

# sCMEX-1

## USB-2 camera with Scientific CMOS sensor DC.1300s

### HIGHLIGHTS

- Scientific grade camera
- Suitable for fluorescence
- 1.3 Mpix sCMOS color USB 2.0 camera
- 1/3" sensor, 1278 x 1038 pixels
- Ultra-low signal/noise ratio
- High sensitivity and high speed
- Excellent color rendering
- ADC 16 bits, color depth 36 bits
- USB 2.0 interface



sCMEX

### TECHNICAL SPECIFICATIONS

<b>Sensor</b>	sCMOS 1/3 inch
<b>Pixels</b>	1278 x 1038 pixels, 1.3 Mpix
<b>Scan mode</b>	Progressive, rolling shutter
<b>Pixel size</b>	3.63 $\mu\text{m}$ x 3.63 $\mu\text{m}$
<b>Filter</b>	RGB
<b>Mount</b>	C-mount
<b>Max fps</b>	Up to 25 frames per second (1278 x 1038 pixels) Up to 39 frames per second (664 x 512 pixels, 2x2 binning mode)
<b>ADC</b>	16 bits
<b>Color depth</b>	36 bits
<b>Sensitivity</b>	1.5 V/lux-sec @ 550 nm
<b>Exposure</b>	Automatic or manual, from 0.1 ms to 3 seconds
<b>White balance</b>	Automatic/manual
<b>Dynamic range</b>	72 db
<b>S/N max</b>	55 db
<b>Data interface</b>	USB 2.0 at 480 Mb/s
<b>Operation</b>	0 – 60° C, 45-85 % humidity
<b>Storage temperature</b>	-20 to 70° Celsius
<b>Supplied with</b>	0.35x objective with C-mount, USB 2.0 cable, 30 and 30.5 mm adapters for stereomicroscopes, 76 x 24 mm calibration slide (1mm/100), CD ROM with ImageFocus 4 software, carton box
<b>Software</b>	Windows XP, Vista, Windows7, Windows 8 (32 and 64 bit configurations)
<b>Product number</b>	DC.1300s

### MODELS

	Number of pixels (MP)	Sensor	Sensor size (inches)	Pixels size ( $\mu\text{m}$ )	Resolutions	Max. frames (p/sec)	Grayscale conversion	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensibility V/lux-sec	Product number
sCMEX-1	1.3	sCMOS	1/3"	3.6 x 3.6	1278 x 1038 664 x 512	25 39	16 bits	36 bits	55	72	1.5	DC.1300s
sCMEX-3	3.0	sCMOS	1/2.8"	2.5 x 2.5	2048 x 1536 1024 x 768 684 x 512	11 27 38	16 bits	36 bits	55	69	1.5	DC.3000s

The sCMEX cameras are supplied in a carton box with USB-2 cable, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1mm/100 (10 $\mu\text{m}$ /division) calibration slide and a 0.35x C-mount objective