



MOTICAM

**Motic**<sup>®</sup>

MORE THAN MICROSCOPY



# MOTICAM S SERIES

HIGH GRADE sCMOS CAMERAS FOR AN ULTIMATE IMAGING RESULT



### THE STARTING POINT

Moticam S1 is the entry model for back-illuminated sensor technology and speedy data transfer (with frame rates up to 120 fps\*), with easy image setting and capturing. Create your perfect images for a professional database.



### A GOOD BALANCE

Moticam S3 performs a mid-size resolution of 3MP, the data volume is keeping the balance between speed and resolution. A flexible tool for education and routine lab, for biomedical environments and industry. The sCMOS sensor guarantees state of the art imaging results for an unbeatable price.



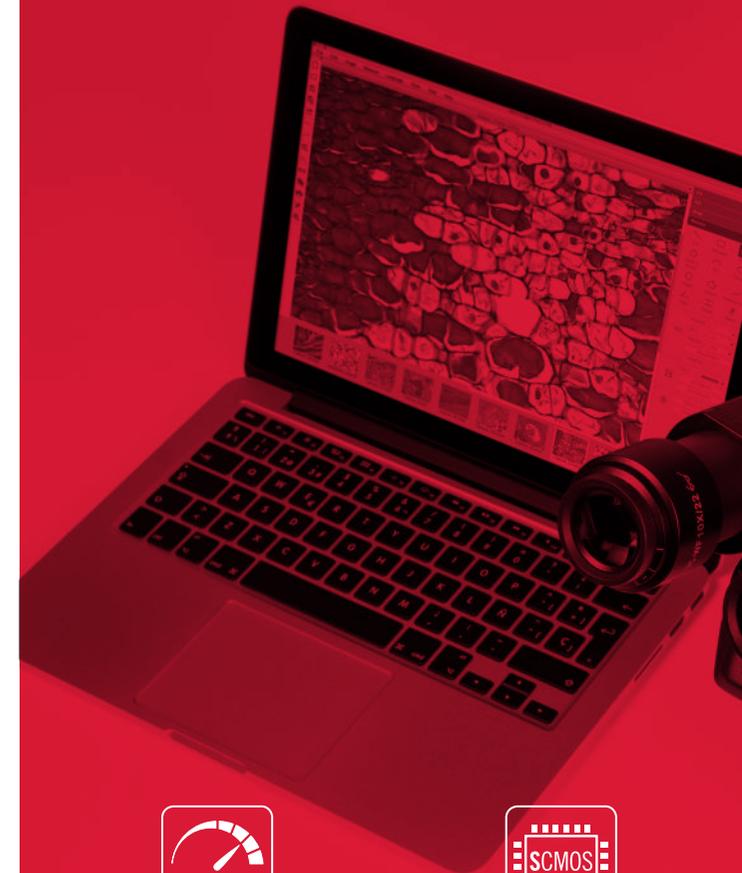
### FOR A GREATER PUBLIC

The 6MP resolution of Moticam S6 is targeted to large-sized monitors and printing purposes. Presentations to a greater audience through video projector, reports in hardcopy are performed with ease of handling. The price/performance ratio is remarkable!



## NEW MOTICAM S SERIES

Motics new sCMOS cameras, designed by German engineers and manufactured by professionals represent an impressive impetus to microscope camera performance. With a member of this product line the door for new application fields opens wide. The accelerated data readout enables to work on fast phenomena in biology and industry.



FAST FRAME RATES



sCMOS SENSORS

## MOTIC IMAGES PLUS 3.0 SOFTWARE

Our well-known Motic Images software, always with a cost-free upgrade option is included in all camera packages and enables to view images at maximum quality, capture, edit, measure and report the result... all these features are ready to work on your PC or laptop.



USB 3.1 INTERFACE

MIP 3.0 SOFTWARE

### MAXIMUM DETAILS

If it is about maximum resolution for display or printing, Moticam S12 is your choice. A 25 fps\* frame rate manages the largest data volume of all Moticam S models. If the tiniest detail is in your focus, Moticam S12 is your solution.



### LOW LIGHT, FAST PHENOMENA

Moticam Pro S5 Lite delivers a 5MP mid-size resolution for all biological/medical fields, showing a premium sensitivity for lowlight situations in Fluorescence and Polarization. The Global shutter data readout helps to accelerate data transfer from fast phenomena, from single-cell organisms to industrial work with clockworks or extrusion processes.



### AN ULTIMATE SOLUTION, STILL AFFORDABLE

Moticam Pro S5 Plus carries a large 2/3" sensor with 5MP resolution at a maximized frame rate of 70 fps\* in full resolution. This camera covers all important aspects of imaging: resolution for detail information, speed for fast phenomena and a large sensor to cover extended areas in a single shot.



\*Frames per second under optimal lighting conditions and in compliance with computer technical requirements.

| MODEL                         | S1  | S3                  | S6                  | S12                 | PRO S5 LITE          | PRO S5 PLUS          |
|-------------------------------|---|---------------------|---------------------|---------------------|----------------------|----------------------|
| Sensor type                   | sCMOS   | sCMOS               | sCMOS               | sCMOS               | sCMOS                | sCMOS                |
| Sensor size                   | 1/3"  | 1/2.8"              | 1/1.8"              | 1/1.7"              | 2/3"                 | 2/3"                 |
| Imaging area                  | 6.09mm (Diagonal)   | 6.44mm (Diagonal)   | 8.92mm (Diagonal)   | 9.33mm (Diagonal)   | 11.1mm (Diagonal)    | 11.1mm (Diagonal)    |
| Capture resolution            | 1.2MP   | 3MP                 | 6MP                 | 12MP                | 5MP                  | 5MP                  |
| Live display mode through USB | 1280x960  | 2048x1536           | 3072x2048           | 4000x3000           | 2448x2048            | 2448x2048            |
|                               | 640x480   | 1920x1080           | 1536x1024           | 2048x1080           | 1224x1024            | 1224x1024            |
| Pixel size                    | 3.75x3.75µm   | 2.5x2.5µm           | 2.4x2.4µm           | 1.85x1.85µm         | 3.45x3.45µm          | 3.45x3.45µm          |
| Scan mode                     | Progressive   |                     |                     |                     |                      |                      |
| Shutter mode                  | Rolling Shutter   |                     |                     |                     | Global Shutter       |                      |
| Data transfer                 | USB 3.1   |                     |                     |                     |                      |                      |
| Max. frames per second (fps*) | 1280x960 @ 120fps   | 2048x1536 @ 60fps   | 3072x2048 @ 30fps   | 4000x3000 @ 25fps   | 2448x2048 @ 37.5fps  | 2448x2048 @ 68.3fps  |
|                               | 640x480 @ 240fps  | 1920x1080 @ 60fps   | 1536x1024 @ 50fps   | 2048x1080 @ 50fps   | 1224x1024 @ 88.4fps  | 1224x1024 @ 175.8fps |
| Exposure time                 | 15 µsec to 2 sec  | 21 µsec to 2 sec    | 16 µsec to 2 sec    | 22 µsec to 2 sec    | 14 µsec to 2 sec     | 7 µsec to 2 sec      |
| Operating temperature         | From -10 to +60 Degrees Celsius non condensing  |                     |                     |                     |                      |                      |
| Sensitivity                   | 2350mV(G) @ 1/30 sec  | 600mV(G) @ 1/30 sec | 425mV(G) @ 1/30 sec | 280mV(G) @ 1/30 sec | 1146mV(G) @ 1/30 sec | 1146mV(G) @ 1/30 sec |
| Support device                | TWIN, SDK and DirectShow Driver   |                     |                     |                     |                      |                      |
| Supported OS                  | Microsoft Windows 7/8/10, MAC OSX10.9, Linux or higher  |                     |                     |                     |                      |                      |
| Minimum computer requirements | 2GHz dualcore - RAM memory 2GB - Video memory min. 512 MB   |                     |                     |                     |                      |                      |
| Lens mount                    | C-Mount   |                     |                     |                     |                      |                      |
| Software                      | Motic Images Plus 3.0 for Windows, OSX and Linux  |                     |                     |                     |                      |                      |
| Functions                     | Still image and video capture, live and still image measurement, image adjustments, white balance, automatic & manual exposure, individual objective calibration system |                     |                     |                     |                      |                      |
| Power supply                  | 5V (from USB Port)  |                     |                     |                     |                      |                      |
| Package includes              | CS ring adaptor, USB 3.1 cable, Motic 4-dot calibration slide, Motic Images Plus 3.0 for PC/OSX/Linux   |                     |                     |                     |                      |                      |

\*Frames per second under optimal lighting conditions and in compliance with computer technical requirements.

[www.moticmicroscopes.com](http://www.moticmicroscopes.com)

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