

# Microtiter Stage

Option for DeltaVision Imaging Systems

## Expand Your Imaging Capabilities

The Microtiter Stage provides increased flexibility:

- Image 96 and 384 well plates in x, y and z
- Image slides and dishes with an adapter insert for conventional imaging
- Design a plate scan and define how the wells are to be sampled

## Increased Efficiency

Microtiter plates for have several benefits over chambered slides and dishes for large scale lines of investigation:

- More efficient analysis of more experimental conditions at the same time
- Minimizes variability between sample preparations for more consistent results
- Smaller well volume conserves reagents such as antibodies and cells
- Larger sampling sizes to collect statistically significant amounts of data

## Customized Well Scanning

The softWoRx interface guides the user to effortlessly set up plate-based experimentation.

- Microtiter Plate Viewer provides easy plate navigation
- Select combinations of rows, columns or individual wells
- Specify multiple fields of view to image within each well for faster data collection
- Use the Plate Review tool to play back the images collected without opening each individual file

**Related Products:** Environmental Chamber  
Stand Alone Workstation



Figure 1: DeltaVision's Microtiter Stage

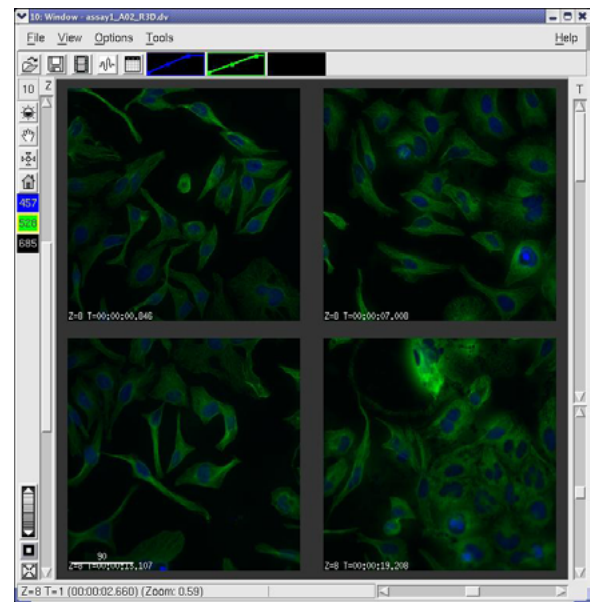


Figure 2: Four fields-of-view in one well

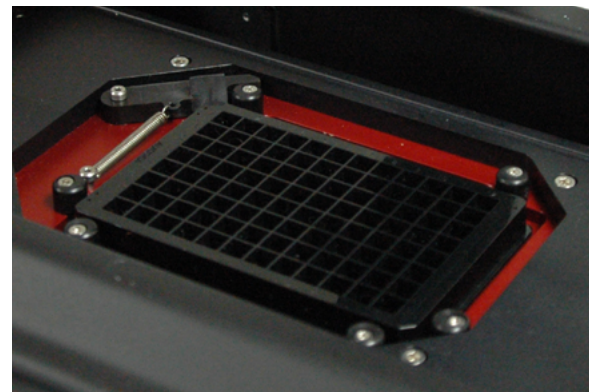


Figure 3: 96-well plate loaded into the Microtiter Stage

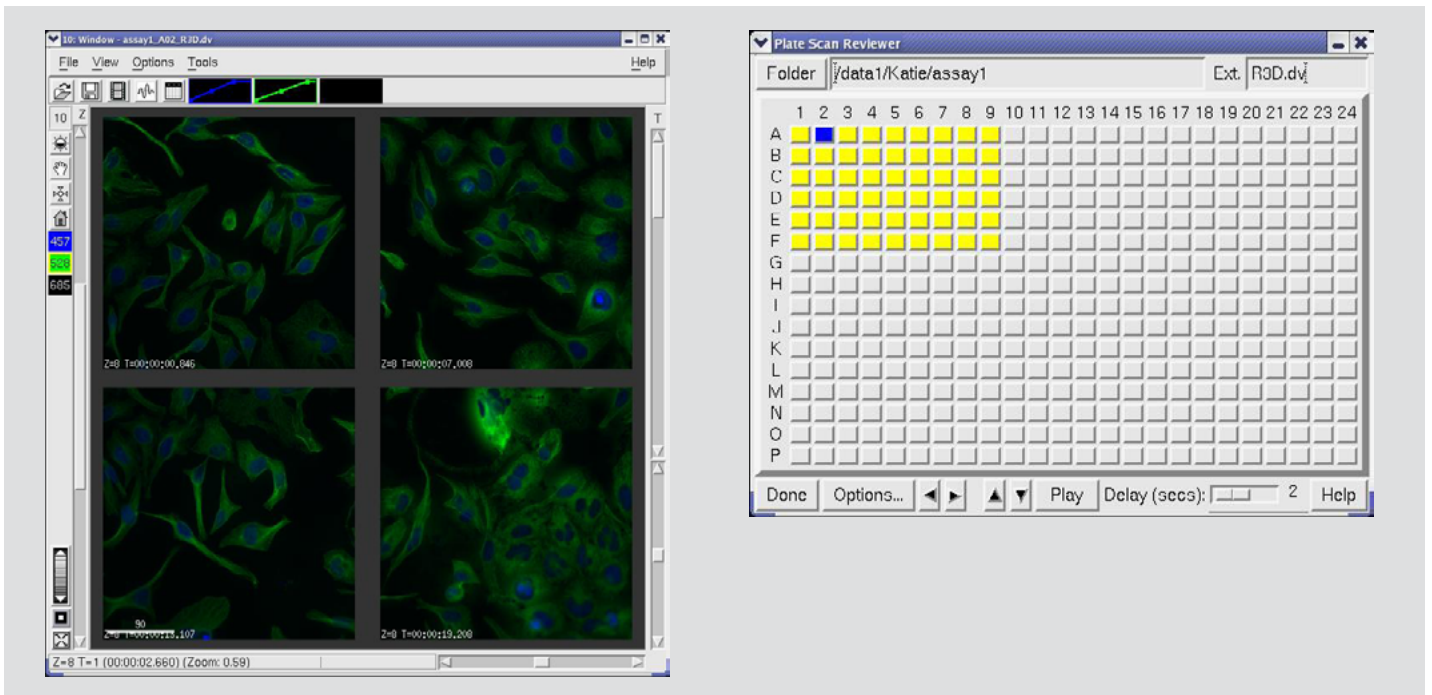


Figure 4: Microtiter Plate Review Tool - click on a well to view the fields-of-view collected or press "Play" to display them in order of acquisition

## Stage Specifications

### Microtiter Plate Mode

Absolute Accuracy < 10.0  $\mu\text{m}$  per 25 mm (X,Y)  
< 0.6  $\mu\text{m}$  per 13  $\mu\text{m}$  (Z)

Repeatability <  $\pm 0.2 \mu\text{m}$  (X,Y)  
<  $\pm 0.1 \mu\text{m}$  (Z)

Step Resolution 20 nm (X,Y)  
5 nm (Z)

Maximum Travel 106 mm (X) x 70 mm (Y)  
1 mm (Z)

Automation Control 3D with multisite visiting within well(s)

### Conventional Imaging Mode

Absolute Accuracy < 10.0  $\mu\text{m}$  per 25 mm (X,Y)  
< 0.6  $\mu\text{m}$  per 13  $\mu\text{m}$  (Z)

Repeatability <  $\pm 0.2 \mu\text{m}$  (X,Y)  
<  $\pm 0.1 \mu\text{m}$  (Z)

Step Resolution 20 nm (X,Y)  
5 nm (Z)

Maximum Travel 25 mm (X) x 50 mm (Y)  
1 mm (Z)

Automation Control 3D multisite visiting within a sample

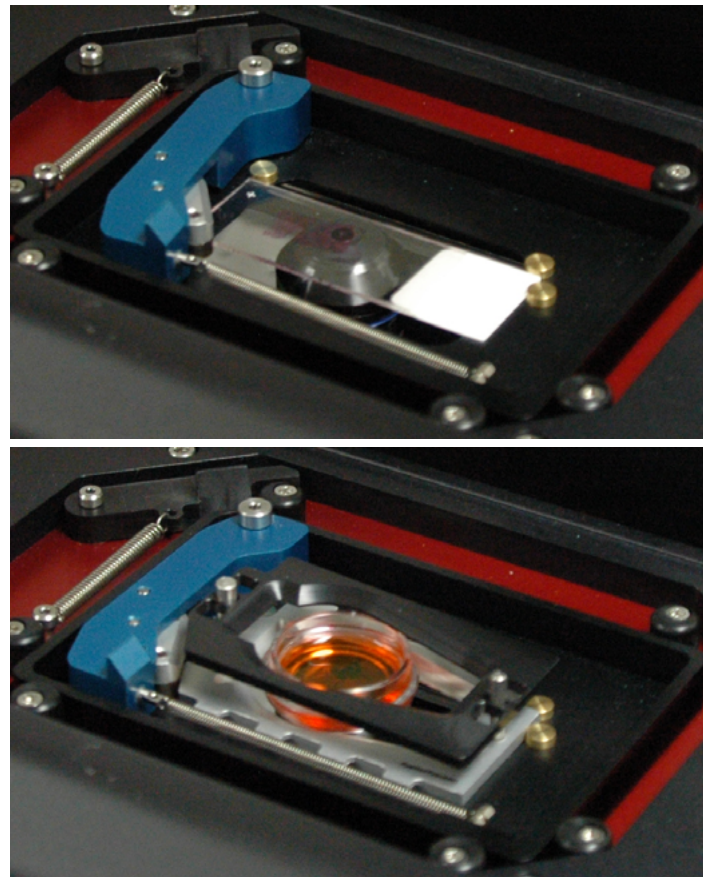


Figure 5: Slide adapter insert - image slides (above) and dishes (below)