

RetrieverTech

Scientific Grade Large Format
Cooled CCD Cameras

T-Series





Features

- 3.5 electrons of noise at 500kHz!
- High resolution 16-bit image
- Fiber optic connection with 12.5 Mpix/sec transfer rate
- TEC cooling to -60 C
- Hermetically sealed package
- Windows, Unix & Linux compatible
- On board binning
- Small footprint
- Available with a choice of CCDs
 - Radiation hardened
 - Phosphor deposited
 - Coating to match your application

Camera Description

Retriever Technology introduces the T-Series Scientific Grade CCD Cameras for high performance scientific imaging. With CCDs as large as 4k x 4k available, the T-Series cameras offer outstanding performance and flexibility. Cameras are delivered ready to be used in a lens-coupled system or with a fiber optic faceplate. Our standard model is offered with E2V's 4240 CCD chip, and is available for you to test today. This chip has 2048 x 2048 pixels (13.5 um x 13.5 um pixel size), with extremely low noise, fast readout, and exceptional dynamic range.

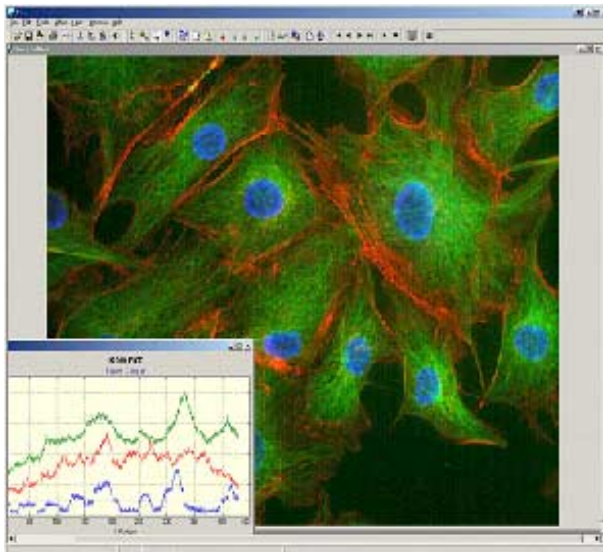
Options

- Choice of Front or Back Illuminated CCDs
- Available with a fiber optic faceplate and image intensifiers
- Single photon detection
- Up to 4k x 4k CCD Chips with 100% fill factor

Camera Operating and Image Analysis Software

The camera is operated by V++, an award winning control and image analysis software from Digital Optics. V++ is a sophisticated product with thousands of features including the ability to handle multiple image types, sequence & stacking of images, geometric operations, morphing, object analyzing & counting, advanced mathematics and many more.

A demo version of this powerful software is available for testing.



The Sensor

The T-Series Camera is designed to work with different format CCDs from manufacturers such as E2V, Fairchild, Thompson, and others. We have cameras with Front Illuminated scientific grade E2V-4240 CCDs ready for quick delivery. Cameras with other chips or fiber optic coupling are available for delivery in a short time. Please contact Retriever Technology for complete information.

3rd Party applications

For users who wish to interface their own application or scripts to the device driver and controller, an API in C++ provides added flexibility.

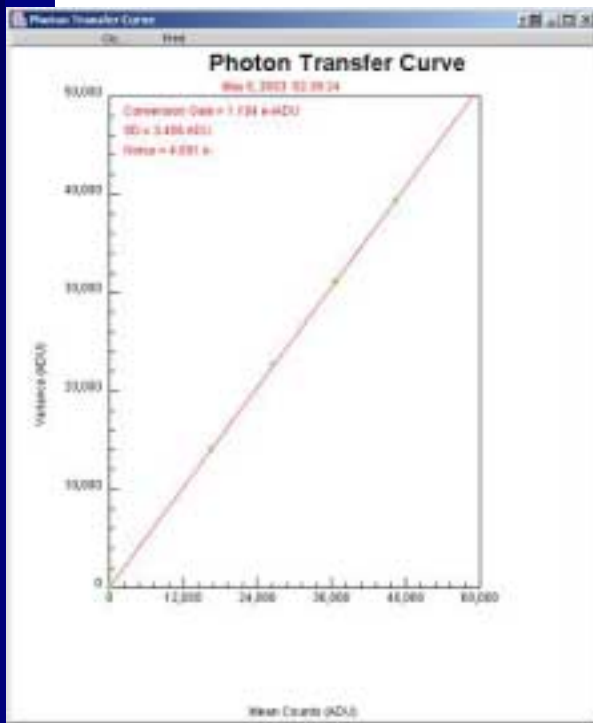
Additionally Java-based software is available for use with Unix and Linux operating systems.

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Functional Description

Retriever Technology's CCD cameras are designed to operate at the highest levels of performance and functionality. The results are cameras with the widest dynamic range, lowest noise and greatest sensitivity. Additionally we guarantee our cameras for two years and vacuum integrity for five years. These industry leading performance characteristics and competitive pricing make the T-Series Cameras ideal candidates for many demanding applications such as:

- Streak Cameras
- X-Ray diffraction & Crystallography
- Spectroscopy
- Luminescence
- Astronomy
- And many more



Test result based on E2V-4240 chip. The chip was cooled to -45°C and was read out at 400kHz. Every camera is tested and guaranteed.



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