

CMEX-1

USB-2 camera with CMOS sensor

DC.1300c

HIGHLIGHTS

- Entry level camera for amateur, education and laboratories
- 1.3 Mpix CMOS color USB 2.0 camera
- 1/2.5" sensor, 1272 x 952 pixels
- ADC 10 bits, color depth 24 bits
- Low signal/noise ratio
- USB 2.0 interface



TECHNICAL SPECIFICATIONS

Sensor	CMOS 1/2.5 inch
Pixels	1272 x 952 pixels, 1.3 Mpix
Scan mode	Progressive, rolling shutter
Pixel size	2.2 µm x 2.2 µm
Filter	RGB
Mount	C-mount
Max fps	Up to 16 frames per second (1272 x 952 pixels) Up to 46 frames per second (632 x 472 pixels)
ADC	10 bits
Color depth	24 bits
Sensitivity	1.0 V/lux-sec @ 550 nm
Exposure	Automatic or manual, from 1 ms to 300 ms
White balance	Automatic/manual
Dynamic range	60 db
S/N max	50 db
Data interface	USB 2.0 at 480 Mb/s
Operation	0 – 60° C, 45-85 % humidity
Storage temperature	-20 to 70° Celsius
Supplied with	0.45x 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
Software	Windows XP, Vista, Windows7, 8 and 10 (32 and 64 bit configurations)
Product number	DC.1300c

	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)	Sensibility 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