

UltimateFocus™ Option

Image with Confidence

- Automatically maintains the sample z-position regardless of mechanical or thermal changes
- Returns to sample z-position within 25 nm* for unprecedented focus control
- Patent pending design automatically detects the coverslip surface to correct in real-time
- Continuous z-position monitoring enables accurate time-lapse data

Seamless Integration

- Intuitive user interface—simply turn the *UltimateFocus* option on and run the experiment
- Z-focus is set when the point is marked, eliminating the need to create additional offsets
- Focus correction occurs in less than 200 milliseconds—a must for time-lapse imaging
- Reliable time-lapse imaging through autonomous focus control

Comprehensive Performance

- Compatible with air, water and oil objectives used in DIC, widefield fluorescence and TIRF imaging
- Z-position is unaffected by the addition of reagents, eliminating additional focus corrections
- Z-focus is specific to the sample focal plane of each marked point minimizing interference of hardware in the field of view (e.g. fluidic systems)

Note:

- *Measurements made at 37°C with a 60X oil, 1.42NA objective
- *UltimateFocus* is patent pending
- Performance with plastic dishes may vary due to their optical properties

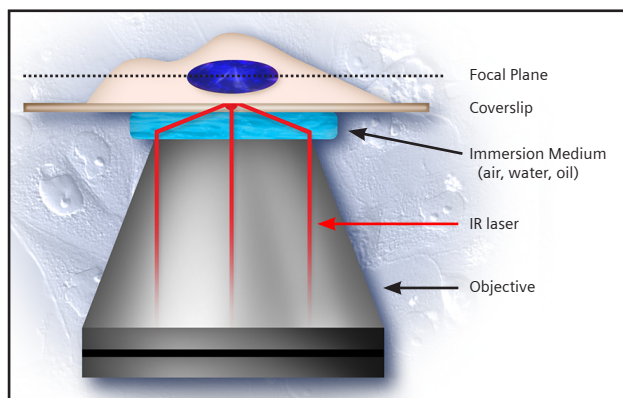


Figure 1 - *UltimateFocus* identifies the focal plane of interest unique to the sample without requiring additional offsets (patent pending)

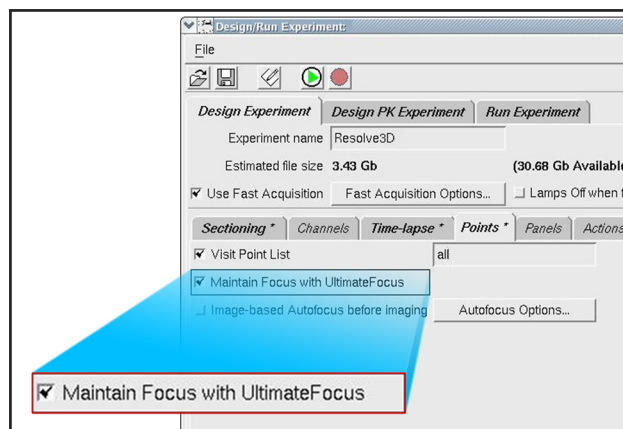


Figure 2 - Turn on *UltimateFocus* with a single button click

Specifications

Compatible microscopy modes:	Epifluorescence TIRF DIC Phase Contrast
Compatible objectives:	air oil water immersion (4X -100X)
Laser wavelength:	785 nm
Laser power:	2 mW
Laser safety standard:	Class 3R
Focusing Accuracy:	+/- 25 nm (60X oil immersion objective)
Focus time:	100 ms
Sampling rate:	30 Hz
Dimensions (approximate):	8 cm x 10 cm x 16 cm
Weight (approximate):	1100 grams