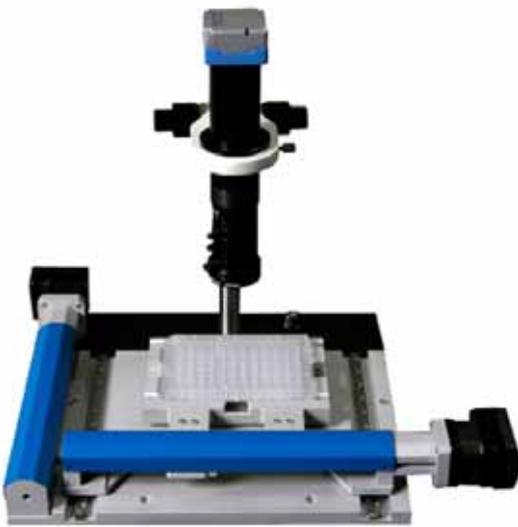


**From Art Robbins Instruments
imaging systems and plate hotels
for protein crystal observation, documentation and plate storing:**

- **CrysCam™**
- **CrysCamplus™**
- **CrysCamUV™**

CrysCam™

Digital Microscope for Protein Crystal Observation and Documentation



The CrysCam™ Digital Microscope allows you to capture the images of an entire plate with a click of the mouse. The stage and easy-to-use software automatically capture the image of each well and then moves to the next. With the small footprint, the device fits into a small space and can also be set up in a cold room. The CrysCam™ can be used to see crystals during crystallization, instead of looking through a microscope. The high resolution and precise X-Y stage easily mounts to the CrysCam™ base.

CrysCam™ features:

- Compatible with 96-well, 24-well Linbro and Terasaki plates (see adapters - page 2)
- Reads a 96-well plate in less than three minutes.
- Can be used in a cold room at 4 °C.
- Quality par focal zoom lens with iris.
- Integrated cross polarization.
- 6.5 x zoom with 3.87 mm x 5.16 mm - 0.6 mm x 0.8 mm field of view.
- 3 Mpix CMOS, 8.38 mm sensor USB cameras.
- Modular and upgradeable components.
- Smooth large base platform with integrated LED lighting.
- Image acquisition and processing software.
- Easy-to-use Windows software (Windows.NET).
- Integrated scoring database for analysis of score in the software.
- Accurate and precise closed-loop control system.
- Predefined plate library makes choosing the right well location quick and easy.
- Stage resolution down to 0.0033 mm.
- Size: (w x h x d) 44.45 cm x 33.02 cm x 34.29 cm, 10.66 kg
- Users can upgrade their system to a CrysCamplus

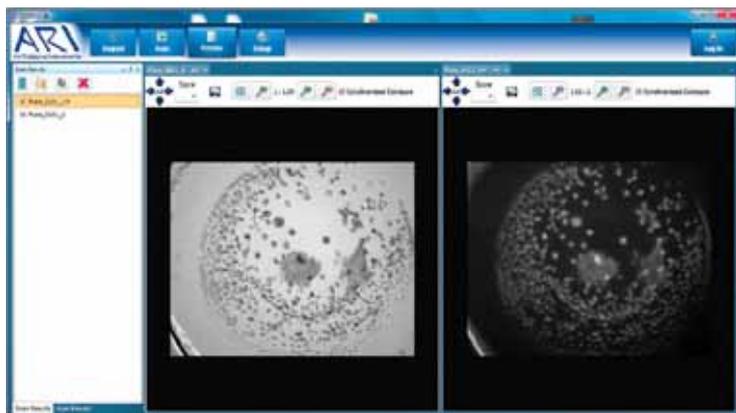


Camera head

**Digital Microscope for Protein Crystal Observation and Documentation
with visible and UV-light**

CrysCam*plus* features:

- Modular customized configurations.
- Available with 1 or 2 objectives: 5 x, 10 x, 15 x
- View both visual and UV-images for any well side-by-side.
- Monochromatic 6 Mpix camera.
- Compatible with polarization and fluorophores such as CY3 and GFP.
- Score and compare wells of interest.
- Compatible with all SBS format plates, LCP slides, Linbro, and VDX plates.
- Can be placed in a cold room.
- Any existing CrysCam™ can be upgraded to a CrysCam*plus*.



LCP Slide: 50 nl + 800 nl drop size

- The software makes it quick and easy to compare UV and visible images or sets of images taken on different days.
- The magnification and position of the well in each viewing window can be synchronized for easy comparison.
- Multi-seat software licenses allow all users to view images from any computer.

Ordering information:

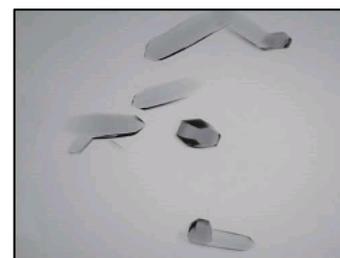
- Cat. No.:** 610-1000-10 → CrysCam™ Digital Microscope System with **desktop** computer
- Cat. No.:** 610-1000-11 → CrysCam™ with same features as 610-1000-10, but with **laptop**
- Cat. No.:** 610-8000-10 → CrysCam*plus* Digital Microscope System with **desktop** computer
- Cat. No.:** 610-8100-01 → Upgrade CrysCam*plus* Digital Microscope System for existing CrysCam™ users
- Cat. No.:** 610-1001-01 → Plate Adapter for CrysCam™ – Linbro Plate
- Cat. No.:** 610-1001-02 → Plate Adapter for CrysCam™ – Q Plate
- Cat. No.:** 610-1001-03 → Plate Adapter for CrysCam™ – Terasaki Plate
- Cat. No.:** 25-1000-50 → Hood for CrysCam™ System

Protein crystallization imaging system with UV and visible light, and options for working with fluorophores



Features:

- 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 CrysCamUV™ 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 (see image below).
- Powered focus and zoom through the software control.
- 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 flag wells of interest.
- Can view individual wells and sub-wells with or without a polarizer.
- Compatible with all plates in SBS-sized format and Linbro plates.
- 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.
- Size: (w x h x d): 60.96 cm x 53 cm x 35.56 cm, 18 kg



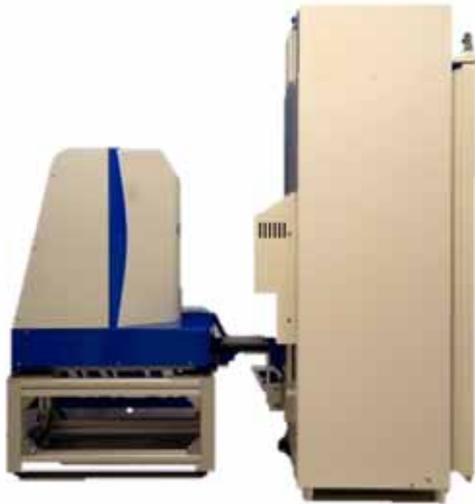
Ordering information:

Cat. No.: 610-9000-10 → CrysCamUV™ with desktop computer and adapter for Linbro plates

Cat. No.: 610-9101-01 → Filter set for Texas Red Option on CrysCamUV™

Cat. No.: 610-9101-02 → Filter set for GFP Option on CrysCamUV™

Plate hotel options for the CrysCamUV



The **CrysCamUV™ (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 and 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.

Features of the combined system (preliminary data):

- 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.

Ordering information:

Cat. No.: 610-9110-11 → Plate hotel, 42 plates capacity

Cat. No.: 610-9110-10 → 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.: 610-9110-31 → Plate hotel, 504 plates capacity

Cat. No.: 610-9110-30 → Plate hotel, 504 plates capacity, 4 - 25 °C temperature controlled

Further information and prices on request.