

New Products

Software for liquid handling platforms



Product: Software for Freedom EVO liquid handling platforms.

Name & Manufacturer: Freedom EVOware 2.2 from Tecan.

Technology: Freedom EVOware 2.2 extends the range of pipetting options by offering full support of the new 384-MultiChannel Arm (MCA384). This allows pipetting using 384 or 96 tips, as well as pipetting just a single row or column of wells. Nested disposable tips for reduced cost and flexibility will soon be available for the MCA, and the software already supports nested tips stored in either passive stacks on the worktable or in external Te-Stack modules.

Advantages: Freedom EVOware 2.2 maintains the same intuitive graphical user interface, offers greater flexibility and ensures full compatibility with the latest hardware modules – all without compromising on operating speed and process security.

More Information:

www.tecan.com/freedomevoware

PCR Kits



Product: PCR kits with dNTPs.

Manufacturer: Thermo Fisher Scientific.

Technology: All Thermo Scientific PCR and RT-PCR kits are now available with deoxynucleoside triphosphates (dNTPs), providing in one kit everything that is required for the amplification of DNA and RNA targets. Thermo Scientific PCR and RT-PCR reagents are available in kit or master mix formats, containing all the components required for DNA or RNA amplification, including specially developed enzymes, buffering components, ultrapure MgCl₂ and dNTPs. In the kit for-

mat, these components are supplied individually, offering flexibility for individual applications. In the master mix format, the components are pre-blended and supplied in a single vial.

Advantages: The inclusion of dNTPs in the PCR and RT-PCR kits saves time in the sourcing of components. All that is required is the addition of reaction-specific template and primers.

More information: www.thermo.com/gen

Digital CCD Camera



Product: "Rapid Readout" Digital CCD Camera.

Name & Manufacturer: ORCA-R 2 "Rapid Readout" Digital CCD Camera from Hamamatsu Photonics.

Technology: The ORCA-R2 has two scan speeds; a normal scan speed of 14MHz and a rapid scan speed of 28MHz which deliver full resolution 1.37M pixel images at 8.5 frames/second and 16.2 frames/second respectively. With binning, the ORCA-R2 has a maximum frame rate of 64.3 frames/second. Data output is via Firewire IEEE 1394b. The ER-150 CCD is enclosed in a hermetic vacuum-sealed head, the same as the previous ORCA-AG, but air-cooling has been improved to -35°C and the ORCA-R2 also comes with water-cooling connections as standard, for operation at -40°C for applications where low-level signals mean a tighter control of thermal noise is required.

Advantages: The ORCA-R2 is the camera of choice for a range of applications, such as fluorescence microscopy, where a balance of speed, sensitivity and resolution are essential.

More Information:

www.sales.hamamatsu.com

Sample Vials

Product: Sample Vials for Robotics.

Name & Manufacturer: Qalylvials R from Zinsser Analytic.

Technology: In automation any changes in height, diameter, thread design for vials and caps can cause problems. Although you may order from your long term supplier a special vial under the same catalogue number you have



been using for years, the vial may differ from shipment to shipment, as the supplier may have sourced them from different manufacturers and different countries, and your automatic system may break down because of that: it is essential that the dimensions, the shape and the thread of the vial are exactly the same from batch to batch. The Qalylvials R are available in clear and amber borosilicate glass with tested solid screw caps with a chemically resistant, elastic butyl-PTFE-liner. Standard volumes are 2, 4, 6 and 8ml.

Advantages: Qalylvials R are manufactured to high standards from borosilicate glass within very close tolerances. All vials are guaranteed always to be manufactured to the same drawings.

More Information: www.zinsser-analytic.com

Microplates



Product: Microplates 96 and 384 with high level of transparency.

Manufacturer: Eppendorf.

Technology: These Polypropylene Microplates 96 and 384 feature a uniquely high level of transparency, easy-to-read OptiTrack labelling matrix and RecoverMax well geometry for maximum sample recovery.

Advantages: The ultraclear wells of Eppendorf Polypropylene Microplates, combined with the OptiTrack high-contrast alphanumeric labelling, make sample and well identification up to 30 per cent faster and less error-prone compared with conventional polypropylene microplates. The RecoverMax well design minimises 'wicking' and well-to-well contamination, guaranteeing higher recovery rates for valuable samples, as well as outstanding mixing properties.

More Information:

www.eppendorf.com/microplates