PIXELS (2592x1944 PIXELS MAX)	
SENSOR	CMOS, 1/2.5"	
LENS	5MM FOCAL LENGTH; APERTURE F1.2	
IMAGE BIT-DEPTH SENSOR	12-BIT (0-4095 GREY LEVELS)	
FILTER CAMERA	620nm EtBr (STANDARD); OPTIONAL 520, 560, 580nm FILTERS	
IMAGE STORAGE	PC OR LAPTOP	LAPTOP, PC OR IPAD, AND WINDOWS®, SAMSUNG ANDROID TABLETS
CONNECTION TO OPERATING DEVICE	USB TO PC	WI-FI TO PC OR TABLET
OPERATING SYSTEM REQUIREMENTS FOR SOFTWARE	WINDOWS® 7 (64BIT & 32BIT) / XP / VISTA	
DARK ROOM ASSEMBLY DIMENSIONS	410 x 405 x 570mm (W x D x H)	
FRONT PANEL DISPLAY	LED	3.5" 64K COLOUR TFT DISPLAY; TOUCHSCREEN
VIEWING WINDOW	560nm UNIVERSAL ORANGE FILTER	
WHITE LIGHT	6x1W LED (STANDARD) FOR GEL POSITIONING	
WHITE LIGHT TABLE (OPTIONAL)	21x26cm FILTER; CONNECTS INTERNALLY TO DARKROOM	
BLUE LED EPI-ILLUMINATION MODULE (OPTIONAL)	EXCITATION WAVELENGTH 470nm; CONNECTS INTERNALLY TO DARK ROOM	
SAFETY	SAFETY INTERLOCK SWITCH ON FRONT DOOR PANEL; DISCONNECTS UV TRANSLUMINATOR ON OPENING; COMPLIES WITH CE, FCC STANDARDS	
USB PORT	FOR PC CONNECTION	FOR UPDATES AND MAINTENANCE
WI-FI FORMAT	-	WIRELESS N, WIRELESS G
POWER RATING	DUAL VOLTAGE: 110-230 VAC	
WEIGHT	25kg	

omniDOC IMAGE CAPTURE AND ANALYSIS SOFTWARE – use the included software to...

Acquire, store and manipulate images	Analyse, document and quantify gels
Use intuitive touchscreen control for image acquisition in a few simple steps	Following image acquisition use the intuitive touchscreen control software for analysis
Adjust the exposure time, altering the UV intensity or manipulating the iris on the camera if required	Load the newly acquired image, or select one stored previously in TIFF, JPEG, BMP or GIF image format
Select your light source: UV, blue or white light	Select the gel or dot blot type from one of four options
Use Toolbox function to change default settings for excitation source & exposure time, or apply advanced features like saturation detection & date stamp	'Tap and drag' rectangular boxes on your tablet to define the sample lanes to be analysed
Image Freeze – minimise UV damage nucleic acid gels by 'freezing' the gel image and switching off the transilluminator ahead of image capture or printing	Set the level of sensitivity and define the base line for subtraction
Acquire and save image for...	Perform density analysis...
Analysis	And then molecular weight analysis; use software to save as an image file format of your choosing or export into Microsoft Excel as a CSV file for further data analysis

ORDERING INFORMATION

OMNIDOC	omniDOC Gel Documentation System with 620nm (EtBr) emission filter & 312nm UV transilluminator*	
OMNIDOCSAFE	omniDOC plus Blue LED Epi-illumination Module (OMNIDOC-BL), and 520, 560 & 580nm filters (OMNIDOC-SYBR, -AF560 & -AF580)*	
OMNIDOCPRO	omniDOC plus White Light Table (HPDOC-WLT)*	
OMNIDOC-PROSAFE	omniDOC plus Blue LED Epi-illumination Module (OMNIDOC-BL), and 520, 560 & 580nm filters (OMNIDOC-SYBR, -AF560 & -AF580); and White Light Table (OMNIDOC-WLT)*	
OMNIDOC-i	omniDOC-i Gel Documentation System with 620nm (EtBr) emission filter & 312nm UV transilluminator†	
OMNIDOC-iSAFE	HPDOC-i plus Blue LED Epi-illumination Module (OMNIDOC-BL), and 520, 560 & 580nm filters (OMNIDOC-SYBR, -AF560 & -AF580)†	
OMNIDOC-iPRO	HPDOC-i plus White Light Table (OMNIDOC-WLT)†	
OMNIDOC-iPROSAFE	omniDOC-i plus Blue LED Epi-illumination Module (OMNIDOC-BL), and 520, 560 & 580nm filters (OMNIDOC-SYBR, -AF560 & -AF580); and White Light Table (OMNIDOC-WLT)†	
OMNIDOC-WLT	Optional White Light Table	OMNIDOC-AF580 Amber Filter, 580nm
OMNIDOC-BL	Optional Blue Light modules	OMNIDOC-AF560 Amber Filter, 560nm
OMNIDOC-SYBR	Optical SYBER Green Filter	OMNIDOC-F1 Viewing window, Amber Filter, 560nm (Supplied as standard)
OMNIDOC-EB	Optical EtBr Filter (Supplied as standard)	

*Requires a PC or laptop with USB cable; †Requires a PC, laptop or tablet with Wi-Fi connection