UVEX UV microscopes for protein crystal detection

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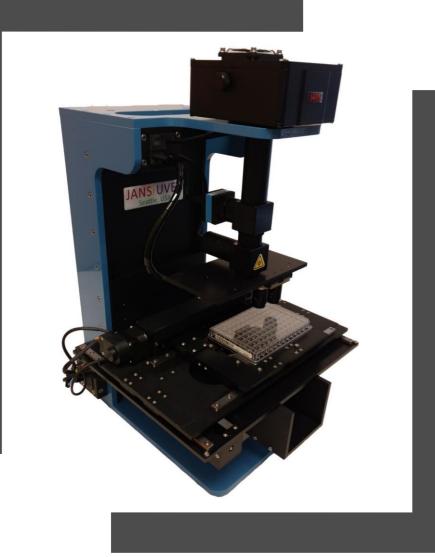




UVEX-m

Manual version:

- Tray table standard, manual XY stage optional; motorized Z optional; 5x and 15x objectives standard, 10x, 20x or 40x optional; UV absorbance optional; crossed polarizer optional
- Dimensions: 30 x 30 x 50 cm
- Weight: 12 kg, shipping weight 25 kg
- Power: 110 240 V 50Hz/60 Hz 60 kWh



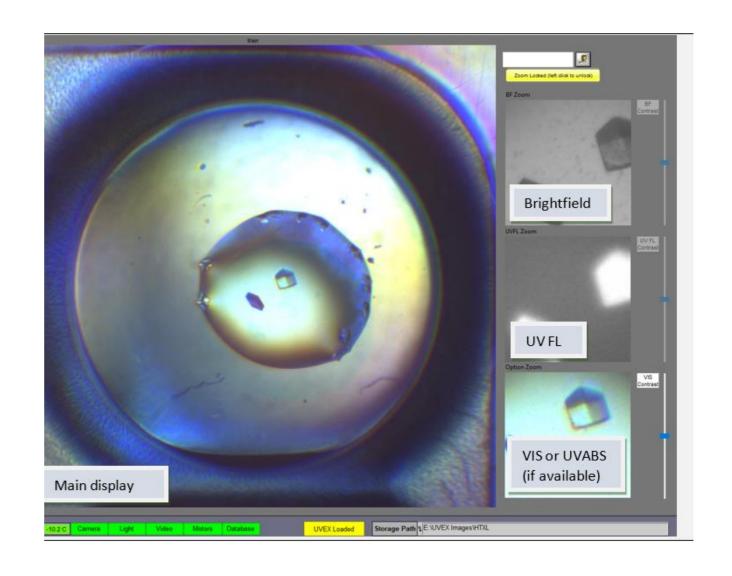
UVEX-p

Automated version:

- Automatic scanning of SBS, Linbro plates; 5x, 10x (or 15x), 20x objectives standard, 40x objective optional; UV absorbance optional; color birefringence optional; visible fluorescence optional
- Dimensions: 30 x 35 x 50 cm
- Weight: 16 kg, shipping weight 30 kg
- Power: 110 240 V 50Hz/60 Hz 120 kWh

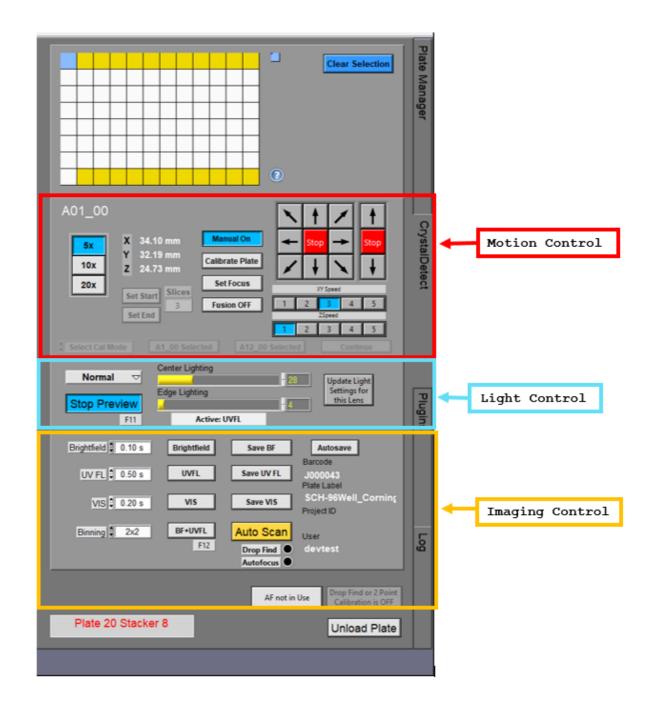
UVEX Well and Drop Display

- Main display = current image
- Side displays on the right show zoomed images of BF, UVFL or VIS/UVABS with contrast adjustments
- Moving cursor over main display shows zoomed side displays in windows on right
- Click on corresponding side display to view in main display position and measure feature sizes using system ruler



UVEX User Interface (UI) Controls

- Motion control with virtual joystick, objective lens selection, calibration, focus, and extended depth imaging (Z-slicing)
- Light control with exposure settings and live preview of well and drops
- Imaging control with image exposure times, image obtaining controls, image saving, and autoscanning
- Autocentering (drop find) and autofocus selections



UVEX-ps

UVPS-256: 256 Standard or 344 Low-Profile SBS Plate Capacity



- Dimensions: (w)90 x (d)72 x (h)212 cm UVEX-ps256
- Weight: 350 kg
- Connectors: 24 V DC power, USB 2.0 and Ethernet
- Power: 110-240V
 50 Hz/60 Hz 0.5
 kWh
- Includes casters and adjustable (leveling) feet

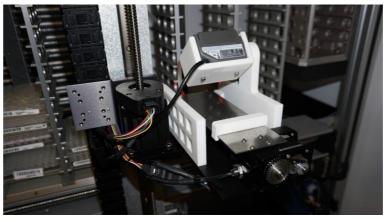
UVPS-640: 640 Standard or 860 Low-Profile SBS Plate Capacity



- Dimensions: (w)90 x (d)95 x (h)212 cm UVEX-ps600
- Weight: 450 kg
- Connectors: 24 V DC power, USB 2.0 and Ethernet
- Power: 110-240V
 50 Hz/60 Hz 0.5
 kWh
- Includes casters and adjustable (leveling) feet

UVEX-ps

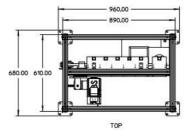
- 8 or 20 stackers for plate storage
- 32 standard or 43 low-profile SBS plate storage capacity per stacker; different capacity stackers may be combined
- UVEX-p microscope for automated imaging
- Low-vibration, smooth mechanism for moving plates between loading port, storage, and microscope
- IR cameras for monitoring hotel interior
- 4 °C to ambient temperature control with built-in vibration isolated compressor (ps 256 only)
- Casters for easy moving

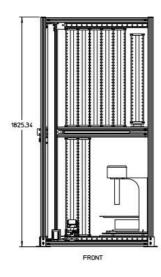




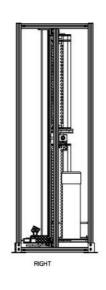


UVPS-256: 256 Standard or 344 Low-Profile SBS Plate Capacity

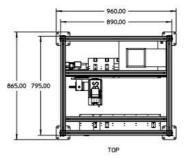


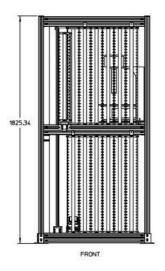


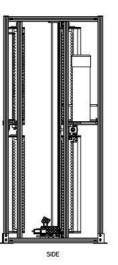
UVPS-256



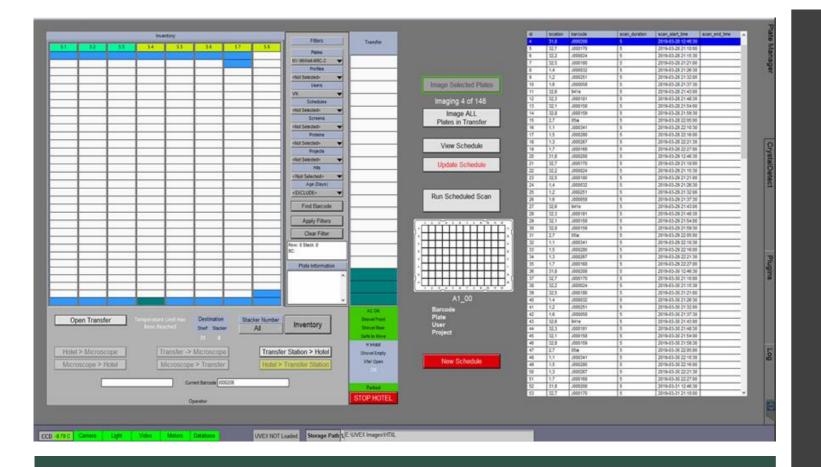
UVPS-640: 640 Standard or 860 Low-Profile SBS Plate Capacity





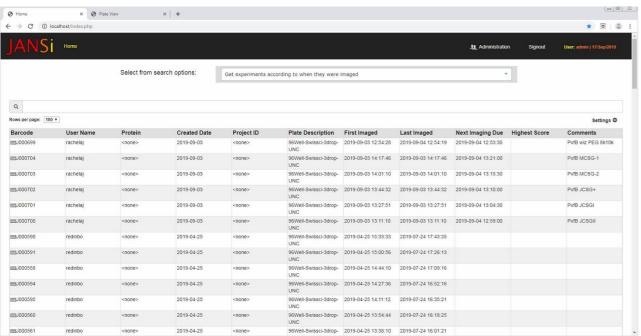


UVPS-600



UVEX-ps User Interface (UI) Display and Controls

- Hotel stacker inventory display
- Transfer stacker display
- Filter panel for locating plates by user, plate type, barcode, etc.
- Motion controls for moving plates between storage, transfer, and microscope
- Imaging controls for automated scanning of select plates or scanning plates according to a schedule
- Spreadsheet for viewing past, ongoing, and future scheduled scans



Webview

- Browser-based; can be run from other computers in the network
- View entire plates or individual drop images
- Scoring system for assigning hits
- Overlay of Brightfield and UVFL images
- Measurement of drop feature sizes with ruler
- Plate profiles organized by date, barcode, username, crystallization screen, imaging date, project, protein, comments, and notes
- Powerful search function based on boolean operations of variables such as barcode, pH, screen conditions, etc.

