FluorChem® HD2

Real Time 16-bit Imaging System!

- Allowing Faster Image Positioning
- Quick Image Focusing
- Faster Overall Image Capture Times

Auto Image Capture · Auto Focusing · One Touch Acquisition

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 AlphaEase® FC Image Analysis software that combines unrivaled ease of use with a comprehensive set of documentation, analysis and image enhancement tools.

Market Leading Technical Specifications

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

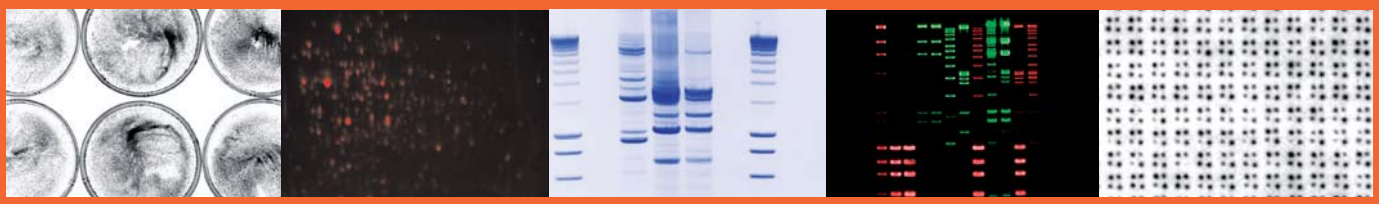
Auto Image Capture Software Available!

Alpha Innotech

The Benefits of Market Leading Specifications?

Clearly **Better!**

Wide Array of Applications



General Applications

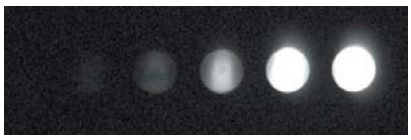
- Chemiluminescence Imaging
- Fluorescence Imaging
- Gel, Film, and Membrane Imaging
- Culture and Microplate Based Assays

With the optional Chromalight® Multiwavelength Illuminator

- Multiplexing of near IR dyes
- Qdot® dyes
- 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.

FluorChem HD2	
CCD	KAI-4020M
Pixel	7.4 x 7.4 microns
Full Well Capacity	40,000 e-
Read Noise	7 e- rms
Dark Current	0.06 e-/p/s
Resolution	2048 x 2048
Dynamic Range	>75 dB
Cooling	-25 Celsius (absolute and regulated)
QE @ 425nm	49%
A/D	16-Bit

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 acqusion 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.

Alpha Innotech
Innovations For Life Science Discovery
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