EZ-runVIEW

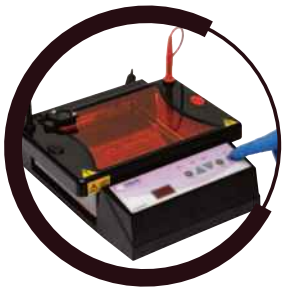
Cleaver Scientific "safe" series represents a safer alternative to the use of UV illumination and ethidium bromide, both of which are known to have harmful mutagenic effects.

runVIEW includes everything* required to perform horizontal real-time gel electrophoresis with high resolution capability within a single compact bench top unit. The optional gel documentation system fits directly over the base unit and gel tank for imaging at the end of the electrophoresis run. runVIEW offers exceptional value, costing 30-50% less than individual components; gel tank, power supply and transilluminator

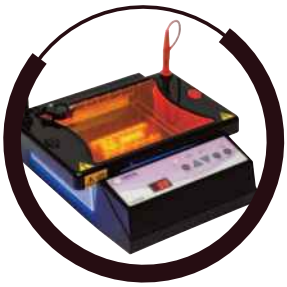
* except chemicals and reagents

runVIEW is an innovative system that combines blue LED lighting and an inbuilt power supply to create a real time electrophoresis system giving you near instant verification of results. Perfect for saving time in quick sample checks or for teaching the principles of electrophoresis.

place the gel tank and agarose gel onto the base station



load samples as with the standard MSCHOICE tank



fit the bluVIEW lid and start the run to observe band in real time

The original runVIEW CHOICE consists of a multiSUB CHOICE gel chamber with special bluVIEW lid, containing an orange spectral emission filter within its viewing pane, plus a base unit with integrated power supply and blue LED gel illuminator.

Track DNA without harmful UV

UV light can cause detrimental effects to the structure of DNA, meaning DNA extracted from UV imaged gels have significantly lower yields in downstream applications such as cloning and sequencing. Blue light, at a higher wavelength massively increases downstream yield in comparison to UV when used for gel visualisation. Not only does the runVIEW system allow increased downstream reliability, it also protects the user from exposure to UV light, and provides a real time view of DNA migration, meaning constant checks using gel documentation systems are no longer required.

No expensive commercial gels

runVIEW works with standard EtBr, SYBR Green and SYBR Safe gels cast within the 15x7, 15x10 or 15x15cm CHOICE gel trays, and therefore does not require expensive precast gels and accessories.

A self-contained system

The base unit, which houses the in-built power supply and blue LED gel illuminator, is compact, dual-voltage and portable, and allows electrophoresis, gel visualisation and extraction to be performed at the bench, without the inconvenience of having to transport gels to a darkroom elsewhere within the laboratory.

runVIEW

runVIEW is also available in smaller sizes to convert standard Cleaver Scientific multiSUB agarose gel tanks into runVIEW real-time gel visualisation systems.

Three models comprise the runVIEW series, the original runVIEW™ CHOICE, plus runVIEW™ MINI and MIDI. All systems benefit from the blue light illumination of fluorescently stained agarose gels to allow users to view the size fractionation of nucleic acids in real-time. While runVIEW™ CHOICE features a power supply integrated within the base unit, for runVIEW™ MINI and MIDI, an adjustable blue-light illuminator platform accommodates both the MINI and MIDI electrophoresis tanks. Band visualisation is achieved through the corresponding lid containing an orange spectral emission filter. Each lid remains free of condensation through a built in extractor fan.

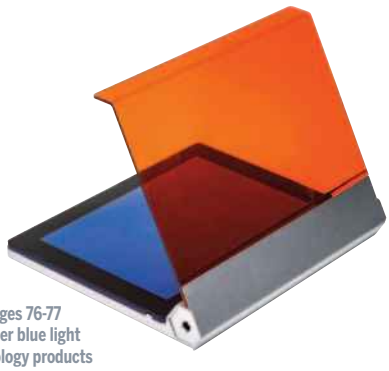
KEY FEATURES

These units are primarily designed to facilitate Real-time size fractionation and recovery of nucleic acids:

- Power supply integrated within the base unit – adjustable in precise 1V or 1mA increments to a maximum 150V or 300mA constant voltage or current output; timer function to 999 minutes for extended runs
- Specialist combs for specialist applications - double-sided 1mm preparatory combs (1-/2-sample and 4-/16-sample standard) included for nucleic acid recovery, plus four multichannel compatible 20-/28-sample combs for rapid screening of nucleic acids from 96-well thermal cycler blocks and microtitre plates. Extra thick 3mm preparatory combs also included for enhanced DNA recovery.

CSL-RVMSCHOICE

SEE PAGE 26 FOR runSAFE



See pages 76-77 for other blue light technology products

Technical Specifications

runVIEW CHOICE Viewing Dock

Blue Light Wavelength	470nm	Timer	1-999 minutes with alarm
Voltage/ Resolution	25-150V / 1V	Safety Device	No load detection
Current/ Resolution	300mA / 1mA	Operating Temperature	Ambient to 40°C
Power	30W	Dimensions	293 x 220 x 80 mm
Operating Mode	Constant Voltage or Current	Rated Voltage	100-240V, 50/60Hz

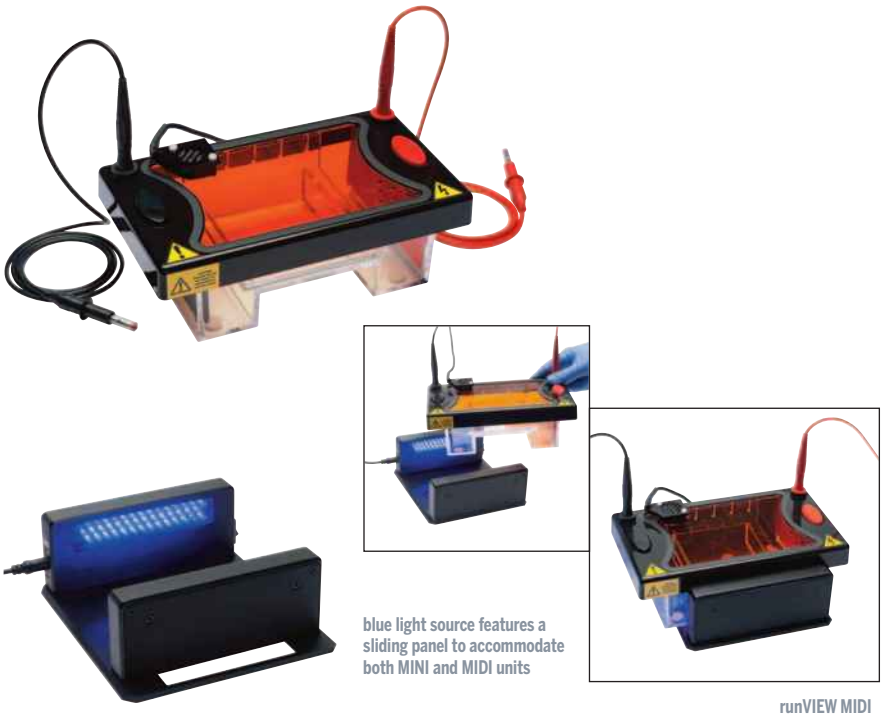
runVIEW Gel System

Gel Dimensions (W x L)	15 x 7, 15 x 10 and 15 x 15cm	Combs	2x 1-sample / 2-sample preparatory; Included Double-sided combs,
Unit Dimensions (W x D x H)	26.5 x 17.5 x 9cm		2x 4-sample preparatory / 16-sample combs; 4x 20- /28-sample
Buffer volume	500ml		multichannel compatible screening (1mm); plus 2x 4- and
runVIEW Lid Design	Orange spectral emission filter with		2x 6-sample preparatory with loading guides (3mm)
	condensation-free viewing pane	Comb Thickness	1mm, 3mm

Ordering Information

CSL-RVMSCHOICE7	**runVIEW® CHOICE** complete with 15 x 7cm gel tray and 1x 4/16MC and 1x 20/28MC 3mm preparatory, 2x 4/16MC sample and 4x 20/28MC 1mm thick
CSL-RVMSCHOICE10	**runVIEW® CHOICE** complete with 15 x 10cm gel tray and 1x 4/16MC and 1x 20/28MC 3mm preparatory, 2x 4/16MC sample and 4x 20/28MC 1mm thick
CSL-RVMSCHOICE15	**runVIEW® CHOICE** complete with 15 x 15cm gel tray and 1x 4/16MC and 1x 20/28MC 3mm preparatory, 2x 4/16MC sample and 4x 20/28MC 1mm thick
CSL-RVMSCHOICETRIO	**runVIEW® CHOICE** complete with 15x7cm, 15x10 & 15x15 gel tray and 1x 4/16MC and 1x 20/28MC 3mm preparatory, 2x 4/16MC sample and 4x 20/28MC 1mm thick
CSL-RVSTATION	**runSTATION** complete with RVGELDOC and RVCHOICETRIO
CSL-RVBSBVLID	**runVIEW Base Station** & bluVIEW Lid

* runVIEW choice only



blue light source features a sliding panel to accommodate both MINI and MIDI units

runVIEW MIDI

KEY FEATURES

RunVIEW™ MINI and MIDI are ideal for quick checks of low to medium numbers of samples following PCR and cloning.

- runVIEW™ CONVERTER package - with emission filter lid and blue light illuminator, to allow standard MSMINI and MSMIDI units to be converted to real-time electrophoresis
- runVIEW™ STANDARD package – includes blue light illuminator, and runVIEW™ MINI or MIDI tank, for those users with their own power supply
- Blue light is completely safe to both operator and DNA alike, and results in improved cloning efficiency compared to UV
- Emission filter lid with built-in extractor fan enables condensation-free viewing of gels

Ordering Information

CSL-RVMSMINI-S	**CSL-RVBSBVLID-MINI plus MSMINIDUO tank** with 7x7 & 7x10cm trays, 1 set of casting dams and 2x 8-sample combs		
CSL-RVMSMIDI-S	**CSL-RVBSBVLID-MIDI plus MSMIDIDUO tank** with 10x7 & 10x10cm trays, 1 set of casting dams and 2x 16-sample combs		
CSL-RVBSBV- LID-MINI	runVIEW™ Base Station & bluVIEW lid for MS- MINI systems	CSL-RVBSBV- LID-MIDI	runVIEW™ Base Station & bluVIEW lid for MS- MIDI systems

runDOC

runDOC is a portable, lightweight gel documentation system with small footprint, designed exclusively for use with runVIEW CHOICE.

The runDOC is designed exclusively to fit and complement the runVIEW to provide a complete real-time electrophoresis and imaging system. It comprises a lightweight darkroom hood and a high resolution 24.1 megapixel digital camera to capture images of nucleic acid gels stained with for example Et-Br, SYBR and runSAFE.

Hood is positioned over the runVIEW tank and base unit to create a light-tight environment suitable for image capture

KEY FEATURES

- All-in-one system – The runDOC and runview provide a complete real-time electrophoresis and imaging system
- The 24.1 megapixels CMOS camera of the runDOC enables to capture high resolution publication quality images using the runview base as a transilluminator
- Versatile - Interchangeable filter slides and bluVIEW filter allow to capture images of DNA bands stained with a variety of safe stains such as runSAFE, SYBR green, Et-Br etc.

Technical Specifications

Camera	Canon EOS 2000D
Effective Pixels	Approx. 24.1 megapixels
Image sensor	22.3mm x 14.9mm CMOS sensor
Image Processor	DIGIC 7
Image Resolution	RAW: (RAW) 6000x4000
Lens	Canon EF/EF-S mount
Focal Length & Max. Aperture	18-55mm f/2.8-5.6
Shutter Speed	30-1/4000 sec
Storage Type	SD; SDHC, SDXC (UHS Speed Class 1 compatible)
Camera Filter	+3 close-up
runDOC Filer Slide	amber filter; orange filter
Wi-Fi / NFC	Bluetooth, NFC and Wi-Fi
Darkroom material	Ebony acrylic
Power	Rechargeable Li-Ion battery and plug-in main charger (optional)
Dimension (with camera)	410 x 492 x 240 (WxHxD)
Weight	3 Kg (with camera)
Rated Voltage	110V – 220V

** Please be aware that camera specification is subject to change*

Ordering Information

CSL-RVGELDOC	**runVIEW® Gel Documentation Hood** with 24.1 MP camera	**CSL-RVSTATION**	**runSTATION** complete with RVGELDOC and RVCHOICETRIO
CSL-RVGELDOCSYS	**runVIEW® Gel Documentation Hood** with camera, laptop & 1D Analysis Software	**CSL-RVGDCOMPLETE**	**runVIEW Package** including RVGELDOCSYS and RVCHOICETRIO
RVGELDOC-F1	Orange Filter for runDOC (Ethidium Bromide)	RVGELDOC-F2	Amber Filter for runDOC (runSAFE and SYBR stains)