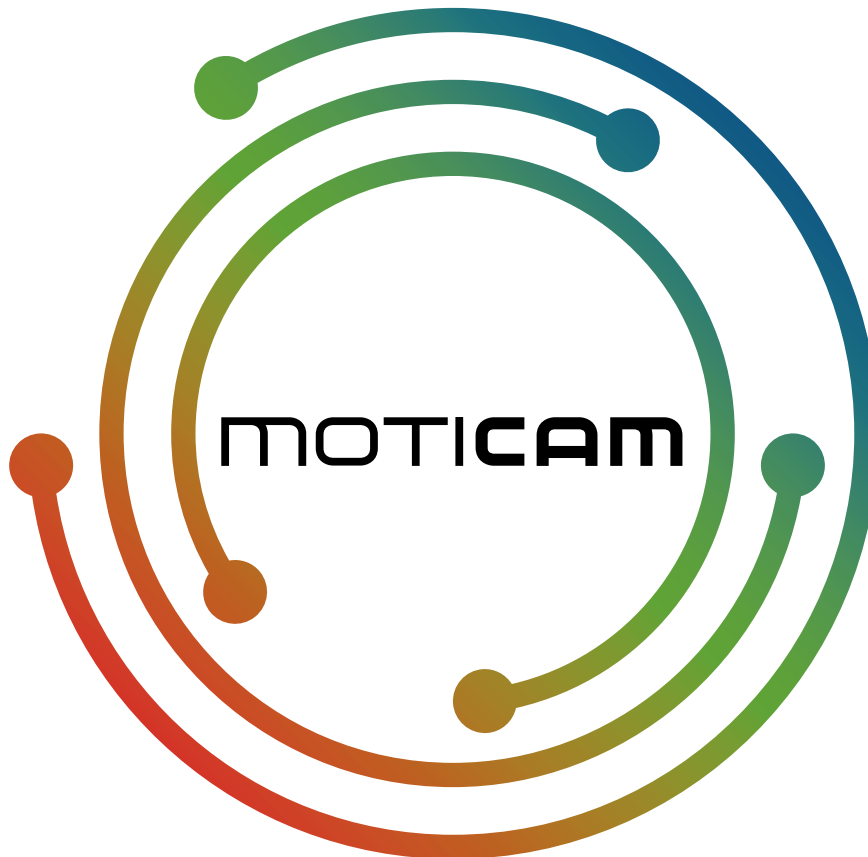


Motic®

MORE THAN MICROSCOPY



THE **NEXT**
GENERATION MOTICAM

High Performance - sCMOS Technology



The new Moticam S line of cameras marks yet another milestone of Motic's digital microscopy expansion. By using the latest sCMOS sensors coupled with our own PCB design and on-board image management systems, each Moticam S promises to deliver professional digital microscopy solutions at an affordable price. The Moticam brand is recognized around the world as representing easy to use and adaptable attachable cameras for virtually any microscope. Whether for Educational, Industrial or Clinical use, this new generation of Moticam has a unit for even the most demanding users. Manufactured in our new advanced facilities, each Moticam undergoes strict quality inspections and testing before being sealed, packed and delivered to your door. At Motic, we believe in making quality Digital Microscopy affordable for everyone and we know that you will enjoy this new line.

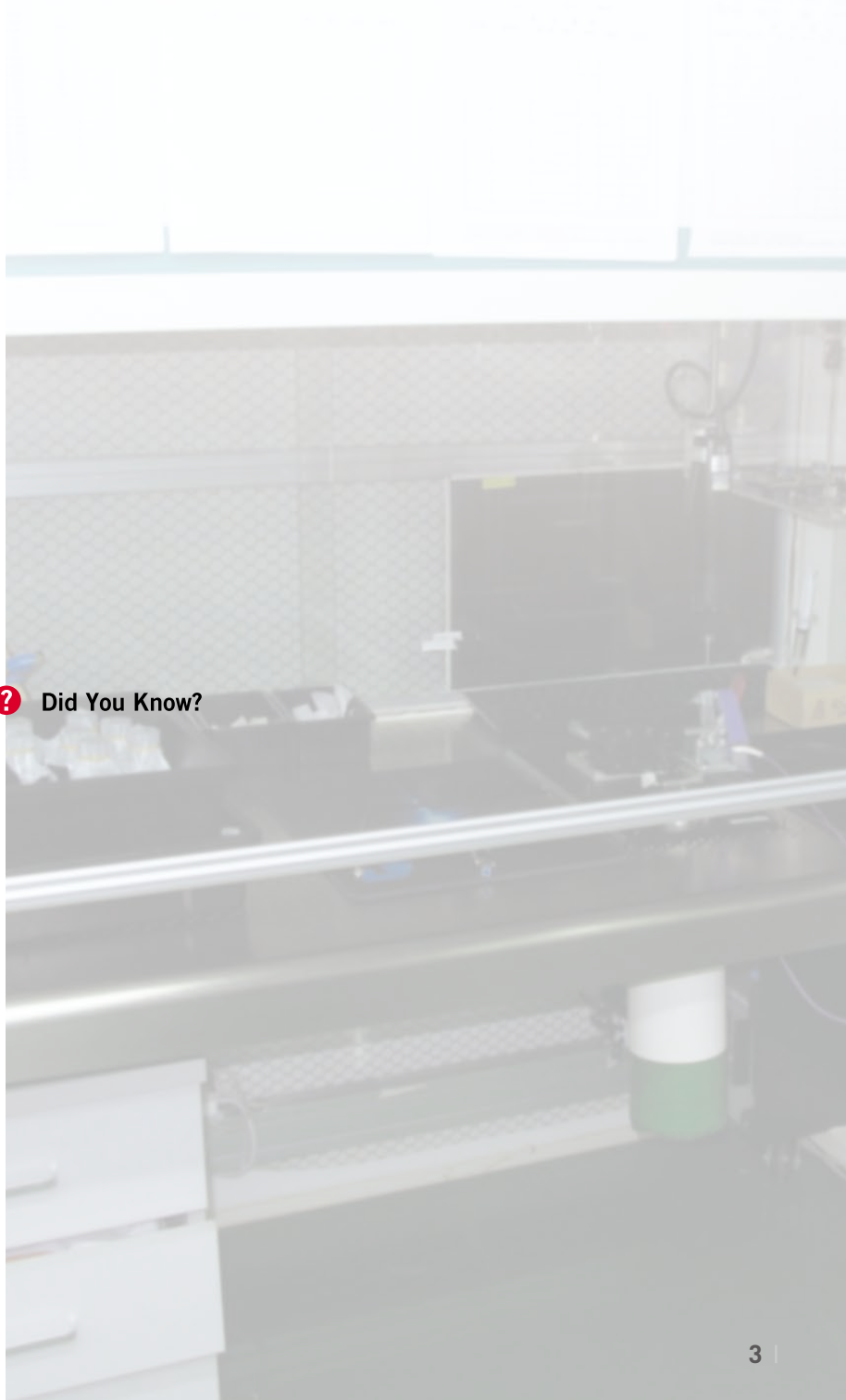


? Did You Know?

The brand new Moticam S line features compact, precision-cut all-metal housing for superior shielding and heat management.

The new Moticam S line is designed and manufactured totally in-house under strict German quality guidelines. Motic has not only invested in acquiring and perfecting new know-how, but also in modernizing and expanding our internationally conforming clean-room facilities”

? Did You Know?





THE [Split-BOX] CONCEPT

At Motic we strive to ensure that everything you may need to start your Digital Microscopy journey is included, without adding unnecessary items. Supported by our own In-House team of Software and Mechanical Engineers, **each Moticam has the necessary equipment to help you turn your images into knowledge.**

SEE WHAT YOUR MOTICAM BOX INCLUDES



An attachable camera containing a sensitive professional sCMOS imaging chip housed in an all-metal case.



A metal C-Ring making the camera compatible with both C and CS mounts.



A Motic 4-dot calibration slide with micrometer cross-hairs that ensure accurate calibration for accurate measurements.



A USB3.0 High-Speed data transmission cable



A full version of our multi-language and multi-platform Motic Images Plus application software which provides all the tools you need to quantify, measure, annotate, teach, learn and much more. This software entitles you to free updates and does not require any license fees.

? Did you know?

If you are looking for the **focusable lens, macro tube and eyepiece adapters**, these are available separately in our Moticam S Accessories Kit.

Table of Contents

Moticam S1	6
Moticam S3	6
Moticam S6	7
Moticam S12	7
Moticam Pro S5 Lite	8
Moticam Pro S5 Plus	8
Connect your Moticam S	9
Motic Images Plus	10
Technical Data	12
Note	14

Contents



MOTICAM S1

MOTICAM S3

The new MotiCam S line starts with the S1 with its 1.2MP sensor with large pixels. This little camera packs a punch with up to 120fps at full resolution or up to 240fps in binning mode. The S3 promises crisp and detailed images thanks to its higher live resolution and fast frame rate even at 2048x1536 pixels.

MotiCam S1 Specifications:

- Live Resolution: 1280x960 pixels
- Sensor Type: 1/3" sCMOS
- Pixel Size: 3.75x3.75 micron
- Maximum FPS: 120fps

MotiCam S3 Specifications:

- Live Resolution: 2048x1536 pixels
- Sensor Type: 1/2.8" sCMOS
- Pixel Size: 2.5x2.5 micron
- Maximum FPS: 60fps





MOTICAM S6

MOTICAM S12

If it is more pixels you are looking for, look no further than the S6 and S12. With 6MP and 12MP live transmission, either one of these two power cameras provide an ideal platform for high-resolution imaging.

MotiCam S6 Specifications:

- Live Resolution: 3072x2048
- Sensor Type: 1/1.8"
- Pixel Size: 2.4x2.4 micron
- Maximum FPS: 50fps

MotiCam S12 Specifications:

- Live Resolution: 4000x3000 pixels
- Sensor Type: 1/1.7"
- Pixel Size: 1.85x1.85 micron
- Maximum FPS: 50fps
- Available in Q1 2020





MOTICAM ProS5 Lite

MOTICAM ProS5 Plus

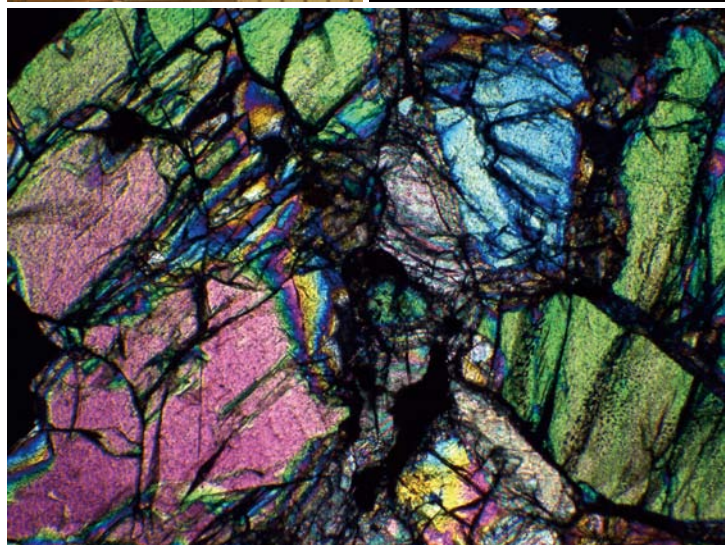
The Pro S5 line is ideal for your fluorescence microscopy needs. Delivering CCD like performance in an sCMOS price-bracket, the Pro S5 line is available in Lite and Plus versions featuring Global Shutter technology as well as large pixels and up to 175fps.

Moticam Pro S5 Lite Specifications:

- Live Resolution: 2448x2048 pixels
- Sensor Type: 2/3"
- Pixel Size: 3.45 micron
- Maximum FPS: 88fps

Moticam Pro S5 Plus Specifications:

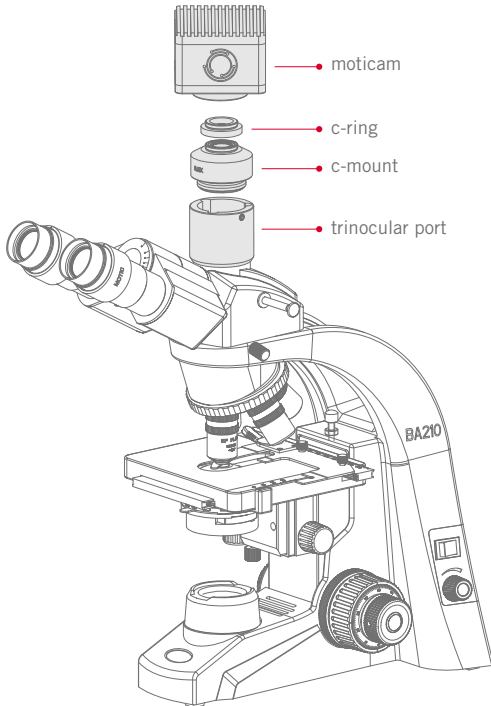
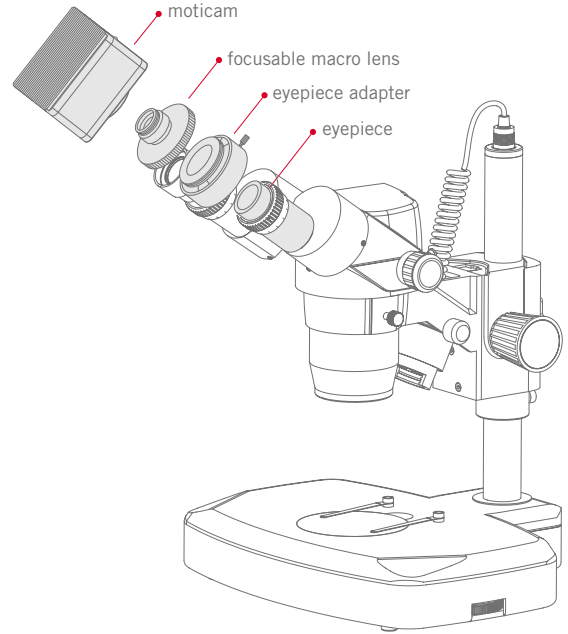
- Live Resolution: 2448x2048 pixels
- Sensor Type: 2/3"
- Pixel Size: 3.45 micron
- Maximum FPS: 175fps



Connect your Moticam S

Onto the Eyepiece

With the optionally available **Moticam S** Accessories Pack, you can attach the Moticam S onto the eyepiece of almost any microscope. Simply **connect the focusable macro lens to the camera and select the correct eyepiece coupler** for your microscope's eyepiece. Put the complete combination **onto the eyepiece** and you have turned your conventional microscope into a **digital microscope**.



Connect your Moticam S

Onto the trinocular tube

For all our Motic trinocular microscopes, we have several C-Mount adapters available. The **C-Mount adapter needs to be chosen according to the sensor size of the camera**. Each **Moticam S** comes standard with a CS/C-Mount connection; the **c-ring** is included in the package. Just **fix the C-Mount adapter onto the trinocular port and connect the Moticam S to the C-Mount adapter**. This combination will give you the freedom to continue observing with both eyes, while having the **Moticam-S** connected. Our cameras can also be used on non-Motic microscopes, via the **universal C-Mount connection standard**. Please remember that you will need the C-Mount adapter from the manufacturer of your microscope.

Motic Images Plus

Motic Images Plus for PC is a software suite that has evolved through more than a decade of close cooperation with end-users and professionals around the world. At Motic, we believe that actions speak louder than words, and this is why **a full version of Motic Images Plus is included in every Moticam box**. Once installed, you will not be asked to pay license fees or upgrade fees, simply register your Moticam online and get access to **free updates** when they become available.

Motic Images Plus consists of two main components, the Image Capture Interface (MI Devices) and the actual **captured image application program**.

The Image Capture Interface is a separate program through which the live image can not only be perfected with the multitude of adjustment features, but it can also be used as a teaching device thanks to its calibrated scale bars, grid, and cross bars.

Capturing the perfect image is vital for all applications. For this reason, the **MI Devices interface** is also available whether the Moticam is used as a Direct Show or a TWAIN device. Whether you are using the Moticam in its easy-to-use Automatic mode or you are controlling each aspect of your image stream, this interface will satisfy all users.

Once the image has been captured it is automatically transferred to the Images Plus application program where Measurement, Annotation and Reporting Tools can be used to **turn images into knowledge**. With the proliferation of touch-screen monitors and interactive whiteboards, we have also optimized our interface to make it easier to use these technologies with our Moticams.



MI Devices interface



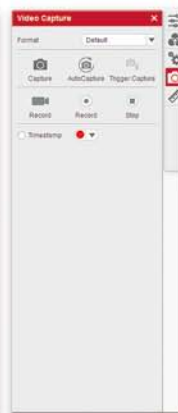
*MI Devices interface
Video*



*MI Devices interface
Color correction*



*MI Devices interface
Adjustments*



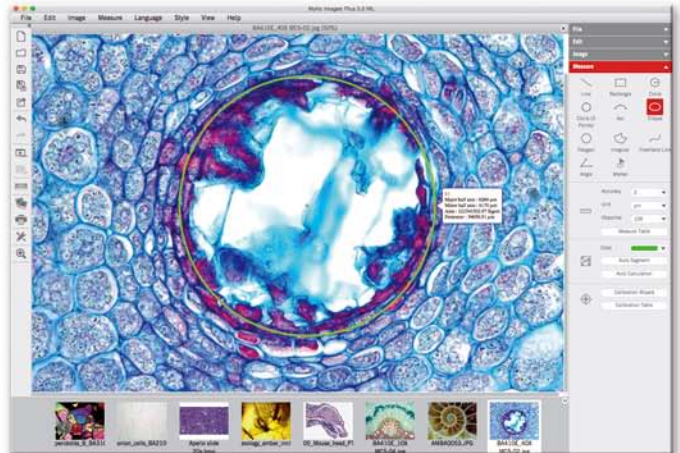
*MI Devices interface
Capture*



*MI Devices interface
Measure*



Motic Images Plus 3.0 - Measurements



Motic Images Plus 3.0 - Measurements

Technical Data

Moticam	S1	S3	S6
Sensor Type	sCMOS		
Sensor Size	1/3"	1/2.8"	1/1.8"
Resolution	1.2M	3M	6M
Imaging Area (Diagonal)	6.09 mm	6.44 mm	8.92 mm
Pixel Size	3.75 μ m x 3.75 μ m	2.5 μ m x 2.5 μ m	2.4 μ m x 2.4 μ m
Max. Frame Rate	1280 x 960 @ 120 fps 640 x 480 @ 240 fps	2048 x 1536 @ 60fps 1920 x 1080 @ 60fps	3072 x 2048 @ 30fps 1536 x 1024 @ 50fps
Scan Mode	Progressive		
Shutter Mode	Rolling Shutter	Rolling Shutter	Rolling Shutter
Data Transfer	USB3.1		
Exposure Time	15us ~ 2sec	21us ~ 2 sec	16us ~ 2sec
Sensitivity (G)	2350 mV @ 1/30 sec	600 mV @ 1/30 sec	425 mV @ 1/30 sec
Focusable Lens	12mm	12mm	16mm
Power consumption	less1.0W@ 5V (USB-supply)	less1.0W@ 5V (USB-supply)	less1.0W@ 5V (USB-supply)
Lens Mount	CS-Mount		
Support Device Supported OS (Recommended)	TWAIN, SDK and DirectShow Driver Higher than Microsoft Windows7/8/10, MAC OSX10.9 and Linux		
Minimum Computer Requirements (Recommended)	2GHz Dualcore, RAM memory 2GB and Video Memory Min 512MB		
Operating Temperature	From -10 to + 60 degree celsius non condensing		
Package Includes	CS Ring Adaptor, Calibration Slide, USB3.1 cable, Image Plus 3.0 for PC / OSX / Linux (Accessories Package) Focusable Lens, 30mm and 38mm Eyepiece Adapter, Macro Tube and Macro Tube Calibration dot		

**frames per second under optimal illumination conditions*

S12	ProS5 Lite	ProS5 Plus	Moticam
	sCMOS		Sensor Type
1/1.7"	2/3"	2/3"	Sensor Size
12M	5M	5M	Resolution
9.33 mm	11.1 mm	11.1 mm	Imaging Area (Diagonal)
1.85µm x 1.85µm	3.45µm x 3.45µm	3.45µm x 3.45µm	Pixel Size
4000 x 3000 @ 25 fps	2448 x 2048 @ 35.7fps	2448 x 2048 @ 68.3fps	Max. Frame Rate
2048 x 1080 @ 50 fps	1224 x 1024 @ 88.4fps	1224 x 1024 @ 175.8fps	
	Progressive		Scan Mode
Rolling Shutter	Global Shutter	Global Shutter	Shutter Mode
	USB3.1		Data Transfer
22us~2sec	14us ~ 2 sec	7us~2sec	Exposure Time
280 mV @ 1/30 sec	1146 mV @ 1/30 sec	1146 mV @ 1/30 sec	Sensitivity (G)
16mm	16mm	16mm	Focusable Lens
less1.0W@ 5V (USB-supply)	less1.5W@ 5V (USB-supply)	less1.5W@ 5V (USB-supply)	Power consumption
	CS-Mount		Lens Mount
	TWAIN, SDK and DirectShow Driver		Support Device Supported OS
	Higher than Microsoft Windows7/8/10, MAC OSX10.9 and Linux		(Recommended)
	2GHz Dualcore, RAM memory 2GB and Video Memory Min 512MB		Minimum Computer Requirements
			(Recommended)
	From -10 to + 60 degree celsius non condensing		Operating Temperature
	CS Ring Adaptor, Calibration Slide, USB3.1 cable, Image Plus 3.0 for PC / OSX / Linu (Accessories Package) Focusable Lens, 30mm and 38mm Eyepiece Adapter, Macro Tube and Macro Tube Calibration dot		Package Includes





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