



**Cleaver**  
Scientific Ltd

EXPERTS IN ELECTROPHORESIS

**GEL  
DOCUMENTATION**

**TYPICAL  
APPLICATIONS**

Documentation of  
analysis of DNA, Safe  
Stained and Protein gels

## 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.



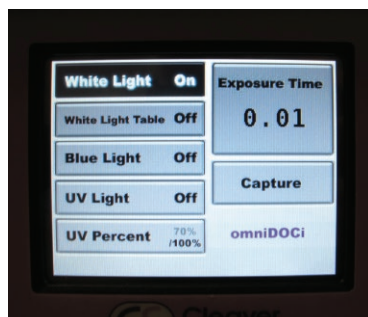


omniDOCi wireless remote control possible through multiple portable devices

## FEATURES:

### OMNIDOCi ONLY

- USB port for PC connectivity in omniDOC, and used for maintenance and installation of updates in omniDOCi
- Wi-Fi connection for wireless remote control and image transfer to complimentary image acquisition and analysis software downloadable as an App (in omniDOCi models only) or supplied on disc for installation onto a laptop or PC (omniDOC and omniDOCi)



#### 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

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

## 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 |



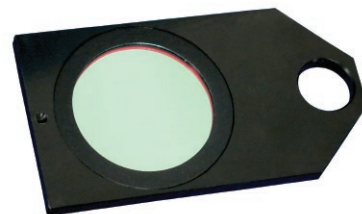
### Camera

- High resolution 5MP camera with CMOS sensor for enhanced light sensitivity
- Lens: focal length 6mm; aperture size F1.2; 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, 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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