

# CMEX-3

## USB-2 camera with CMOS sensor

### DC.3000c

#### HIGHLIGHTS

- Entry level camera for amateur, education and laboratories
- 3.0 Mpix CMOS color USB 2.0 camera
- 1/2" sensor, 2048 x 1538 pixels
- ADC 10 bits, color depth 24 bits
- Low signal/noise ratio
- USB 2.0 interface



#### TECHNICAL SPECIFICATIONS

<b>Sensor</b>	CMOS 1/2 inch
<b>Pixels</b>	2048 x 1536 pixels, 3.0 Mpix
<b>Scan mode</b>	Progressive, rolling shutter
<b>Pixel size</b>	3.2 µm x 3.2 µm
<b>Filter</b>	RGB
<b>Mount</b>	C-mount
<b>Max fps</b>	Up to 10 frames per second (2048 x 1536 pixels) Up to 25 frames per second (1024 x 768 pixels) Up to 40 frames per second (640 x 480 pixels)
<b>ADC</b>	10 bits
<b>Color depth</b>	24 bits
<b>Sensitivity</b>	1.3 V/lux-sec @ 550 nm
<b>Exposure</b>	Automatic or manual, from 1 ms to 500 ms
<b>White balance</b>	Automatic/manual
<b>Dynamic range</b>	72 db
<b>S/N max</b>	44 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>	0.5x 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.3000c

	Number of pixels (MP)	Sensor	Sensor size (inches)	Pixels size (µm)	Resolutions	Max. frames (p/sec)	Grayscale conversion	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensitivity V/lux-sec (at 550 nm)	Product number
CMEX- 1	1.3	CMOS	1/2.5"	2.2x2.2	1272x952 632x472	16 46	10 bits	24 bits	50	60	1.0	DC.1300c
CMEX- 3	3.2	CMOS	1/2"	3.2x3.2	2048 x 1536 1024 x 768 640 x 480	10 25 40	10 bits	24 bits	44	72	1.3	DC.3000c
CMEX- 5	5.0	CMOS	1/2.5"	2.2x2.2	2592x1944 1280x960 1024x768 640x480	5 21 25 38	10 bits	24 bits	42	65	1.3	DC.5000c

The CMEX 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 (10µm/division) calibration slide and a 0.45x C-mount objective, except the CMEX-1 (DC.1300c) that is supplied with a 0.35x C-mount objective