



## THE COLOR CMOS MICROSCOPE CAMERA K7

For fast color and fluorescence tissue & live cell imaging

Capture stunning fluorescence and color images with the advanced K7 CMOS camera, maximizing flexibility and productivity. Increase the power of your microscope by acquiring more data in less time with faster scan speeds and imaging dynamic events with high-temporal resolution.

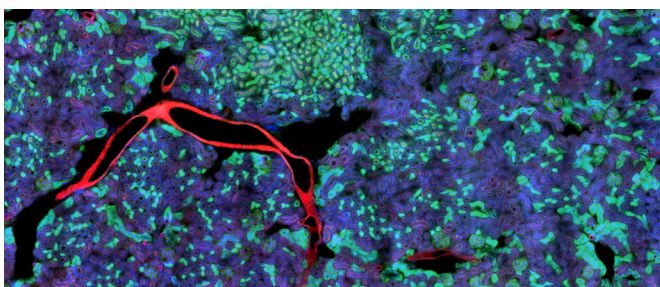
With the K7 camera you'll harness the full potential of your lab capturing both fluorescence and brightfield images in stunning detail while maximizing budget and space.

You'll maximize productivity, keep up with demand, utilize your microscope's full potential, and get more done in less time.

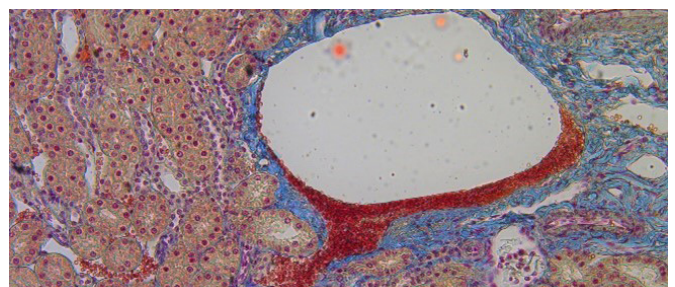
The K7 supports to achieve fast high-temporal-resolution imaging by seamlessly capturing dynamic details at higher frame rates.

### Your benefits

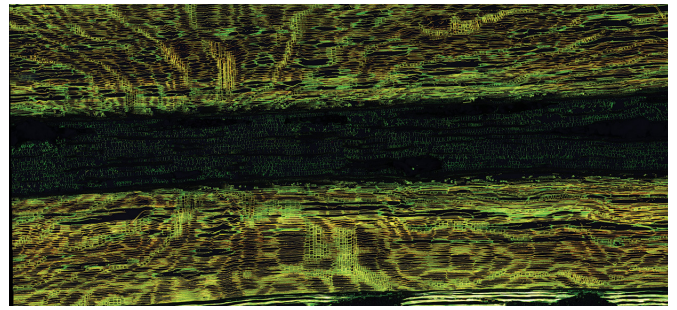
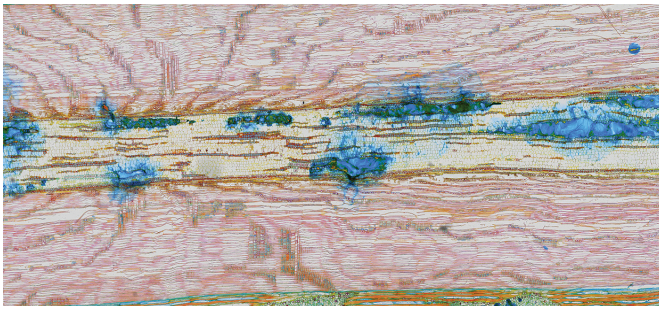
- > **Flexibility** - Stunning fluorescence and color images  
Employ the versatility of a single camera that can capture both high-quality color images and fluorescence images.
- > **Achieve More** - More data in less time  
Meet ever-increasing demands and do more with less. Turn your microscope into a high-performance, sample-scanning system.
- > **Built for speed** - Decode dynamic event  
Ability to image specimens with very high-temporal resolution on all Leica microscopes.



Kidney section stained with DAPI, WGA-AlexaFluor488 and Phalloidin-AlexaFluor568.



Cat kidney stained with Mallory's trichrome stain



## SPECIFICATIONS

Sensor type	Sony CMOS IMX420 Colour
Sensor size (diagonal)	17.6 mm
Sensor Format	3200 px x 2200 px (7.1 Megapixel)
Pixel dimensions	4.5 $\mu\text{m}$ x 4.5 $\mu\text{m}$
Shutter mode	Global shutter
Data interface	10 GigE
Mechanical interface	C-mount
Exposure range	1 ms - 30 s
Frames per second	110 fps (8-bit) at full resolution
Triggering	Yes, M8/8-Pin connector
Sensor cooling	Active thermal stabilization with Fan
Read noise	5.7 e- low gain mode 2.48 e- high gain mode
Full well capacity	24000 e- low gain mode, 10000 e- high gain mode
Dynamic range	4200:1 72dB
Bit depth / Colour depth	8-bit, 12-bit, 16-bit
Binning options	2x2 & 4x4
Optical Filter	650 nm IR cut off filter D19
Operating system	LAS X
Power consumption	24 W
Operating temperature	5 °C – 40 °C

CONNECT  
WITH US!



Leica Microsystems CMS GmbH | Ernst-Leitz-Strasse 17–37 | D-35578 Wetzlar (Germany)

Tel. +49 (0) 6441 29-0 | F +49 (0) 6441 29-2599

[www.leica-microsystems.com](http://www.leica-microsystems.com)