

# MicroChem

High performance imager  
for all chemiluminescent applications



**Documenting Nature**

# MicroChem

## Excellence in bio-imaging, Expert in Chemiluminescence

**The DNR Advantage:** As pioneers in bio-imaging technologies and innovations, we've helped to set the standards in the global life-science research community.

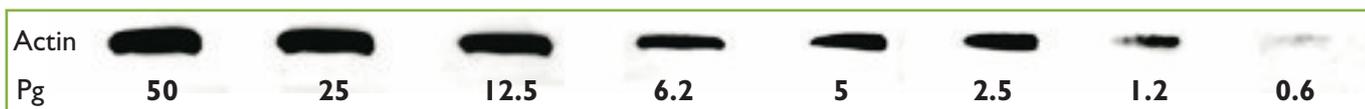
**Essential Features for Every Laboratory:** The MicroChem gives you top quality features in an affordable dedicated chemiluminescent system.

With its easy set-up, efficient operation, and compact design, the MicroChem system saves on both work time and bench space.

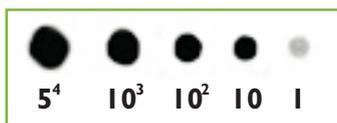
**I-Button Capture:** Accurate, high-quality images at the click of a button.

**Camera and Optics:** The MicroChem is offered in three different optional cameras for enhanced resolution: 2.0 Mpixel, 4.2 Mpixel and 11.0 Mpixel. Upgrade option is possible. The MicroChem combined optics and camera technology provides high sensitivity and wide dynamic range for high quality images. The MicroChem, super sensitive high-speed 16-bit CCD range of cameras, will detect even the weakest bands and signals.

### High sensitivity

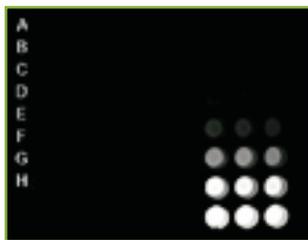


**Wide dynamic range** - More than 4.6 orders of magnitude enables to accurately detect and quantify both weak and intense signals in the same image.



A low light imaging standard with a continually glowing Tritium light source, showing a wide detection range.

### Compatible with all Chemiluminescence and Bioluminescence applications



ECL 96 well experiments showing 2 fold dilutions



E-Coli luciferase detection



Visible light colony documentation



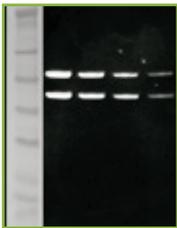
Natural luminescence detection of a Mint leaf



## Expert in Chemiluminescence

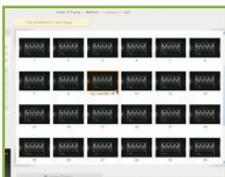
**GelCapture Software:** DNR's special image acquisition software and image analysis software controls the exposure and other essential image capture functions.

The GelCapture provides the researcher with the most advanced tools for fast and accurate results:



**The Save with reference (Marker Overlay)** - adding the marker image to the ChemiLuminiscent image

**The Auto Exposure** - Detect your weakest bend and **automatically** takes the optimal Image



**The Advanced Save** - enables you to program and capture a series of images with selected exposure times and delays between each image.

**The Save Parameters to Image** - Enables you to save the parameters to the Image and accurately repeat the same experiment.

### GelQuant ID analysis software featuring automatic work flow and advanced analysis features



- Auto lane and Bend detection
- Molecular Weight calibration
- Quantity calibration
- Image manipulation tools
- Optional - CFR21 part II module



**Optional BioNotebook:** DNR's very own management system where every image is not only documented but kept organized and easily accessible. Add, save, and update your files, images, data, notes, and comments all in one place.

### Cooling system

- Dual peltier cooling device, cooling to a minimum temperature of -60°C

Camera	2.0 Mpixel	4.2 Mpixel	11.0 Mpixel
Type	CCD	CCD	CCD
Resolution	1,200 X 1,600 UP TO 8 Mpixel image resolution	2,048 X 2,048 UP TO 16.8 Mpixel image resolution	4,008 X 2,672 UP TO 44 Mpixel image resolution
Pixel size	7.4µm x 7.4µm	7.4µm x 7.4µm	9µm x 9µm
Gradation	16 bit, 64,536 levels of gray	16 bit, 64,536 levels of gray	16 bit, 64,536 levels of gray
Dynamic range	>4.6 orders of magnitude	>4.6 orders of magnitude	>4.6 orders of magnitude
Exposure time	0.5 sec to 24 Hours	0.5 sec to 24 Hours	0.5 sec to 24 Hours
Super bright lens	F/0.95	F/0.95	F/1.2
Binning	8 different binning positions	8 different binning positions	8 different binning positions

### Dark Chamber

- Dual sealed dark chamber for maximal prevention of light penetration

### Illumination

- Epi White light

### Tray

- Removable
- Field of view: 10 X 14CM

### System Dimension

- W 35 x L 32 x H 64 cm
- Weight: 19kg



Contact DNR for further details

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