

Microtiter Stage

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



Figure 1: DeltaVision's Microtiter Stage

Increased Efficiency

Microtiter plates 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
- Minimizing 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

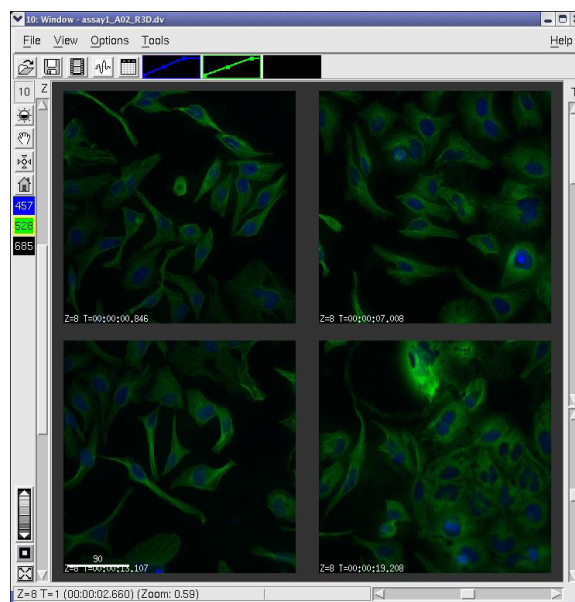


Figure 2: Four fields-of-view in one well

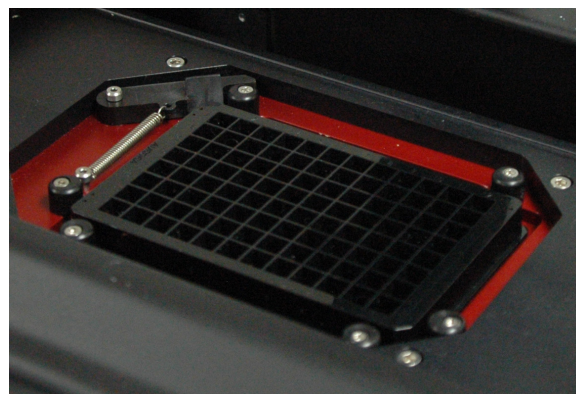


Figure 3: 96-well plate loaded into the Microtiter Stage

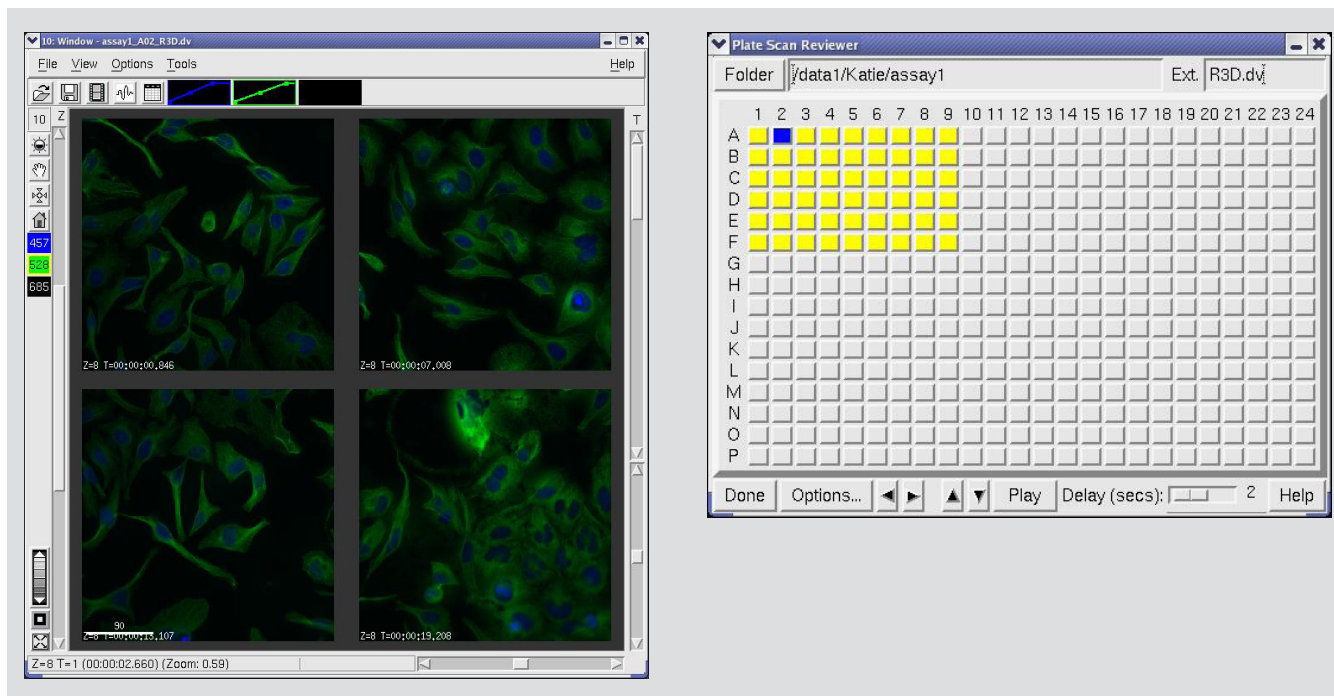


Figure 4: Microtiter Plate Review Tool - click on a well to view the fields-of-view collected or press "Play" to display them in order of acquisition

Stage Specifications

Microtiter Plate Mode

Absolute Accuracy	< 10.0 μm per 25 mm (X,Y) < 0.6 μm per 13 μm (Z)
Repeatability	< ± 0.2 μm (X,Y) < ± 0.1 μm (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 μm per 25 mm (X,Y) < 0.6 μm per 13 μm (Z)
Repeatability	< ± 0.2 μm (X,Y) < ± 0.1 μm (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

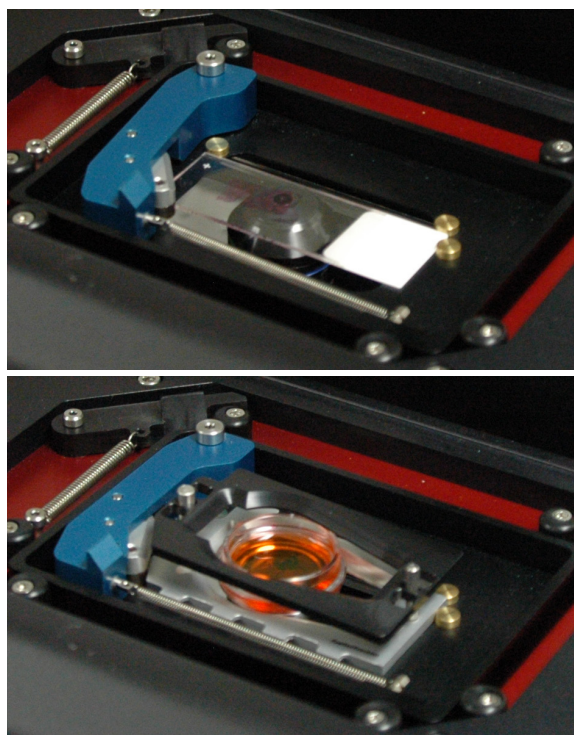


Figure 5: Slide adapter insert - image slides (above) and dishes (below)