

**Motic®**

MORE THAN MICROSCOPY



# SM7 SERIES

SUPERIOR STEREO MICROSCOPE SOLUTION FOR ADVANCED DEMANDS

# SM7 SERIES

SUPERIOR STEREO MICROSCOPE SOLUTION  
FOR ADVANCED DEMANDS

The SM7 Series is a modern approach for an ergonomic stereo microscope with remarkable features. This new member of the Motic Stereo family offers new options for a relaxed and efficient daily work.



## Galilean Optical System

The Galilean Optical Zoom System, meaning Infinity Optical System, allows highest flexibility for scientific tasks. The optical setup can be varied by easily exchanging eyepieces and/or objectives. For best possible image results, a Plan-Apochromatic objective 1X (WD 81mm) is available. The standard eyepieces 10X/22 offer a diopter adjustment range of +/- 5, allowing to insert reticles for visual measurements.



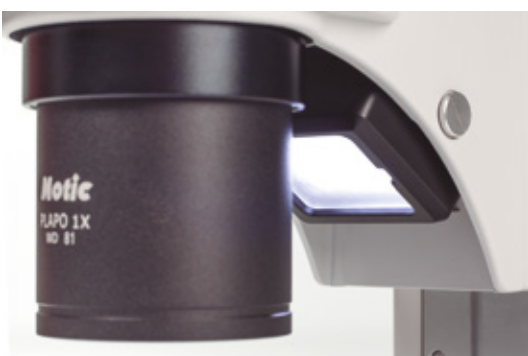
## Zoom Ratio

The Zoom range of 7:1 displays a standard magnification range of 8X-56X, while displaying a 22mm Field of View. Moreover, the smooth Zoom can be divided by activating a 10-step click stop, an optimized graduation for quantitative tasks. It is the perfect precondition for a precise re-setting of a defined magnification step, enabling reproducible measurements e.g. in quality control.



## Ergonomic Solutions

The SM-TR30 switchable trinocular head with 30° viewing angle gives 80% light to the camera port. Any suitable member of the Motic camera family with its Motic Images Plus 3.0 software will upgrade this stereo microscope to a powerful workstation.



## Illumination

Illumination is implemented as a tiltable LED panel for incident light and a space-saving transmitted light module. The extremely flat microscope base plate even in the transmitted light stand allows a relaxed positioning of hands for a delicate preparation work. Low heat development and a long lifetime (10.000 hours) are well known LED characteristics and appreciated especially when handling with living samples. For an external illumination, a segmentable ring light can be mounted easily. This is also necessary in case of industrial stand options.



## TECHNICAL SPECIFICATIONS

### SM7 SERIES

Model	SM-TR30	SM-BI30
Optical system	Infinity Common Main Objective (CMO, Galilean)	
Observation tube	Trinocular tube	Binocular tube
Inclination	30°	
Trinocular light split	Light path selection: 2 steps (Binocular 100%, Video 80%-Binocular 20%)	/
Interpupillary distance	Interpupillary distance adjustable range: 55 to 75mm	
Zoom drive	Horizontal knob system	
Zoom ratio values	7:1 (0.8-5.6x)	
Zoom magnification indication	10-step, 0.8,1,1.25,1.6, 2, 2.5, 3.2, 4, 5, 5.6. Click stop for each zoom magnification: On-Off switching possible	
Optional adapter	1X C-Mount, 0.5X C-Mount	/
Standard eyepieces	UC WideField 10X/22 with +/- 5 diopter adjustment	
Optional eyepieces	UC WideField 12.5X/18 with +/- 5 diopter adjustment UC WideField 15X/16 with +/- 5 diopter adjustment UC WideField 20X/12.5 with +/- 5 diopter adjustment	
Objective lens mounting	Screw mounting into thread	
Standard Objective	ACH1X, W/D 90mm	
Optional Objectives	PLAPO 1X, WD 81mm ACH 0.5X, W/D W/D 198.5mm ACH 2X, WD 33.5mm	
<b>Stands</b>		
	<b>SM-ST7</b>	<b>SM-ILST7</b>
<i>Various pole type stands available. Please contact your nearest Motic Office for more information.</i>	Standard large stand (Fixed arm)	LED reflected / transmitted illumination large stand (Fixed arm)
Head holder	Mounting diameter: 76mm	
Focus mechanism	Coarse focusing system with tension adjustment	
Focusing stroke	Knob rotation tension adjustment / Focusing stroke: 120mm	
Light source	/	Transmitted illumination: LED
	/	Reflected illumination: LED
	/	AC 100-240V, 50/60Hz, 10W
Optional accessory	LED Ring Light	
Accessories included	Dust cover, Glass plate and Black/White plate (160mm)	

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

#### Motic Instruments (Canada)

130 - 4611 Viking Way, Richmond, BC V6V 2K9 Canada  
Tel: 1-877-977 4717 | Fax: 1-604-303 9043

#### Motic Deutschland (Germany)

Christian-Kremp-Strasse 11, D-35578 Wetzlar, Germany  
Tel: 49-6441-210 010 Fax: 49-6441-210 0122

#### Motic Hong Kong (Hong Kong)

Unit 2002, L20, Tower Two, Enterprise Square Five  
38, Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong  
Tel: 852-2837 0888 | Fax: 852-2882 2792

#### Motic Europe (Spain)

C. Les Corts 12, Pol. Ind. Les Corts. 08349 Cabrera de Mar, Barcelona, Spain  
Tel: 34 93 756 62 86 | Fax: 34 93 756 62 87

\*CCIS® is a trademark of Motic Incorporation Ltd.

Motic Incorporation Limited Copyright © 2002-2019. All Rights Reserved.

Design Change: The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress, without notice and without obligation.

Designed in Barcelona (Spain)

April 2019

