



Discover  
**revolve**  
The world's first hybrid microscope

A **REVOLUTION** HAS BEGUN

When we set out to build the Revolve, we considered every element that defines a world class microscope: Image Quality, Performance, Versatility, and Ease of Use.

As it came together, the result was something entirely new. Something radically different from anything before it – an instrument that will change the way you view science.

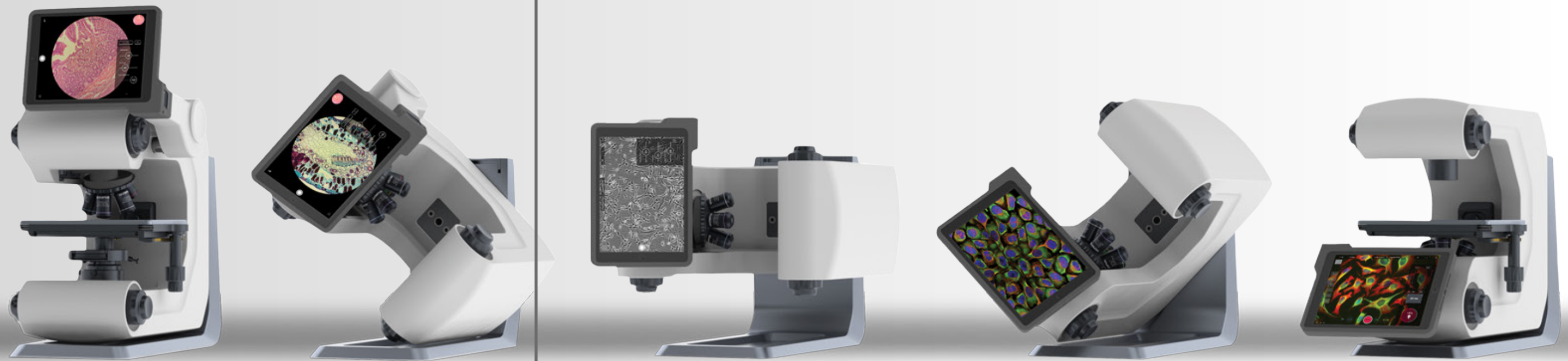




## DISCOVERY REVOLVES AROUND YOU

Despite sharing many optical components, conventional microscopes have always existed in two configurations: Upright or Inverted.

The idea behind Revolve was simple - create a single platform that can be used for both. For the first time, labs no longer have to choose between one system or the other, and users can quickly tailor their microscope to suit their specific needs.

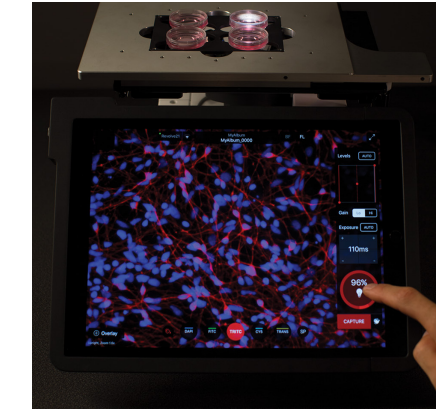




## EASY TO USE.

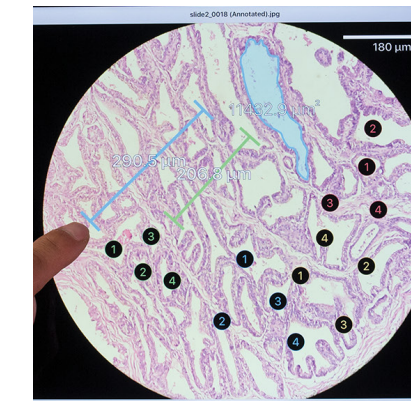
The Revolve is incredibly easy to use. You'll feel and appreciate the difference of using a familiar interface with responsive touch control.

Forget the learning curve. No longer are years of training and experience required to drive your microscope. The Revolve enables you to view and capture crystal clear publication quality images with ease.



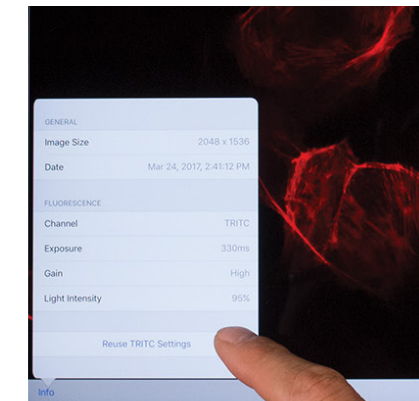
### RESPONSIVE

Touchscreen functions drive cameras and illumination, replacing manual turrets and levers



### ANNOTATIONS

No more clicking. Tap to count cells. Draw lines and regions to measure.



### REPEAT

Restore settings from previously captured images to accurately reproduce your experiments



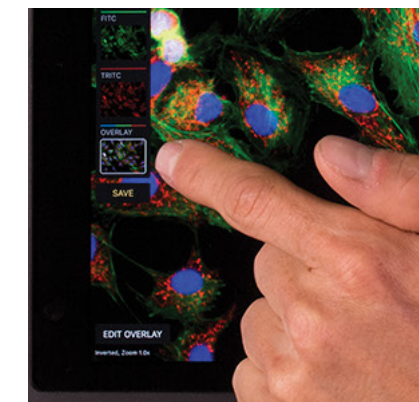
### SHARE DATA

Share findings in seconds with Dropbox™, AirDrop®, USB, and other iOS file sharing options



### PINCH TO ZOOM

Intuitive touch screen actions such as Pinch to Zoom are integrated into the Echo App



### OVERLAY

Capture and visualize overlays in seconds with a touch screen interface and motorized LED fluorescence



# CONFIGURATIONS

## Upright

Ideal for viewing glass slides.  
Clean approach to oil immersion applications.  
Useful for Water Dipping applications.  
Use with optional high resolution condenser.

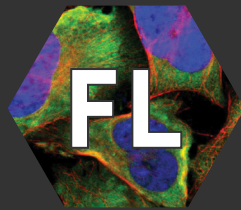


## Inverted

Designed for viewing live samples in fluidic chambers such as dishes and well plates.  
Allows for easier manipulation of samples.  
Ideal for Long Working Distance applications.

## Brightfield

Stunning detail. Perfect color.  
12 MP color camera.  
HD video, 120 fps.

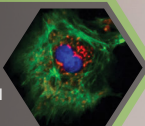


## Fluorescence

Exceptional performance.  
No Darkroom required.  
3.2 MP monochrome CMOS Camera

Image Quality  
Seeing  
is Believing.

**RETINA DISPLAY**  
High pixel density for viewing brilliant crystal clear images



**CHROMA**  
Sputter coated filter sets by Chroma® used for ultra-high throughput



**PHASE CONTRAST**  
Contrast enhancing technique to view transparent samples



**DUAL CAMERA**  
Can accommodate two separate cameras for BF and FL Imaging

**MOTORIZED LED FLUORESCENCE**  
• Ultra Bright Intensity  
• Long Term Stability  
• Mercury-free

**OLYMPUS**  
Revolve offers the full portfolio of Olympus® objective lenses

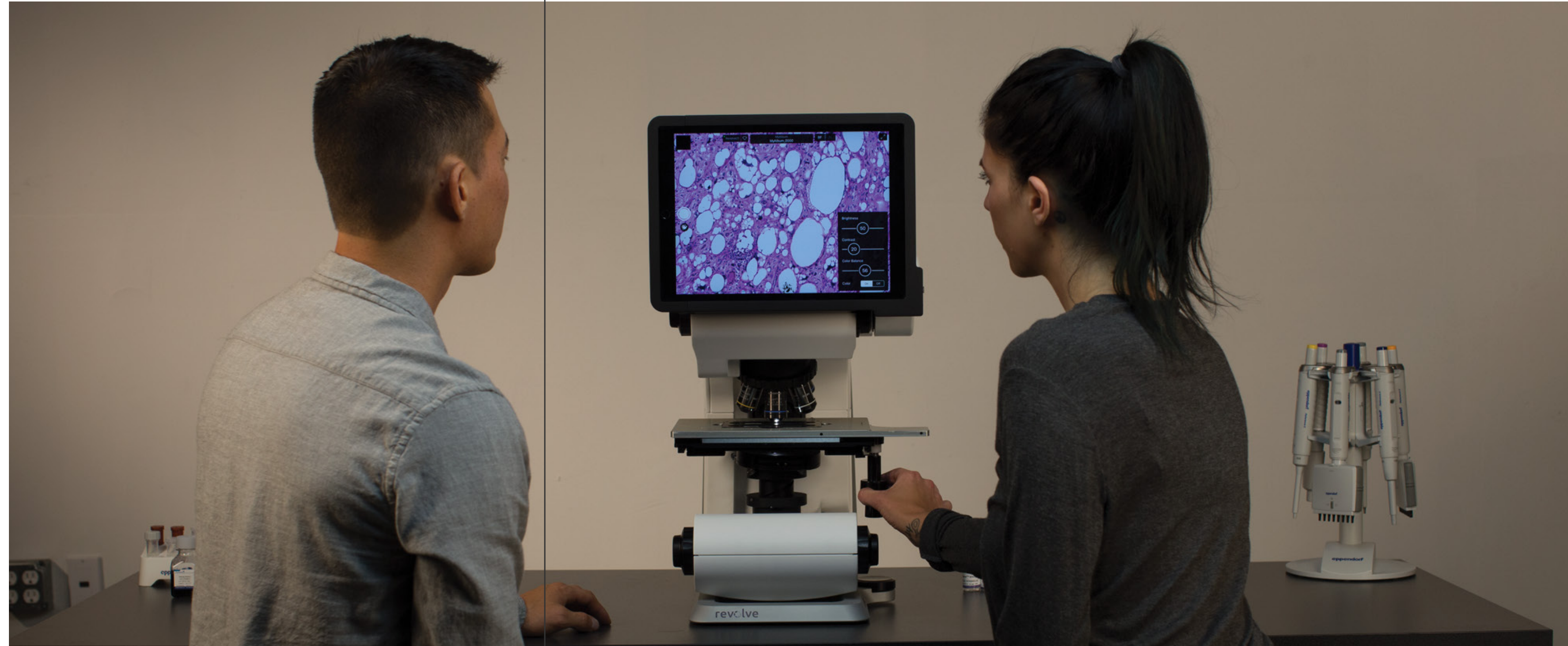
**PRECISION XY STAGE CONTROL**  
Proprietary gearless design enables smooth precise motion control





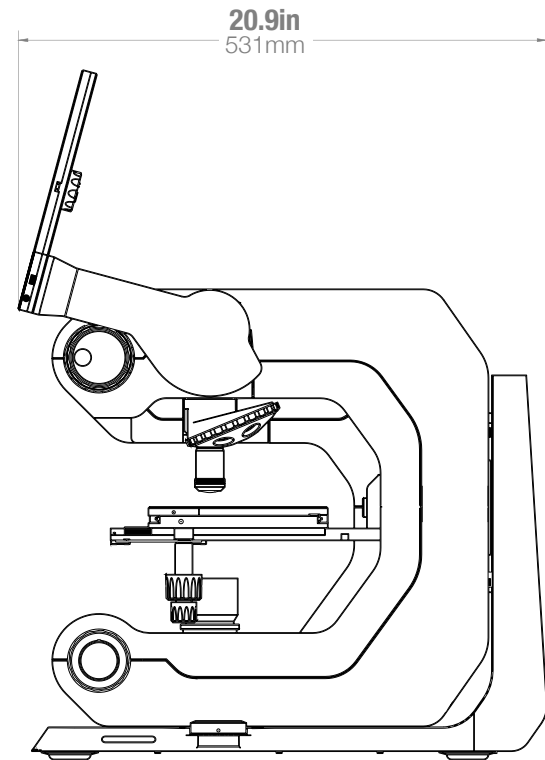
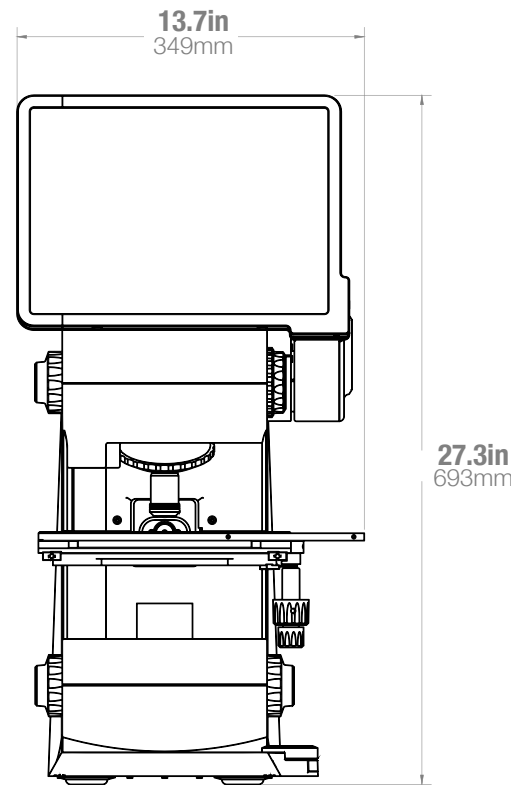
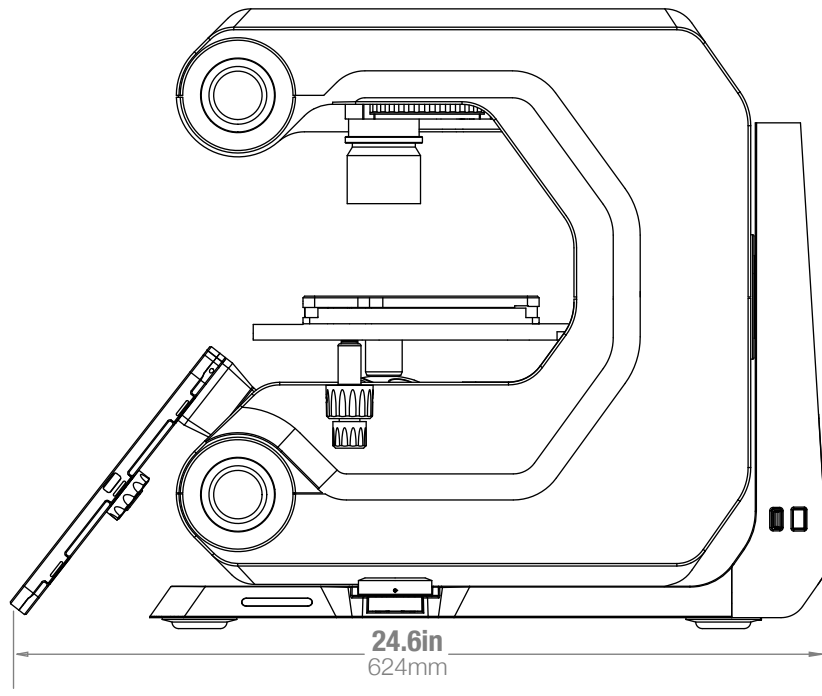
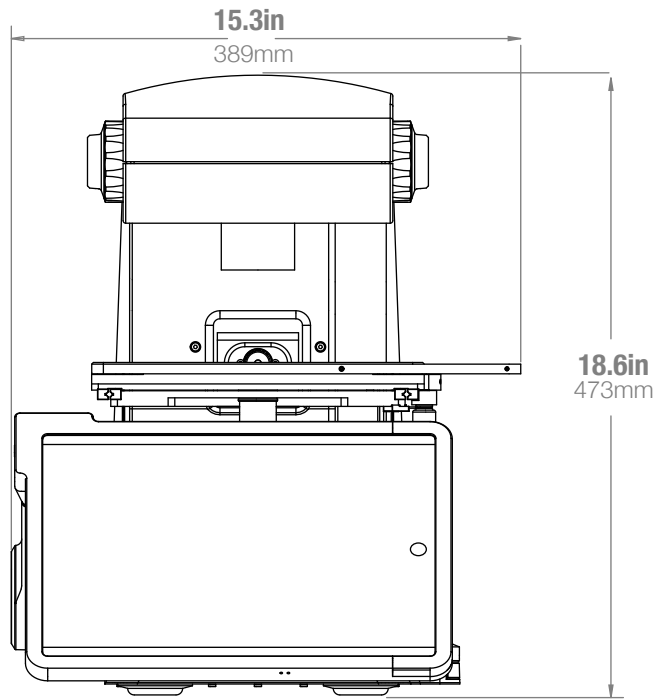
# A NEW VISION

Microscopy shouldn't be limited to a single pair of eyes. We've replaced the traditional eyepieces with a more modern approach, the iPad Pro®.





PRODUCT SPECIFICATIONS



POWER

**Voltage Input:** 100 ~ 240 VAC (50/60Hz)  
**Voltage Output:**12V  
**Current Output (Max):** 4.17A  
**Power:**50W



STAND

UPRIGHT and INVERTED observation modes  
4 accessible focus knobs for Upright and Inverted configurations  
Repeatable camera and LED light settings  
Anti-Shake feature:  
Leverages built in accelerometer to minimize the effect of external vibrations prior to image capture



SOFTWARE

Touch interface for microscope and camera control  
Measurement annotations: Length, Area, Cell Count, Scale Bar  
Touch-based cell counting tool (up to 6 different cell types)  
Customizable image overlay tools  
Downloads and updates available via App Store



OPTICS

Optical components by Olympus®  
1.25x – 100x (dry and immersion available)  
Plan Achromat, Plan Fluorite, and Plan Apochromat options  
Brightfield, Darkfield, Phase Contrast, and Fluorescence capabilities  
Extra Long Working Distance (ELWD) condenser available  
High Resolution (High N.A.) condenser available



MOTORIZED EPI-FLUORESCENCE TURRET

Ultra-bright LEDs with 50,000-hour lifespan  
Mercury-Free Illumination  
Outstanding long-term stability with precise Illumination control  
5 Imaging Channels  
• 4 Epi-Fluorescence + 1 Transmitted Light  
Sample Protect Mode – Allows the user to control sample's exposure to excitation light



CAMERAS

**Brightfield**  
• 12MP CMOS Color camera  
**Fluorescence**  
• 3.2MP CMOS Monochrome camera  
• 2048 x 1536 (Pixel size: 3.45um)



DISPLAY

12.9" Retina® Display  
2732 x 2048 (264 pixels/inch)  
Full Circular FOV (field of view) as seen through conventional eyepieces  
Touchscreen interface



DATA TRANSFER

USB  
AirDrop® (iOS and Mac)  
Seamless integration with file sharing and cloud storage apps (Dropbox™)