

From Eye to Insight

Leica
MICROSYSTEMS

LEICA DFC9000 GT LEICA DFC9000 GTC

sCMOS Microscope Camera



GET CLOSER TO REALITY

Imagine you could image live cells as close as possible to their native state. Capture even faint fluorescent signal you currently miss. And discover what happens in the time between two subsequent images. Imagine you could get a better view of what really happens in cells!

The Leica DFC9000 will turn your imagination into reality. This monochrome microscope camera with newest scientific CMOS (sCMOS) sensor technology for fluorescence imaging enables you to image your cells under near-native conditions.

- Protect your cells with short exposure times
- Capture highly dynamic processes with high-speed acquisition
- Get more information in one image with large field of view

SPECIFICATIONS

Camera type	4.2 MP sCMOS monochrome fluorescence camera
Sensor	Front-illuminated scientific CMOS CIS2020A from BAE
Shutter	Rolling shutter with global reset
Pixel	2048 x 2048 (4.2 MP); 6.5 μm x 6.5 μm pixel size
Sensor size	13.3 x 13.3 mm (~19 mm diagonal)
Speed of acquisition*	50 fps (USB 3.0); >90 fps (Camera Link)
Maximum quantum efficiency	~82% @ 580 nm
Bit-depth	12 bit / 16 bit
Cooling	0°C @ 27°C ambient, air-cooled
Binning (hardware binning)	2x2, 3x3, 4x4, 8x8
Partial scan	Freely definable region of interest (ROI), combination with binning possible
Internal memory	1 GB
Dark current	~ 0.14 e ⁻ /px/sec
Read noise	0.9 e ⁻
Dynamic range	1 : 33000
Pixel clocking rate	540 MHz / 216 MHz
Supported operating systems	Windows 7 and Windows 8
Software	Leica Application Suite (LAS) X
C-mount	1x for inverted and upright compound microscopes
Interfaces	USB 3.0 or Camera Link
Camera package	Camera package includes camera head, cables and PCIe board, LAS X DVD, and instructions for use

* depends on software in use

