



Molecular Dimensions

ACHIEVE MORE.

UVEX UV imaging systems

Easily identify <math><10 \mu\text{m}</math> crystals with the highest resolution imaging system.



All UVEX imaging systems, both manual and automatic provide:

- Simple differentiation of protein or other biomolecules from salt crystals with UV excitation/emission optimised for Tryptophan fluorescence.
- Detect even tiny crystals with Industry-leading resolution down to $0.2 \mu\text{m}/\text{pixel}$ (with optional objectives).
- Easy image interpretation with proprietary design that superimposes brightfield and fluorescent images without hard- or software manipulation due to a shared optical path.
- Optional UV absorbance for nucleic acids or proteins quenched by small molecules binding.
- Easily obtain high-quality images with video camera for rapid alignment and focusing, automatic drop-centring (with manual override), Z-slicing for composite, extended depth and cooled, high-efficiency 6 MP monochrome UV camera.
- Visible fluorescence and colour birefringence options.
- Simple to use and maintain with easy-to-use software with image management, low maintenance LED light sources and remote-access software updates.

UVEX-m

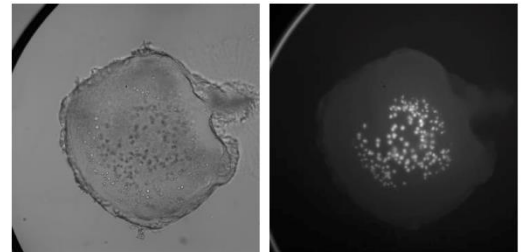


For manual inspection

UVEX-p



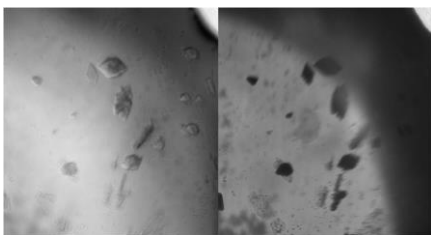
Automatic scanning



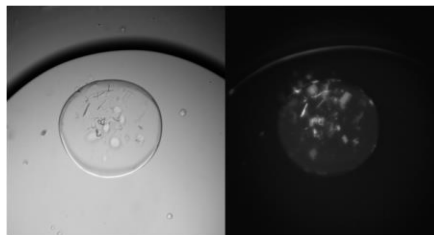
Protein crystals are easily seen in both the brightfield (left) and UV-fluorescence images (right).



Salt crystals, visible in the brightfield image (above left) are distinguished from protein by the lack of a fluorescence image (above right).



DNA-containing crystals can be detected with the optional UV absorbance feature (DNA crystals are dark in the absorbance image right)



Even very **small crystals** grown in cloudy LCP can be identified due to strong UV fluorescence (right)





UVEX-m (MD5-800)



- Standard: Tray table
5x and 15x objectives
Computer, monitor and software
Site-wide software licence
1 year warranty
- Options: Manual XY stage, motorized Z
10x, 20x and 40x objectives
UV absorbance and cross-polarizers
- Dimensions: 30 x 30 x 50 cm, Weight: 11 kg
Power: 110-240 V, 50/60 Hz, 60 kWh

UVEX-p (MD5-805)



- Standard: Automatic scanning of SBS or Linbro plates
5x, 10x (or 15x) and 20x objectives
Computer, monitor and software
Site-wide software licence
1 year warranty
- Options: 40x objective
UV absorbance and cross-polarizers
Can be retrofitted into existing JANSi plate hotel
- Dimensions: 30 x 35 x 50 cm, Weight: 16 kg
Power: 110-240 V, 50/60 Hz, 120 kWh

UVEX-ps (MD5-824)



UVEX-p with plate hotel. Including low-vibration operation, collision detection, barcode printer (with 4000 labels and printer software), barcode scanner, sensors to monitor plate-status, temperature control (4-25 °C), cameras for remote monitoring, mix-and-match storage shelves for standard and low-profile SBS plates, 150 plates/day scanned, power-failure fail-safe, and many other features. Computer, monitor and software (with site licence) and 1 year warranty included.

- Dimensions: 90 x 72 x 212 cm; 350 kg (UVEX-ps256; MD5-815)
- Connectors: 24 V DC power, USB 2.0 and ethernet
- Power: 110-240 V, 50/60 Hz, 0.5 kWh

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