

runDOC

Gel documentation for real-time horizontal electrophoresis

runDOC is a portable, lightweight gel documentation system designed exclusively for the runVIEW™ real-time horizontal electrophoresis system (Pg 28). runDOC comprises a dataroom hood and 12.1 megapixel digital camera to capture images of runVIEW™, and EtBr- and SYBR-stained gels. The runDOC dataroom is placed directly over the runVIEW™ gel tank located on the runVIEW™ base unit, which contains a blue LED gel illuminator. The blue LED illuminator provides the excitation source for the DNA gel located within the tank, and following excitation the light emitted is then visualised using either one of the bluVIEW lid options supplied with runVIEW™ or the runDOC filter slide. runDOC has a small footprint area, occupying minimal space within the laboratory.

TECHNICAL SPECIFICATION	
Camera	Lens
Type	5x optical / 4x digital zoom DIGIC-5 processor
Effective Pixels	12.1MP
Image Resolution	640x480 up to 4000x3000
Sensor	1/1.7" type high sensitivity CMOS
File Format	RAW, JPEG
Computer Interface	USB 2.0 Hi-speed (mini-B-jack)
Video Out	NTSC / PAL
General	
Storage Media	8GB SD Memory Card
Weight / Dimensions (WxDxH)	0.8kg / cm
Power	Rechargeable Li-Ion battery and plug-in charger Optional mains cable charger available
Laptop requirements	1.8GHz Pentium® IV or equivalent AMD Athlon® processor; 512MB memory; operating system Windows® XP SP3 onwards; 1GB storage and CD-ROM drive; 1 USB port 2.0; video resolution: 1280 x 800

Camera specification may change.

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FOR MORE INFORMATION

FEATURES:

- Gel documentation system designed exclusively for runVIEW™
- Lightweight dataroom hood fits quickly and easily over gel tank and base unit, allowing gels to be imaged as the bands migrate in real-time or at the end of the electrophoresis run
- Extractor fans in the bluVIEW lid and runDOC dataroom hood keep the gel free of condensation when imaging both during and after electrophoresis
- High resolution 12.1 megapixel camera with 8GB memory card for storage of images in RAW and JPEG formats
- Interchangeable filter slide and bluVIEW filter options for full flexibility: amber filter for runSAFE, SYBR and green fluorescence; and orange filter for EtBr and red fluorescence
- runDOC may be also used like an ordinary gel documentation system by placing the gel tray directly on the runVIEW™ base station, which acts as a transilluminator
- Complete system with laptop and software available



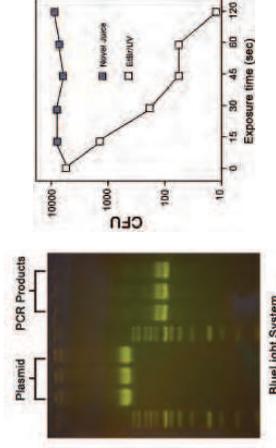
ORDERING INFORMATION

Code	Description
CSL-RVGELDOC	runVIEW™ gel Documentation hood with 12.1MP camera
CSL-RVGELDOCSYS	runVIEW™ gel Documentation hood with camera, Laptop & 1D Analysis Software
RVGELDOC-F1	Orange Filter for runDOC (Ethidium Bromide)
RVGELDOC-F2	Amber Filter for runDOC (runSAFE and SYBR stains)
CSL-CAMCHARGER	Optional mains charger cable for 12.1MP camera
CSL-RVSTATION	runSTATION complete with CSL-RVGELDOC & CSL-RVMSCHOICETRIO (Pg 28)
CSL-RVGDCOMPLETE	RVGDCOMPLETE includes RVGELDOCSYS and RVMSCHOICETRIO

FEATURES:

- Safe – all four runSAFE stains have ultra-low toxicity (LC>5000mg/kg) and lack cell permeability
- Convenient – each stain is supplied as a ready to use 6x Loading dye; simply add 1 part stain to 5 parts DNA, mix and load your gel
- Fast – no time-consuming post-staining or de-staining of gels is required.
- Sensitive – very low background staining of the gel; detects as little as 0.2ng DNA per band
- Improved cloning efficiency – does not damage or mutate DNA, and does not affect downstream cloning applications such as ligation
- Flexible – each stain may be used with Blue or UV light
- runVIEW™ compatible – all four stains are perfect for use with the runVIEW™ real-time horizontal gel electrophoresis system supplied with bluVIEW amber filter lid (page)

The runSAFE Range - Less DNA damage, improved cloning efficiency



Slower migrating species, indicative of a linear or relaxed circular vector, resulting from DNA nicking or strand breaks, are significantly reduced in DNA plasmid mixed with runSAFE and exposed to blue light. The concentration of nicked DNA plasmid increases significantly after 8' of exposure to EtBr and UV irradiation.

The runSAFE Range

Four safe stains for real-time horizontal electrophoresis

The runSAFE Range comprises four non-mutagenic stains that produce instant visualisation of DNA bands upon irradiation with blue light or UV in agarose or polyacrylamide gels. Each stain is conveniently supplied in a 6x loading dye which is mixed with 5 parts double-stranded DNA before loading onto an agarose or polyacrylamide gel. The individual colour constituents within each loading dye track electrophoresis run progression, and indicate the extent of band separation and resolution by co-migrating with DNA bands of known molecular size, which varies according to the gel percentage. All four stains are non-toxic, safe for the environment and can be disposed of in the regular laboratory waste without using expensive decontamination methods. Each stain is sensitive and binds DNA to detect as little as 0.2ng DNA per band within a gel; while gel imaging is best performed using the amber emission filter found of the bluVIEW lid or runDOC filter slide. The runSAFE Range is comprised as follows:

- runSAFE – general purpose stain for DNA ranging from 50bp markers to large super-coiled plasmid
- runSAFE-PLUS500 – for DNA larger than 500bp in size;
- runSAFE-2000 – for DNA vectors and inserts ranging from 500-2000bp;
- runSAFE-500 – for small DNA fragments, PCR products, sequence tracts and primers less than 500bp.

ORDERING INFORMATION

Part Number	Description	Tracking Dyes	Size Range
CSL-RUNSAFE	runSAFE stain, 1ml	Bromophenol Blue, Xylene Cyanol FF, Orange G	50bp – 20kb
CSL-RUNSAFE-PLUS500	runSAFE-PLUS500 stain, 1ml	Bromophenol Blue, Xylene Cyanol Blue	>500bp
CSL-RUNSAFE-2000	runSAFE-2000, 1ml	Xylene Cyanol Blue, Orange G	500-2000bp
CSL-RUNSAFE-500	runSAFE-500, 1ml	Orange G	<500bp

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