

Plate hotel options for the CrysCamUV

Protein crystallization imaging system with UV and visible light,
with options for working with fluorophores and/or a plate hotel.



Main features of the combined system:

- The **CrysCam UV™ (CCUV) with plate storage system** is for automated visible and ultraviolet (UV) imaging of protein crystallization plates with nanolitre volume drops in standard or low profile SBS-format, and Marienfeld/Hampton LCP sandwich glass.
- The system consists of the ARI CCUV integrated with a plate storage and shuttle system.
- The CCUV with hotel has an integrated barcode reader linking date, well and camera details to images and plates.
- The CCUV with the integrated high capacity plate storage system has capacity for standard and/or low profile SBS-format plates and LCP sandwich glass plates or any combination of the three.
- Various hotel models can be specified, and are available with 42, 210 and 504 storage capacity.
- The CCUV system supports user defined automated scheduling for plate inspection.
- ARI can also supply standard crystallization plates and with user defined preprinted bar code labels.
- The plate storage solution temperature control option maintains a constant temperature between 4 °C - 25 °C +/-0.5 °C and is configured to image sitting drop, hanging drop, and LCP sandwich plates (available for 42, 210 and 504 plate hotel).
- The CCUV with plate storage system uses best design practices and high precision motion components to minimize vibration and provide gentle plate handling and movement of plates between the imager and plate hotel.
- The plate hotels have rotary stacker movement and linear plate handling.
- Plate images can be managed by plate / bar code identification.
- The CCUV and storage system has a user-friendly interface and software to allow users to store, access and analyze crystallization experiment images remotely.
- The CCUV software includes a link to crystallization screen conditions that can be loaded and run on the user owned **Scorpion Screen Builder** (please ask for our separate flyer), with libraries of pre-loaded commercial screens.
- Administrator settings are password protected. Plate images can be stored and identified by users.

Features of the CrysCam UV™:

- Automatically scan the plate and capture visual and UV images and save for review at any time.
- Scan multiple wells in one run, possible to scan sub-wells.
- View both visual and UV image for any well side-by-side (see overleaf).
- Capture images with two different wavelengths in the UV-spectrum: 334 nm and 365 nm.
- **Customized filter options for working with fluorophores available e. g. Texas Red or GFP**
→ Please contact us for more information!
- The CrysCam UV™ can be used to capture crystal images in nano size drops.
- Ability to capture multiple slices and create a highly detailed image of the complete drop.
- Score and compare wells of interest.
- Software offers integrated database for analysis and score.
- Parfocal lens remains focused when zooming.
- Camera with a resolution of 2750 x 2205 (6.0 MPix) and sensor size of 2.54 cm.
- Digital image of 2.37 microns/pixel with a minimum zoom to 0.7 microns/pixel.
- Can view individual wells and sub-wells with or without a polarizer.
- Determine crystal X-Y-Z position for use with in-situ crystal diffraction.
- Filter removes UV reflections from plates.
- Integrated cooling function can set temperature down to -10 °C.
- Enclosure covers lens and plates to block stray light.

Specifications of the CrysCam UV™:

Size: (w x h x d): 60.96 cm x 53 cm x 35.56 cm, 18 kg

Camera:	Resolution:	2750 x 2205 (6.0 MPix)
	Digital image:	2.37 microns/pixel
	Minimum zoom:	0.70 microns/pixel
	Optical magnification range:	3.5x to 20x
	Field of view:	800 microns to 4.5 mm



Accessories included:

- Desktop computer with mouse and mouse pad
- Multi-seat software license
- Calibration plate
- Adapter for Linbro plates

Ordering information:

Cat. No.: 610-9000-10 → CrysCam UV™ with desktop computer

Cat. No.: 610-9110-31 → Plate hotel, 42 plates capacity

Cat. No.: 610-9110-30 → Plate hotel, 42 plates capacity, 4 - 25 °C Temperature Controlled

Cat. No.: 610-9110-21 → Plate hotel, 210 plates capacity

Cat. No.: 610-9110-20 → Plate hotel, 210 plates capacity, 4 - 25 °C Temperature Controlled

Cat. No.: 610-9110-11 → Plate hotel, 504 plates capacity

Cat. No.: 610-9110-10 → Plate hotel, 504 plates capacity, 4 - 25 °C Temperature Controlled