spectroscopy

Vacuum CCDs become affordable...

...the Andor iDus

USB 2.0

The world's most compact and reliable spectroscopic CCD camera

- **UltraVac™ – from the vacuum experts**
- **USB 2.0 connectivity**
- **Cooling to -100ºC**
- **Up to 95% QE**
- **Available in a wide range of sensors**

INVESTOR IN PEOPLE

ISO 9001:2000

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ANDOR™
TECHNOLOGY

discover new ways of seeing™

Performance CCD Technology...
...the Andor iDus

Andor has pioneered vacuum CCD technology over many years. We have thousands of detectors in the field, more than anyone else. These economies of scale now enable us to provide more affordable technology in the form of the Andor iDus.

Technology markets evolve and we all expect to get more for our money. The Andor iDus leads the way, delivering performance that was once the preserve of high-end spectroscopy.

Unparalleled customer benefits include:-

Guaranteed permanent hermetic vacuum-seal: Many claims are made about vacuum technology in CCDs but no-one comes close to Andor's years of experience or volume of product in the field. Andor's proprietary UltraVac™ process means superior cooling, longevity and sustained performance. No outgassing, no repumping, no maintenance, no leaks.

Why vacuum? Better cooling performance with less power and a smaller package. Better cooling translates into less dark current and fewer blemishes.

Why permanent? Condensates on the cold chip degrade the QE, and this degradation is often irreversible, particularly in the UV.

What about repumping? Not a good option, it often means that damage has already been done and is permanent.

How does Andor achieve this? All our CCD detectors use our proprietary all-metal, glass and ceramic vacuum enclosure. It has been specially treated to improve already low outgassing, and delivers a permanent vacuum. Moisture and hydrocarbons cannot, and will not build up in our heads, even after years of use. We have been doing this for almost a decade

Fast Data Acquisition: Sustainable rate of 90 spectra lines per second through USB 2.0 directly to computer memory.

Simple USB 2.0 connectivity: Plug the iDus directly into your computer. No PCI card, no controller box, it's that simple.

Minimum Operating Temperature of -100ºC: Andor has years of experience with TE cooled systems, which provide negligible dark current without the aggravation or safety concerns associated with LN_2. Water assisted TE cooling will always be better than air-cooling. At Andor we do not restrict your choice.

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August 2007