

# Euromex 5 Mpix camera

## CCD cooled color

### DC.5000i

#### HIGHLIGHTS

- Cooled camera for education, laboratories and industry
- Designed for fluorescence
- 5 Mpix CCD color USB 2.0 camera
- 2/3" sensor, 2580 x 1944 pixels
- ADC 16 bits, color depth 36 bits
- For fluorescence applications and low light intensity circumstances
- Cooled by Peltier element up to - 30° C below ambient temperature



DC.5000i

#### TECHNICAL SPECIFICATIONS

<b>Sensor</b>	High Resolution CCD 2/3 inch
<b>Pixels</b>	2580 x 1944 pixels, 5.0 Mpix
<b>Scan mode</b>	Progressive, rolling shutter
<b>Pixel size</b>	3.4 µm x 3.4 µm
<b>Filter</b>	RGB
<b>Mount</b>	C-mount thread. Delivered without objective
<b>Max fps</b>	3 frames per second (2580 x 1944 pixels) 12 frames per second (1280 x 932 pixels)
<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 20 min
<b>White balance</b>	Automatic/manual
<b>Dynamic range</b>	74 db
<b>Sensibility</b>	500 mV @ 3200 K and 706 cd/m <sup>2</sup> , 1/30 sec accumulation
<b>Interface</b>	USB-2 at 480 Mb/s
<b>Peltier cooling</b>	-30° C below ambient temperature
<b>Dimensions</b>	130 x 111 x 54 mm (hxbxt)
<b>Weight</b>	920 gram
<b>Operation</b>	0 – 60° C, 10-85 % humidity
<b>Supplied with</b>	USB 2.0 cable, 100-240 Vac to 5Vdc/4A power adapter for Peltier cooling, 76 x 24 mm calibration slide (1 mm/100), CD ROM with software, aluminum carry case. Supplied without objective or adapter
<b>Product number</b>	DC.5000i

MODEL	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	Product number
CCD cooled	5.0	CCD	2/3"	3.4 x 3.4	2580 x 1944 1280 x 932	3 12	16 bits	36 bits	55	74	0.5	DC.5000i

The Euromex CCD cooled camera (DC.5000i) is supplied in an aluminium box and 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 external 5 Vdc/4 A power supply

The Euromex CCD cooled camera (DC.5000i) is equipped with a female C-mount thread and can be directly mounted on microscopes with a C-mount adapter. For microscopes with a standard 23.2 mm tube, the 0.67x objective for 2/3" cameras is needed (reference DC.1328 sold seperately)