

Rethink Confocal



reddot winner 2024



Meet the ECHO Confocal

Our Spinning Disk Confocal redefines the traditional complicated confocal experience to bring you high-resolution images easily by blocking out-of-focus light. Paired with our fully automated Revolution Microscope, users can easily perform multiple confocal applications, such as time-lapse, z-stack, and tiling.

To learn more and to build and price your system in minutes visit:
discover-echo.com/confocal





Confocal

Exceptional Performance.
No Darkroom required.
Blocks out-of-focus light for higher resolution images.
Image thicker samples with more clarity.
Capture and overlay multiple wavelengths.

Live Cell Imaging

Capture live samples with automated time-lapse.
Gentle on live samples for reduced photo bleaching and cellular damage to cells.

Multi-Dimensional Imaging

Stitch to form large FOV high-resolution images.
Set multiple acquisition points to view and revisit at any time.
Stack images at multiple focal points.

Confocal Specifications

Stand

Spinning Disk Confocal
INVERTED observation mode
Intelligent Nosepiece informs software which objective is in use
Motorized XYZ
Imaging Modes: Confocal, FL, BF, PC, POL

Software

Intuitive software
Automated workflow

Display

32" 4K Monitor
HP Computer
Nvidia GPU

Optics

Optical components by Olympus®
1.25x - 100x (dry and immersion available)
Plan Apochromat and Plan Fluorite options
Extra Long Working Distance (ELWD) Condenser available
Long Working Distance Universal (LWUCD) Condenser available

Automated Microscopy

Hyperscan high-speed image stitching
25mm Z-focus drive with 0.1µm resolution
XY Stage: Fast, quiet, linear shaft stage with 0.1µm encoders

Multi-Dimensional Imaging

Autofocus
Time-Lapse Imaging
Multi-Point Scanning
Mosaic tiling
Multi-Channel Acquisition
Z-Stack Capture

Cameras

4.2 MP sCMOS Monochrome Camera
• (2048 x 2048: 6.5µm pixels)
5MP CMOS Color Camera
• (2448 x 2048: 3.45µm pixels)

QE

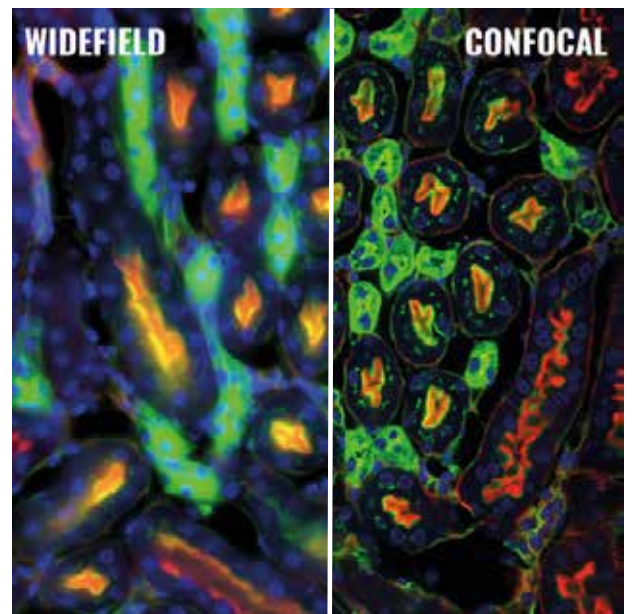
95% Quantum Efficiency
Ultra sensitive back illuminated sCMOS

Incubation

Clear visibility for sample management
Fanless: eliminating vibration for easy imaging
Easy access to samples with magnetic door
Optional Accessory

Laser Lines

405 | 488 | 555 | 640



Spinning Disk Confocal removes blur bringing more detail to your samples

