

Lab+Life SCIENTIST

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Particle size analysers

Laser diffraction continues to be the particle sizing method used across many industries and applications. The latest advances in laser diffraction are exemplified in the Malvern Mastersizer 3000, whose folded optics enable high performance to be achieved within a compact instrument.

The product can help users obtain robust and reproducible measurements using laser diffraction. It delivers high resolution and sensitivity across a measurement range that runs from 10 nm to 3500 μ m.

Malvern has also released the entry-level Mastersizer 3000E, for users who don't require all the features of the Mastersizer 3000. Both versions of the product feature intelligent software that makes them accessible to each and every user.

ATA Scientific Pty Ltd
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Portable scanner

Ziath has released the HandHeld portable scanner, providing users with the ability to immediately identify tubes and track samples when away from the lab. This includes manual picking from repositories, as well as effective recording when collecting samples in the field.

The scanner can be operated using one hand and incorporates a lightweight build and intuitive interface that's easy enough for anyone in the lab to use. Its portable nature is suitable for a number of underserved applications, including the generation of multiple pick lists for accurate tube selection, vial checking to confirm a sample is what it says it is and the ability to easily record samples in the field at the point of collection. Since the scanner is battery operated, users have the option to effortlessly enter data about specific samples as soon as they're scanned.

Users will gain full access to support, troubleshooting and customisation where required for easy integration into existing workflows.

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Tomographic optical imaging system

The InSyTe from Trifoil provides true 360° tomographic optical preclinical imaging. This enables researchers to perform in vivo imaging of small animals in a compact, powerful benchtop system. The capabilities match that of nuclear imaging modalities such as PET and SPECT.

The product allows the user to capture true 3D tomographic images by acquiring projection images from all around the animal. These images can be compiled to create detailed 3D reconstructions. The resultant tomographic images provide valuable insights into deep tissue phenomena with uniform sensitivity and resolution throughout the entire animal.

The system comes with a fully integrated inline X-ray CT. The CT enables a better understanding of the user's data through anatomical registration. CT has good soft-tissue performance, which is said to improve auto segmentation of the optical images. The system automatically co-registers optical and CT images for improved accuracy.

The InSyTe range also offers the nuclear imaging modalities SPECT and PET with X-ray CT.

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