Cleaver Scientific Ltd

EXPERTS IN ELECTROPHORESIS

FEATURES: OMNIDOC & OMNIDOCi

- 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 with 620nm ethidium bromide filter as standard; 520, 560 and 580nm filter options available for runSAFE, SYBR stain and other fluorescence applications

- Viewing pane with universal amber filter for gel inspection, which may be covered by a spring-loaded panel during documentation

- Internal white LED – aids gel positioning and focusing

- Slide-out 312nm transilluminator; uses optional plug-in white light table for coomassie, silver-stain and other colorimetric gels

- Large 21x26cm filter area

- Accessory white light table and blue lights allow easy switching between ethidium bromide, safe stained and protein gels

- Dark room assembly with corrosion resistant ABS construction

- Safety switch – prevents accidental UV exposure when opening front door panel

- Power on-off switch

omniDOC and omniDOCi

Two new systems for affordable, high performance gel documentation and analysis

The omniDOC is the first of two new systems from Cleaver Scientific offering high performance gel documentation and analysis at a relatively low cost. By providing many of the features used by leading gel documentation brands, but without the added price premium, each omniDOC system presents a simple but sophisticated imaging solution for most laboratories. A high resolution 5 mega pixel camera 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.

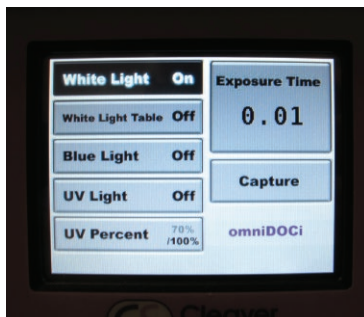omniDOCi wireless remote control possible through multiple portable devices

omniDOCi

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.

omniDOCi

The omniDOCi 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 touchscreen remote control, making the omniDOCi probably the most portable and versatile imaging system on the market.

OMNIDOC AND OMNIDOC-i APPLICATIONS

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

Dot-blots – use the omniDOC software to acquire and analyse nucleic acid dot blots

OMNIDOC IMAGE CAPTURE AND ANALYSIS SOFTWARE

Use the complimentary omniDOC software supplied 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

Camera

- High resolution 5MP camera with CMOS sensor for enhanced light sensitivity

- Lens: focal length 6mm; aperture size F1.2; autofocusing

- 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, runSAFE, 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, SafeView Classic; SYBR Green I & II, SYBR Gold & Safe; SYPRO Orange & Ruby

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 (OMNIDOC-WLT)*
OMNIDOCPRO-SAFE	OMNIDOC plus Blue LED Epi-illumination Module (OMNIDOC-BL), and 520, 560 & 580nm filters (OMNIDOC-SYBR, -AF560 & -AF580); and White Light Table (OMNIDOC-WLT)*
	*Requires a PC or laptop with USB cable
OMNIDOCi	Omnidoc-i Gel Documentation System with 620nm (EtBr) emission filter & 312nm UV transilluminator†
OMNIDOCiSAFE	OMNIDOC-i plus Blue LED Epi-illumination Module (OMNIDOC-BL), and 520, 560 & 580nm filters (OMNIDOC-SYBR, -AF560 & -AF580)†
OMNIDOCiPRO	OMNIDOC-i plus White Light Table (OMNIDOC-WLT)†
OMNIDOCiPRO-SAFE	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)†
	†Requires a PC, laptop or tablet with Wi-Fi connection

ACCESSORIES for OMNIDOC & OMNIDOC-i	
OMNIDOC-WLT	Optional White Light Table
OMNIDOC-BL	Blue LED Epi-illumination Module
OMNIDOC-EB	Replacement EtBr filter, 620nm (supplied as standard)
OMNIDOC-SYBR	SYBR Filter (520nm)
OMNIDOC-AF580	Orange Filter (580nm)
OMNIDOC-AF560	Yellow Filter (560nm)
OMNIDOC-F1	Replacement viewing window, Yellow Filter, 560nm (supplied as standard)

TECHNICAL SPECIFICATIONS

	OMNIDOC	OMNIDOC-i
UV Transilluminator	312nm, 21x26cm (WxL); 6x8W tubes	
Resolution	5 mega pixels (2592x1944 pixels maximum)	
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® and 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 dark room	
Blue LED Epi-illumination Module (optional)	excitation wavelength 470nm; connects internally to dark room	
Safety	Safety interlock switch on front door panel; disconnects UV transilluminator 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: 110-230VAC	
Weight	25kg	

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