

# ActiPix D200

## *UV-VIS Imaging Platform*

### Powerful & Flexible Detector System



The latest generation of ActiPix™ UV Imaging System is based on a flexible modular format to allow easy integration and user choice:



### System Highlights:

- 2 CMOS Detector variants (11 x 6 mm & 11 x 11 mm)
- Multi-wavelength detection with a choice of UV and Visible LEDs or xenon flash lamp
- L-shape design for easy access to imaging sensor
- Detector profile can be specified as raised to allow close coupling for CE and nanoLC connections
- Whole chip imaging with full resolution at up to 80 fps
- Capillary based detection at up to 500 fps with pixel binning
- USB 3 data rates (hard disk speed dependent)
- Software for processing images for quantitative data
- Easy integration with auto-sampling, nanoLC & CE systems

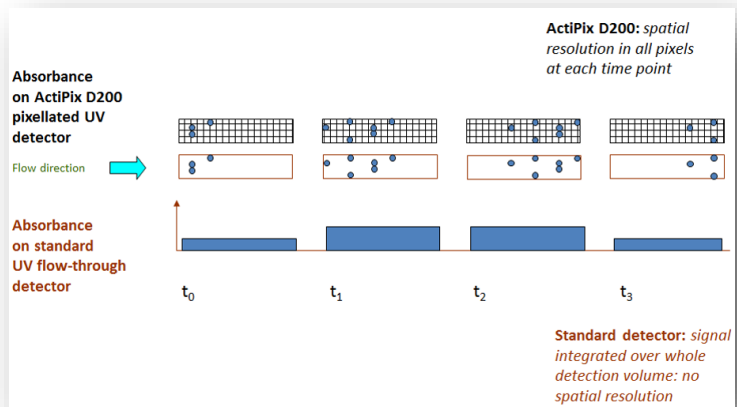
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## Research Applications

The flexible nature of the ActiPix™ D200 platform lends itself to research in many areas.

Some examples:

- On column & through capillary detection for nanoLC and Capillary Electrophoresis
- Multi-channel / zone detection
- Lab on a chip
- Label free reaction imaging
- Particle & cell tracking
- Drug release
- Subcutaneous models / gels



## Patented Self-Referencing Technology

The patented ActiPix 'self-referencing' technology allows fluctuations from light sources or thermal effects to be removed from the signal of interest, improving signal stability, quality and S/N.

The referencing technique can be used in cylindrical tubes and rectangular lab-on-a-chip type channels.

For samples in the flow, the ActiPix signal processing algorithm takes the individual pixel responses and averages the data over the time the sample takes to pass through the detector. This results in improved S/N ratio, without sacrificing spatial resolution

## System Specifications

Wavelength range 180-800 nm

Whole chip imaging with full resolution at up to 80 fps

Capillary based detection at up to 500 fps with pixel binning

Linearity: 0.01 to 1000 mAU

Noise: ~7  $\mu$ AU (1x16 binning / 100 fps / 1 s time constant / 255 nm / 75  $\mu$ m i.d. capillary)

Overall system dimensions (LxWxH) 160 x 100 x 100 mm

(not including cartridge)

Total system weight 1.2-1.5 kg depending on configuration

Power 100 – 240 V AC 50/60 Hz –external power source

Environment 5 – 40°C

Safety certified to UL61010-1:2004 IEC61010-1:2001



For more information contact:

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