

# Clemex USB 2.0 CMOS Cameras

The Clemex series of high resolution cameras has the flexibility to meet all of your imaging needs. With many different models to choose from, we are sure to have a camera to meet your budget and exceed your expectations. Integrated with our imaging software, the Clemex cameras are the perfect addition to any microscopy station.



	<b>Clemex L 1.3 MP</b> Monochrome	<b>Clemex L 3.0 MP</b> Color	<b>Clemex L 5.0 MP</b> Color
	CL-13-213	CL-13-219	CL-13-224
<b>Sensor Specification</b>			
Image Sensor	1/2" CMOS Aptina MT9M001	Micron MT9T001	Micron MT9P031
Optical Format	1/2"		1/2.5"
Imager Size	Diagonal 8,46 mm	Diagonal 8,19 mm	Diagonal 7,13 mm
Pixel Size	5.2 x 5.2 $\mu\text{m}$	3.2 $\mu\text{m}$ x 3.2 $\mu\text{m}$	2.2 x 2.2 $\mu\text{m}$
Resolution	1280 x 1024 pixels	2048 x 1536 pixels	2592 x 1944 pixels
<b>Camera Specifications</b>			
Frame Rate	30 fps (1280 x 1024), 120 fps (640 x 480)	12 fps	7 fps
Bit Depth	8 bit		8 bit
Exposure Control	Manual and automatic control		
Exposure Range	-	128 $\mu\text{s}$ - 4s	106 $\mu\text{s}$ to 3s
Gain Control	Manual control	Manual and automatic control	
Gain Range	1.0 to 15x	1 to 3.88x	
White Balance	-	Manual and automatic control	
<b>Mechanical Specifications</b>			
Data Interface	USB 2.0		
Lens Mount	Adjustable C-Mount standard		
Dimensions	97.8 x 69.8 x 50.8 mm / 3.85 x 2.75 x 2.00 inch		
Mass	300 g		
Operating Temperature	0 to 50 °C		
Storage Temperature	-30 to 70 °C		
Operating Humidity	5 to 95 %, non-condensing		
Shock / Vibration	50 G shock / 5 G (2 to 200 Hz) vibration		
<b>Camera Software</b>			
Operating Systems	Windows 7, Windows 8, Windows 10 - 64-bit operating systems		
<b>Power and Emissions</b>			
Power Consumption	~2.5 W		
Power Requirement	USB bus power, or external 6VDC - 500mA		
Warranty	One (1) year		
<b>Requirement</b>			
Software	Clemex software version 8.0		



800 Guimond, Longueuil QC J4G 1T5  
 888.651.6573 / 450.651.6576  
 info@clemex.com / www.clemex.com  
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