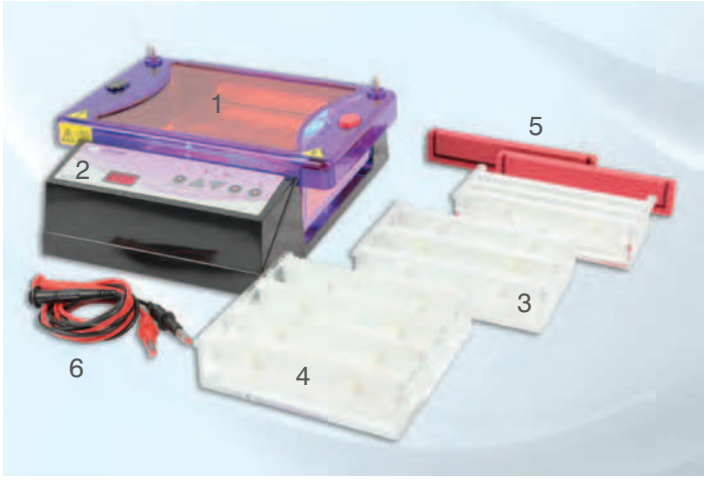
runVIEW – real-time horizontal gel electrophoresis system

- The most versatile, self-contained system on the market for real-time horizontal gel electrophoresis
- System includes everything except chemicals and reagents to run horizontal SYBR- and EtBr-stained gels in real-time
- Combines the flexibility and high resolution capability of the MSCHOICE system (pg 7) with the time- and space-saving convenience of having the power supply and gel illuminator integrated within one highly compact bench top unit
- Optional dark room with 10 megapixel digital camera fits directly over the base unit and gel tank to allow gels to be imaged either as bands migrate in real-time or at the end of the electrophoresis run
- Includes accessories for standard gel electrophoresis and for size fractionation and simplified real-time gel free DNA band extraction and purification



runVIEW components:
1. runVIEW tank with bluVIEW lid
2. Base unit with integrated power supply and blue LED gel illuminator
3. Blue-light transparent 15x7, 15x10 and 15x15cm gel trays
4. Combs
5. Casting dams
6. Cables

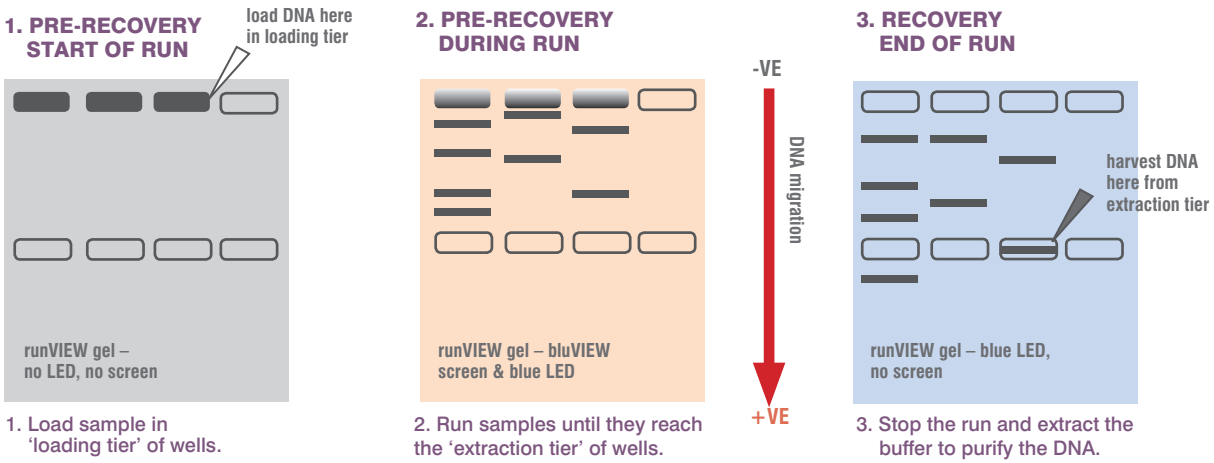
Real-time size fractionation and recovery of nucleic acids

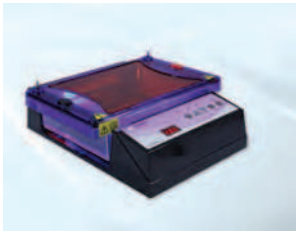
runVIEW is an innovative new system which can be used to maximise the efficiency of DNA recovery from EtBr and SYBR stained gels by minimising the number of steps involved in post-electrophoretic purification. runVIEW consists of a multiSUB™ MSCHOICE system with bluVIEW lid, containing an orange spectral emission filter within its viewing pane, and a base unit with integrated power supply and blue LED gel illuminator.

Simple DNA recovery

Using runVIEW is simple: first, cast a gel featuring two rows of wells with one matching pair of the preparatory combs supplied, before transferring the blue-light transparent gel tray to the MSCHOICE tank located on the base unit. Add sufficient buffer just to cover the gel, and remove the combs to load the DNA samples into the upper row of wells ('Loading' tier). Replace the lid to connect the MSCHOICE tank to the integrated power supply before applying the voltage and switching on the blue LED gel illuminator. Watch through the bluVIEW lid's viewing pane as the samples migrate in real-time to the second row of wells ('extraction' tier). Once the DNA bands of interest enter the 'extraction' tier, simply stop the power supply, remove the lid and harvest the DNA by pipette.

Using runVIEW





MSCHOICE tank with bluVIEW lid on base unit

Track DNA without harmful UV

Blue light is safe and has none of the detrimental effects of UV transillumination, including mutagenesis which can compromise cloning efficiency, while runVIEW's capacity to provide real-time visualisation of electrophoresis enables DNA to be tracked as it migrates through the gel. This allows the user to judge precisely when the band of interest is ready for extraction.

Save on time-consuming gel elution techniques

Running DNA into a well containing buffer effectively purifies the DNA of agarose, eliminating the need for time-consuming gel excision and purification techniques that also result in sample loss. Once harvested, the DNA needs only to be cleaned by a straightforward ethanol precipitation when it is ready for further digestion or ligation.

runVIEW base unit

No expensive commercial gels

runVIEW works with standard EtBr, SYBR Green and SYBR Safe gels cast within the 15x7, 15x10 or 15x15cm MSCHOICE 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.

Other benefits offered by runVIEW include:

- 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.
- Get real-time - existing MSCHOICE users may customise their system by purchasing the base station and bluVIEW lid.

Technical Specifications			
runVIEW 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	30 W	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 & 15 X 15cm	bluVIEW Lid Design	Orange spectral emission filter with condensation-free viewing pane
Unit dimensions (W x D x H)	26.5 X 17.5 X 9cm	Included Double-sided Combs	2x 1-sample / 2-sample preparatory; 2x 4-sample preparatory / 16-sample combs; 4x 20- /28- sample multichannel compatible screening
Buffer volume	500ml	Comb Thickness	1mm

Ordering Information	
CSL-RVMSCHOICE7	runVIEW system complete with 15 x 7cm gel tray, 1 set of casting dams and 8 double-sided combs
CSL-RVMSCHOICE10	runVIEW system complete with 15 x 10cm gel tray, 1 set of casting dams and 8 double-sided combs
CSL-RVMSCHOICE15	runVIEW system complete with 15 x 15cm gel tray, 1 set of casting dams and 8 double-sided combs.
CSL-RVMSCHOICETRIO	runVIEW system complete with 15 x 7, 15 x 10 and 15 x 15cm gel trays, 3 sets of casting dams and 8 double-sided combs
CSL-RVBSBVLID	runVIEW base station & bluVIEW lid.
CSL-RVGELDOC	runVIEW gel documentation hood with 10MP camera (camera specification on pg 65).