

# HS-632

High Speed Filter Wheel

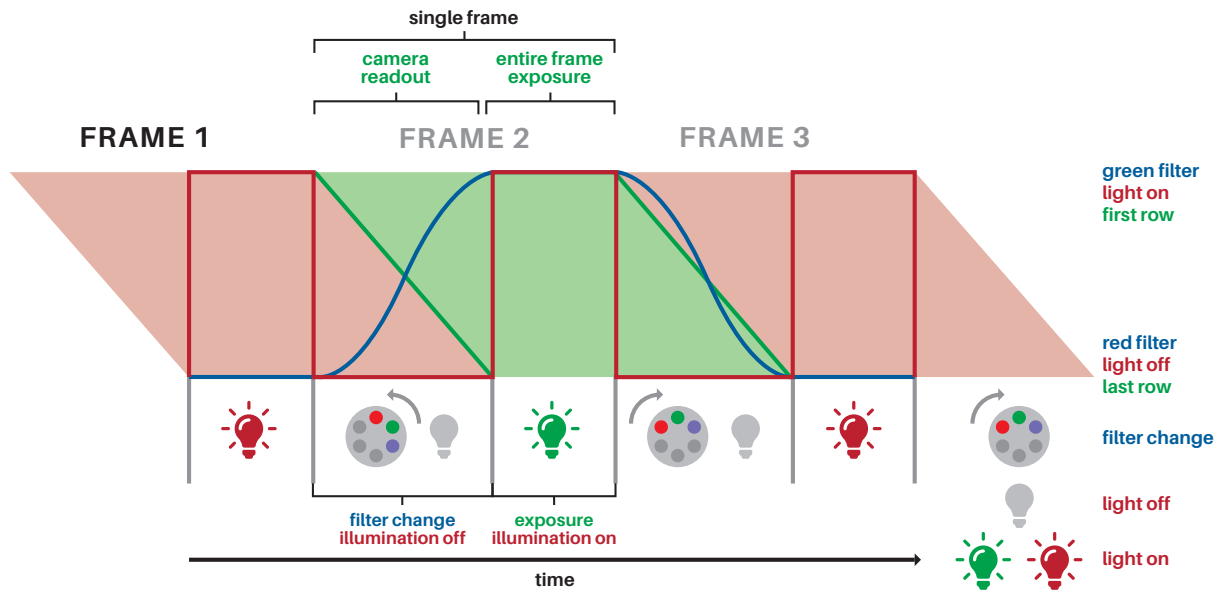
Fastest multi-color imaging for large FOV optics



## Enabling time-sensitive color image acquisition with 25mm FOV

- Nikon Eclipse Ti2 Compatibility
- Six  $\varnothing$ 32mm Filters
- 30ms Wavelength Switching
- Digital Triggering and Camera Synchronization
- F-mount Camera Interface

**ECLIPSE**  
**Ti2**



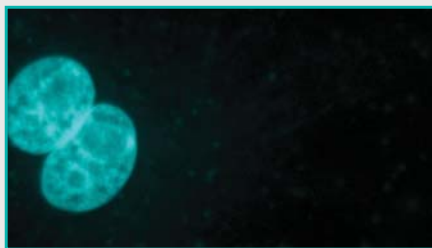
Scientific CMOS cameras operate most efficiently in rolling shutter mode in which the exposure of each individual row is delayed with respect to the previous one. As a result, events captured during camera readout may be assigned to the wrong frame in an image sequence. Correct chronology of recorded events can be preserved by turning off illumination during the readout period. By also switching filters during the readout period—which can last up to 30ms on larger sensors—the HS-632 reduces or completely eliminates delays associated with emission wavelength switching.

## The Missing Piece for Large-Format Multi-Color Experiments

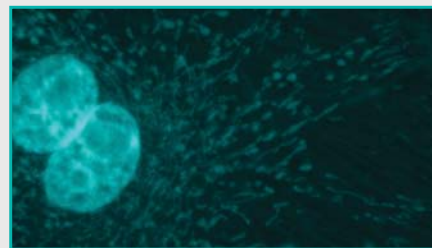
The HS-632 empowers researchers to capture superior large-format color images with unparalleled speed. It is optimized to enable a full 25mm field of view when used with the Nikon Eclipse Ti2 microscope and a large-format scientific CMOS camera.

## Improved Image Quality

The images below illustrate superior color separation in images acquired with individual emission filters compared to a single multiband emission filter.



*Individual Emission Filters*



*Single Multiband Emission Filter*