

Change the way you view science.



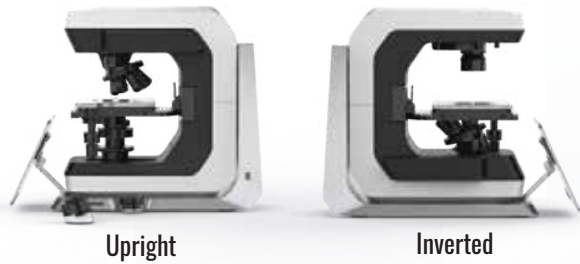
Meet Revolve.

The first and only hybrid microscope that easily transforms between upright and inverted configurations. We've replaced the eyepieces with a Retina® Display to create an experience you've never seen before.

To learn more and to build and price your microscope in minutes, visit: discover-echo.com



Product Specifications



Upright

Inverted

18.6in
472mm



23.0in
585mm

13.4in
341mm



Stand

UPRIGHT and INVERTED observation modes

Remote focus knob for fine focus, image capture and auto-exposure

Repeatable camera and LED light settings

Anti-Shake feature:
Leverages built in accelerometer to minimize the effect of external vibrations prior to image capture



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



Optics

Optical components by Olympus®

Intelligent Nosepiece informs software which objective is in use

1.25x – 100x (dry and immersion available)

Plan Achromat, Plan Fluorite, and Plan Apochromat options

Extra Long Working Distance (ELWD) condenser available

High Resolution (High N.A.) and Flip-out condenser available



Display

12.9" Retina® Display

2732 x 2048 (264 ppi)

Full Circular field of view as seen through conventional eyepieces

Touchscreen interface



Cameras

Brightfield

• 12MP CMOS Color camera

Fluorescence

• 5MP sCMOS Monochrome camera

• 2448 x 2048 (Pixel Size 3.45µm)



Software

Touch interface for microscope and camera control

Measurement annotations:
Length, Area, Manual Cell Count, Scale Bar

Digital Haze Reduction available for image enhancement

Customizable image overlay tools

Downloads and updates available via App Store



Data Transfer

USB

AirDrop® (iOS and Mac)

Seamless integration with file sharing and cloud storage apps (Dropbox™ and Box)



Z-Stack

Optional Module

Capture multiple focal planes with ease

Operates in fluorescence with multi-channel acquisition capabilities

Step sizes can be assigned by users, or defined based upon Nyquist sampling

Configurations

Upright

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

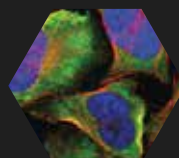


Inverted

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.



Fluorescence

Exceptional performance.
No Darkroom required.
5 MP monochrome sCMOS Camera.