

New Commercial Products

Announcements of new commercial products are published by the Journal of Applied Crystallography free of charge. The descriptions, up to 300 words or the equivalent if a figure is included, should give the price and the manufacturer's full address. Full or partial inclusion is subject to the Editor's approval and to the space available. All correspondence should be sent to the Editor, Dr A. M. Glazer, Editor Journal of Applied Crystallography, Clarendon Laboratory, University of Oxford, Parks Road, Oxford OX1 3PU, England. The International Union of Crystallography can assume no responsibility for the accuracy of the claims made. A copy of the version sent to the printer is sent to the company concerned.

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Photek win SMART Award

Every year the UK Government organizes, through the Department of Trade and Industry, a SMART competition to find and subsequently fund the best small-company R&D proposals. These are judged on 'degree of innovation', business practicality, likely rate of return etc.

Photek, which was founded in October 1991, has just won its third SMART Award. An earlier SMART Award to Photek was used to develop an Ultra-Fast Photomultiplier, which is now becoming accepted in premier scientific research laboratories worldwide. The latest SMART Award is for the development of an Electronic Zoom and Roam (EZAR) camera modelled upon the human eye. The EZAR system will consist of a zoom and roam image intensifier and a standard video camera. In wide-field mode, the complete scene will first be presented to the viewer on a TV screen. Using a computer mouse or joystick, the user will be able to identify any area of interest, which can then be magnified and examined at a much higher resolution. (For example, with a 5:1 zoom ration, a standard 600-line TV camera becomes equivalent to a 3000-line camera in the zoom mode.) After detailed study, the user will then return to the wide-field mode.

As the zoom and roam functions will be controlled and stored electronically, this will allow the user to return to exactly the same position, without the problems associated with mechanical backlash.

It is expected that the system will be particularly useful in areas such as medical X-ray imaging, where the clinician may want to look at a possible fracture or tumour at high magnification without physically having to move the patient. As well as accomplishing image manipulation, the image intensification also enables the X-ray dose to be considerably reduced compared to film.

Another application area is for the examination of cell cultures. In the wide-field mode, the camera will map the x-y address of each cell, while in the zoom-and-roam mode, it will be possible

to view each cell at high magnification without having to adjust the microscope stage or lens turret. This will enable much faster recognition, imaging and characterization of cultured cells to be performed in certain specialized cytology applications.

Photek would welcome approaches from potential users, and camera and system manufacturers who could help Photek to develop, apply and exploit this concept further.

The idea for this project was conceived out of discussions on imaging systems between Photek and a Research Group led by Dr Boris Vojnovic at the Cancer-Research-Campaign-funded Gray Laboratory Cancer Research Trust, Mount Vernon Hospital, Northwood, Middlesex, England.

Photek Limited, 26 Castleham Road, St Leonards on Sea, East Sussex TN38 9NS, England

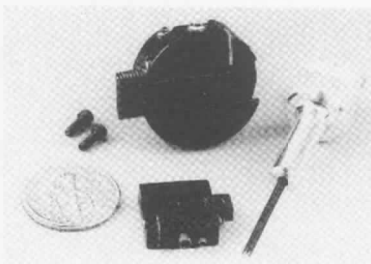
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Compact Micropositioners

A line of compact and rugged X-Y micropositioners that facilitate the one-time adjustments that are typically required when setting up lasers, mirrors and related optical instruments is available from Charles Supper Company.

Supper X-Y Micro-Slide Assemblies feature durable aluminium sledges with hardened stainless steel drive screws and are permanently lubricated. Designed to permit fine-tune manual positioning of sensitive instruments, these lightweight low-profile assemblies can be mounted virtually anywhere to facilitate final set-up.

Adjustable and fully lockable in both planes using a six-spline drive key, Supper X-Y Micro-Slide Assemblies include drilled and tapped mounting holes or can be epoxied into place. Three sizes are offered, from 0.500 in² with 0.125 in X-Y travel to 1.490 in outer diameter with 0.750 in travel. Options include 'Z'-axis attachments.



Compact micropositioners

Supper X-Y Micro-Slide Assemblies are priced from US \$175.00 each, de-

pending upon size. Literature and a price list are available upon request.

Charles Supper Company, Inc., 15 Tech Circle, Natick, MA 01760, USA

International Union of Crystallography

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Prices of IUCr journals

The Executive Committee of the International Union of Crystallography is pleased to announce that there will be no price increase for *Journal of Synchrotron Radiation* in 1996. There will continue to be a 15% discount on the prices of the individual sections for subscribers taking out a combined subscription to Sections A + B + C + D of *Acta Crystallographica*. Subscribers taking out a combined subscription to Sections A + B + C will receive a 4% discount. Individuals may also take out a combined subscription to Sections A + B + D at a discount of 5%. Subscribers taking out a combined subscription to *Journal of Applied Crystallography* and *Journal of Synchrotron Radiation* will receive a discount of 25%.

The Executive Committee has determined the following subscription rates and prices of back numbers for *Acta Crystallographica*, *Journal of Applied Crystallography* and *Journal of Synchrotron Radiation* as from 1 January 1996.

Acta Crystallographica

The following rates will apply for Volumes A52, B52, C52 and D52 (1996). All subscription rates are fixed in Danish kroner. The US dollar equivalents are not given because of fluctuations in exchange rates.

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