CCD CAMERA

The FS92 features 9.19 million effective pixels in a Type 1 3388 x 2712 pixel array. A combination of high resolution and high sensitivity significantly increases the application options for the scientific user and OEM customer. As with all members of the FS range of cameras, a typical read noise of five electrons makes the FS92 a perfect choice for low-light applications including fluorescence and chemiluminescence imaging. And with the asymmetric pixel binning function, it's a highly effective detector in optical spectroscopy. The FS92 is Peltier cooled to a delta of -25°C below ambient and is available with either a monochrome or color sensor. By specifying the alternative rectangular body design for those particularly demanding applications, an additional -10°C cooling performance may be achieved.

Artemis

For info: +44-(0)-1603-740397 | www.artemisccd.com

qPCR PROBES

The PrimeTime Eco Probe and PrimeTime Mini LNA Probe provide new options for customers performing gene expression and genotyping experiments. The Eco Probe is delivered at a normalized yield of 2.5 nmoles, sufficient for approximately 500 reactions, bridging the space between the existing PrimeTime Mini qPCR Probe (0.5 nmole normalized yield, 100 reactions) and the 100 nmole synthesis scale (minimum guaranteed yield of 10 nmoles). If ordered with the option of an internal ZEN quencher, the double-quenched PrimeTime Eco Probe will generate less background noise, while increasing end point signal, to significantly boost quantitative polymerase chain reaction (qPCR) sensitivity and precision when compared to traditional single-quenched probes. The Eco Probe is available with a FAM/ZEN/IA Black FQ dye/quencher combination. When genotyping via PCR, it is often useful to be able to perform a few reactions using a small subset of probes, in order to test and consequently optimize LNA probe design.

Integrated DNA Technologies

For info: 800-328-2661 | www.idtdna.com

RECOMBINANT NUCLEOSOMES

New biotinylated histones and nucleosomes have been added to the expanding range of recombinant nucleosomes, purified nucleosomes, and full length histone proteins. The "tails" of histone proteins stick out, where they can be modified by a number of different histone acetyltransferases, methyltransferases, PARPs, and other epigenetic enzymes. Many of these enzymes modify very specific sites. AMSBIO's new line of biotinylated histone peptides have been developed for enzyme kinetic studies as well as for screening small molecular inhibitors of different histone methyltransferases in drug discovery and HTS applications. The major difference between AMSBIO recombinant nucleosomes made in *E. coli* and those purified from whole cells is that the recombinant ones are unmodified. *E. coli* and other bacteria do not have the enzymes to methylate or acetylate the histone proteins. AMSBIO nucleosomes purified from mammalian cells are supplied methylated or acetylated on most histone sites, making them suitable substrates for demethylases.

AMS Biotechnology

For info: +44-(0)-1235-828200 | www.amsbio.com

LARGE-VOLUME PLATES

A range of high-quality, large-volume microplates (5 mL, 7 mL, and 10 mL) have been designed to meet the special requirements of storage/transport applications in combinatorial chemistry, environmental, and food technology markets. Produced under class 10,000 clean room conditions from virgin polypropylene, each 24-well (10 mL) and 48-well (5 mL and 7 mL) plate contains no contaminants that may leach out and affect the samples being stored or transported. All these large volume plates can be heat sealed or capped with flexible polymer "cap mats" to enable high integrity storage of samples for prolonged periods at -80°C. The wells of each large volume plate are rectangular in shape with a 'v' bottom to facilitate easy sample concentration and recovery. Porvair large volume microplates are precisely manufactured to ANSI/SLAS-1 (2004) Footprint Dimensions making them fully compatible with automated liquid handling systems and other robotic sample processing equipment. Porvair large volume microplates are available in sterile or nonsterile versions.

Porvair Sciences

For info: +44-(0)-1978-666240 | www.porvair-sciences.com

HIGH THROUGHPUT PIPETTES

The Liquidator 96 is a bench-scale, 96-channel manual pipetting solution provides accuracy without forcing operators to contend with electronic systems or complex computer programming. The result is pipetting ease along with significant efficiency gains. Liquidator 96 allows pipetting in 96- and 384-well plates, polymerase chain reaction plates, 8- and 12-channel reservoirs as well as 96 deep-well plates. This enhanced handling speed represents a critical pipetting benefit, particularly when working with time-critical ELISA test procedures. Also, because Liquidator 96 works just like a manual pipette, it can be used by lab technicians at any experience level and still deliver reproducible results. Finally, as a personal pipetting system, Liquidator 96 fits any benchtop or laminar-flow cabinet making it suitable for cleanroom conditions.

Mettler Toledo

For info: 800-472-4646 | www.mt.com/liquidator