

# Euromex Cooled Cameras

## DC.6000i and DC.20000i



### HIGHLIGHTS

- Peltier cooled cameras for universities, laboratories and industry
- For fluorescence applications
- 6 or 20 Mpix color cameras
- Large 1 inch camera sensor
- USB-3 interface
- Advanced imaging software



● DC.20000i/DC.6000i

### TECHNICAL SPECIFICATIONS

#### DC.6000i

|                               |   |
|-------------------------------|---|
| <b>Sensor</b>                 | 1 inch Peltier cooled CCD sensor  |
| <b>Pixels</b>                 | 2748 x 2200 pixels, 6 Mpix  |
| <b>Scan mode</b>              | Progressive, rolling shutter  |
| <b>Pixel size</b>             | 4.54 μm x 4.54 μm   |
| <b>Filter</b>                 | RGB   |
| <b>Mount</b>                  | C-mount   |
| <b>Max fps</b>                | Up to 7.5 frames per second (2748 x 2200 pixels)<br>Up to 14 frames per second (2748 x 1092 pixels)   |
| <b>Exposure</b>               | Automatic or manual, exposure time 0.06 ms ~ 3600 s   |
| <b>White balance</b>          | Automatic/manual  |
| <b>Sensitivity</b>            | 880 mV @ 1/30 s   |
| <b>Data interface</b>         | USB 3.0 high speed (USB-2 compatible)   |
| <b>Peltier cooling system</b> | Two-stage active-cooling system -45 °C below camera body temperature  |
| <b>Operation</b>              | -10~50°C, 30-80 % humidity  |
| <b>Storage temperature</b>    | -20~60°C  |
| <b>Power supply</b>           | 5V over PC USB port. External power adapter for cooling system, DC 12 V, 3 A  |
| <b>Supplied with</b>          | USB-3 cable, 1x C-mount objective (DC.1359), 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1 mm/100 (10 μm/division) calibration slide, ImageFocus Alpha software (A Mac OS version is also supplied, with a few differences in features), external 100-240 Vac power supply and carrying case |

#### DC.20000i

|                               |   |
|-------------------------------|---|
| <b>Sensor</b>                 | 1 inch Peltier cooled CMOS sensor   |
| <b>Pixels</b>                 | 5440 x 3648 pixels, 20 Mpix   |
| <b>Scan mode</b>              | Progressive, rolling shutter  |
| <b>Pixel size</b>             | 2.4 μm x 2.4 μm   |
| <b>Filter</b>                 | RGB   |
| <b>Mount</b>                  | C-mount   |
| <b>Max fps</b>                | Up to 5 frames per second (5440 x 3648 pixels)<br>Up to 10 frames per second (4096 x 2160 pixels)<br>Up to 15 frames per second (2736 x 1824 pixels)<br>Up to 30 frames per second (1824 x 1216 pixels)   |
| <b>Exposure</b>               | Automatic or manual, exposure time 0.1 ms ~ 3600 s  |
| <b>White balance</b>          | Automatic/manual  |
| <b>Sensitivity</b>            | 462 mV @ 1/30 s   |
| <b>Data interface</b>         | USB 3.0 high speed (USB-2 compatible)   |
| <b>Peltier cooling system</b> | Two-stage active-cooling system -45 °C below camera body temperature  |
| <b>Operation</b>              | -10~50°C, 30-80 % humidity  |
| <b>Storage temperature</b>    | -20~60°C  |
| <b>Power supply</b>           | 5V over PC USB port. External power adapter for cooling system, DC 12 V, 3 A  |
| <b>Supplied with</b>          | USB-3 cable, 1x C-mount objective (DC.1359), 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1 mm/100 (10 μm/division) calibration slide, ImageFocus Alpha software (A Mac OS version is also supplied, with a few differences in features), external 100-240 Vac power supply and carrying case |

| MODELS    | Number of pixels (MP) | Sensor  | Pixels size (μm) | Resolutions  | Max. frames (p/sec) | USB-3 | Sensitivity @ 1/30 sec | Peltier cooling |
|-----------|-----------------------|---------|------------------|--|---------------------|-------|------------------------|-----------------|
| DC.6000i  | 6                     | 1" CCD  | 4.54 x 4.54      | 2748 x 2200<br>2748 x 1092                               | 7,5<br>14           | •     | 880 mV                 | •               |
| DC.20000i | 20                    | 1" CMOS | 2.4 x 2.4        | 5440 x 3648<br>4096 x 2160<br>2736 x 1824<br>1824 x 1216 | 5<br>10<br>15<br>30 | •     | 462 mV                 | •               |