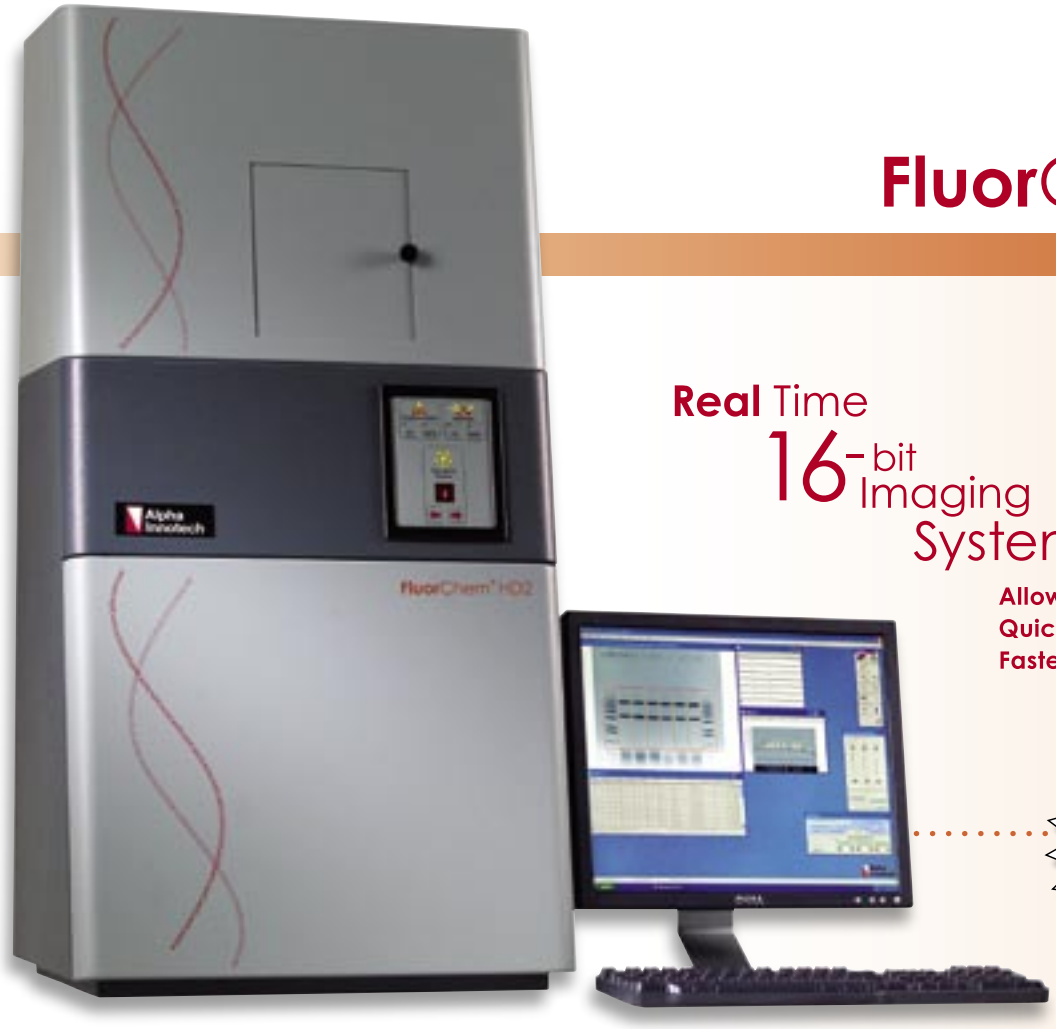
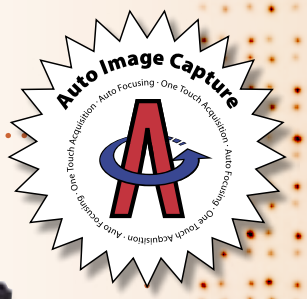
FluorChem® HD2



Real Time 16-bit Imaging System!

Allowing Faster Image Posttioning
Quick Image Focusing
Faster Overall Image Capture Times



The FluorChem HD2 High Dynamic Range Imaging System

is our newest innovative design and offers the leading combination of resolution, sensitivity and dynamic range. Additionally, the FluorChem HD2 Imaging System comes with AlphaView™ Image Analysis software that combines unrivaled ease of use with a comprehensive set of documentation, analysis and image enhancement tools.

Market Leading Technical Specifications

- 4.2 Megapixel Resolution
- True 16-bit Real Time Data Imaging
- Micro Lens Technology
- Highly Sensitive Multi-Application Platform
- 21CFR*Part11*Compliant Software

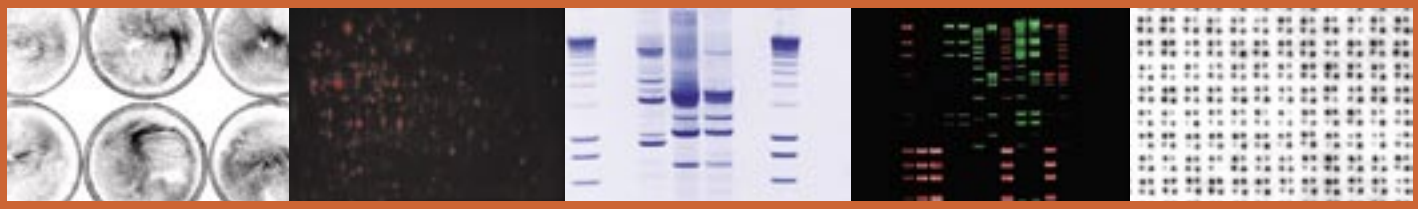
Auto Image Capture Software Available!

Alpha Innotech

The Benefits of Market Leading Specifications?

Clearly **Better!**

Wide Array of Applications



General Applications

- Chemiluminescence Imaging
- Fluorescence Imaging
- Gel, Film, and Membrane Imaging
- Culture and Microplate Based Assays

With the optional Chromalight® Multiwavelength Illuminator

- Alexa Fluor® 680
- Cy3™/Cy5™ labeled gels
- In-vivo Imaging
- And many more applications

Image from 16-bit Camera

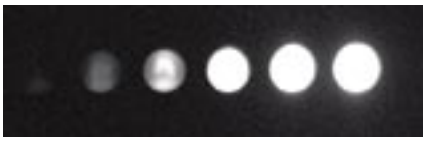


Image from 12-bit Camera

Images at standardized luminescence plate showing sensitivity and dynamic range comparison between a 12-bit camera and 16-bit camera.

FluorChemHD2	
Camera	
Pixel	7.4 x 7.4 microns
Full Well Capacity	40,000 e-
Read Noise	8e- rms
Dark Current	0.2e-/p/s
Resolution	2048 x 2048
Dynamic Range	>75 dB
Megapixel	4.2
Cooling	-25 Celsius (absolute & regulated)
QE @ 425nm	49%
A/D	16-Bit
Illumination	
Epi White Light	Dual Epi White Light Modules
Trans White Light	Fold Down White Light Tray
Trans UV	Dual Wavelength UV Transilluminator (302nm & 365nm)
EBR Filter	Ethidium Bromide, Coomassie Blue SYPRO Orange
Optional Features	
Epi UV	254nm/365nm
Wide Selection of Emission Filters	Filter Info as Requested
Applications	
Absorbance/ Colorimetric	Yes
Fluorescence	Yes
Chemiluminescence	Yes
OS Compatibility	Windows®2000/XP
Certifications	CE, TUV, CSA

Dynamic Range

The FluorChem HD2 Imaging System is a native 16-bit analysis system utilizing a high performance, high resolution, 16-bit camera. The system's deep well capacity and low noise characteristics provide data acquisition with the widest dynamic range.

Performance

By combining high sensitivity, dynamic range, and resolution, the FluorChem HD2 Imaging System's performance is better for more applications.

Auto Image Capture

AIC is a breakthrough in imaging software, which reduces the image acquisition process to one easy step. This imaging software combines motorized optics with software controlled filter selections and lighting options. Now, with just one click of a button, you can perform all of the filter, lighting and camera control operations necessary to acquire a high quality image of your sample.

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