

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

| | |
|------------------------|---|
| Sensor | High Resolution CCD 2/3 inch |
| Pixels | 2580 x 1944 pixels, 5.0 Mpix |
| Scan mode | Progressive, rolling shutter |
| Pixel size | 3.4 µm x 3.4 µm |
| Filter | RGB |
| Mount | C-mount thread. Delivered without objective |
| Max fps | 3 frames per second (2580 x 1944 pixels) 12 frames per second (1280 x 932 pixels) |
| ADC | 16 bits |
| Color depth | 36 bits |
| Sensitivity | 1.5 V/lux-sec @ 550 nm |
| Exposure | Automatic or manual from 0.1 ms to 20 min |
| White balance | Automatic/manual |
| Dynamic range | 74 db |
| Sensibility | 500 mV @ 3200 K and 706 cd/m ² , 1/30 sec accumulation |
| Interface | USB-2 at 480 Mb/s |
| Peltier cooling | -30° C below ambient temperature |
| Dimensions | 130 x 111 x 54 mm (hxbxt) |
| Weight | 920 gram |
| Operation | 0 – 60° C, 10-85 % humidity |
| Supplied with | USB 2.0 cable, 100-240 Vac to 5Vdc/4A power adapter for Peltier cooling, 76 x 24 mm calibration slide (1mm/100), CD ROM with software, aluminum carry case. Supplied without objective or adapter |
| Product number | DC.5000i |

MODELS

| | 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 | 3 | 16 bits | 36 bits | 55 | 74 | 0.5 | DC.5000i |
| | | | | | 1280 x 932 | 12 | | | | | | |

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)