

Dr. Claudio Klein marXperts GmbH Werkstr. 3 D-22844 Norderstedt / Germany

marxps



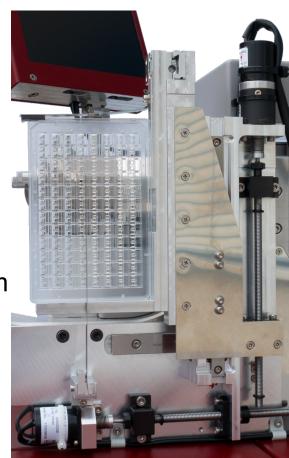
- Addition to standard mardtb
- x,y-translation stage for crystallization plate
- Fully integrated into mardtb control system
- Full hardware control from mardtb software
- Fully automatic data collection from selected drops
- Option to keep the PHI-axis mounted
- Works with mar345 and DECTRIS detectors



marxps



- Accepts 96 well plates from several manufacturers
 (Greiner, Swissci, etc.)
- Handles plates with 1, 2, 3 or 4 drops/well
- Bracket for mounting "normal" and "low profile" plates
- Drops visible in built-in microscope
- Hor. stepper with range of 130 mm, step size: 5 μm
- Ver. stepper with range of 140 mm, step size: < 1 μm
- Translation speed: approx 2.5 mm/sec
- Hardware initialization for hor. & ver. steppers

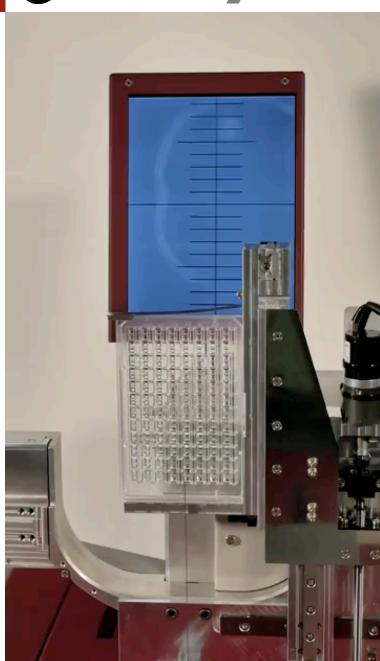






Mounting of crystallization plates

- Mounts for normal and low profiles plates
- Mounting and unmounting does not require any tools (no screws)
- Flexible steel bracket keeps tray in its position
- Drops are at focus of crystal camera







Moving around

- Move from drop to drop with fast hor. & ver. stepper motors
- Motor positions are reproducible
- Motors can be moved from remote control unit, from mar345dtb data collection software and from Android app
- Software keeps track of x,y-coordinates







Automatic data collection

Fully automatic data collection from all drops in a well:

- 1. From predefined x,y-coordinates
- 2. Using a defined horizontal and vertical grid
- 3. A combination of 1 and 2

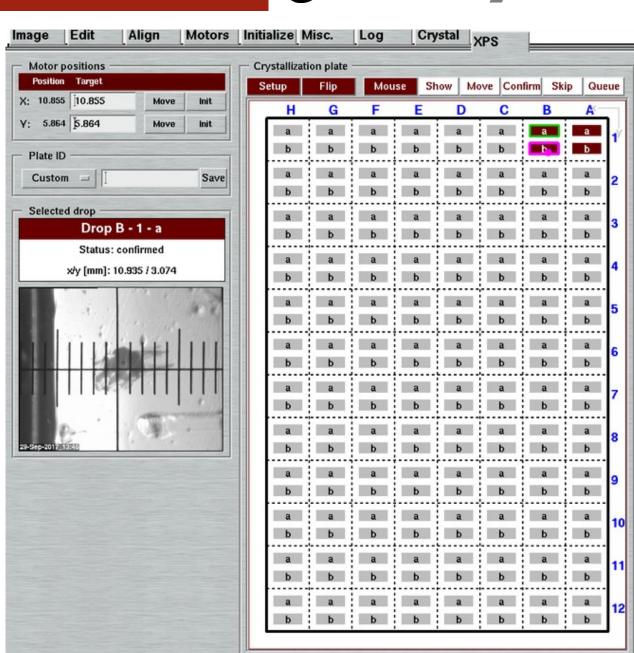






Software: Layout

- Easy-to-use interface with visual feedback.
- Coordinates and foto for each drop are stored
- Drops can be selected in defined order for automatic data collection
- Fully customizable layout for large variety of crystallization plates

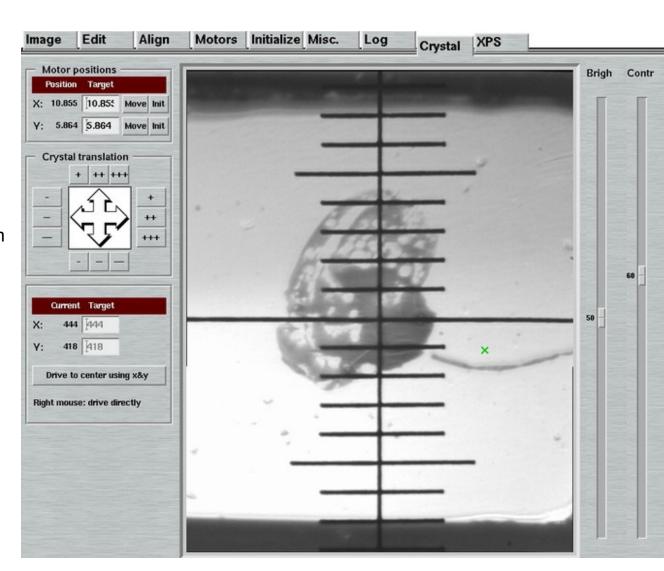






Software: Camera

- Built-in camera of dtb is focused on drops
- Point & click translations for easy centering
- Fine adjustments within +/- 1 μm accuracy
- Drops of fotos are stored in defined places on the PC





Visit us at:

www.marXperts.com

Dr. Claudio Klein marXperts GmbH Werkstr. 3 D-22844 Norderstedt / Germany