

# New Global Shutter CMOS cameras

Similarly priced to current Clemex USB2 cameras



## CLEMEX ST Series

### Clemex ST 2.35 MP Camera

- > 1920 X 1200 resolution
- > Monochrome or colour camera
- > 1/1.2" Sony Global Shutter CMOS chip (technology replacing CCD)
- > Very sensitive to light
- > Exposure time of 33  $\mu$  sec -81 sec
- > Maximum transmission speed is 40 fps at full resolution using USB3 Vision
- > Low noise (compared to the CMOSIS 4 Mp)
- > Hardware trigger enabled

### Clemex ST 5 MP Camera

- > 2448 x 2048 resolution
- > Colour camera
- > 2/3" Sony Global Shutter CMOS chip (technology replacing CCD)
- > Very sensitive to light
- > Exposure time of 20  $\mu$  sec -26 sec
- > Maximum transmission speed is 75 fps at full resolution using USB3 Vision
- > Low noise (compared to the CMOSIS 4 Mp)
- > Hardware trigger enabled

# Specifications

	<b>Clemex ST 2.35 MP</b> Monochrome USB 3.0 Camera	<b>Clemex ST 2.35 MP</b> Colour USB 3.0 Camera	<b>Clemex ST 5.0 MP</b> Colour USB 3.0 Camera
	CL-13-874	CL-13-875	CL-13-876
<b>Sensor Specification</b>			
Image Sensor	Sony : IMX249 Monochrome	Sony : IMX249 Colour	Sony : IMX250 Colour
Shutter Type	Global Shutter		
Optical Format	1/1.2"		2/3"
Pixel Size	5.86 x 5.86 µm		3.45 x 3.45 µm
Resolution	1920 x 1200 pixels		2448 x 2048 pixels
<b>Camera Specifications</b>			
Frame Rate	40 fps at full resolution		75 fps at full resolution
Bit Depth	8 or 12-bit		
Exposure Control	Software control		
Exposure Time	33 µ sec -81 sec		20 µ sec -26 sec
Gain Range Analog	0 to 24 dB		
Gain Range Digital	0 to 6 dB		
White Balance	Manual and automatic control		
<b>Mechanical Specifications</b>			
Data Interface	USB 3.0, Super Speed Micro B		
Lens Mount	C-Mount		
Dimensions	28 x 28 x 40 mm (excluding connectors)		
Mass	50 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	Less than 3 W		
Power Requirement	5 V (Typ) (This conforms to the USB standard)		
Warranty	One (1) year		
<b>Requirement</b>			
Software	Clemex software version 8.0		