

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

| | |
|-------------------------------|---|
| Sensor | 1 inch Peltier cooled CCD sensor |
| Pixels | 2748 x 2200 pixels, 6 Mpix |
| Scan mode | Progressive, rolling shutter |
| Pixel size | 4.54 μm x 4.54 μm |
| Filter | RGB |
| Mount | C-mount |
| Max fps | Up to 7.5 frames per second (2748 x 2200 pixels) Up to 14 frames per second (2748 x 1092 pixels) |
| Exposure | Automatic or manual, exposure time 0.06 ms ~ 3600 s |
| White balance | Automatic/manual |
| Sensitivity | 880 mV @ 1/30 s |
| Data interface | USB 3.0 high speed (USB-2 compatible) |
| Peltier cooling system | Two-stage active-cooling system -45 °C below camera body temperature |
| Operation | -10~50°C, 30-80 % humidity |
| Storage temperature | -20~60°C |
| Power supply | 5V over PC USB port. External power adapter for cooling system, DC 12 V, 3 A |
| Supplied with | 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

| | |
|-------------------------------|---|
| Sensor | 1 inch Peltier cooled CMOS sensor |
| Pixels | 5440 x 3648 pixels, 20 Mpix |
| Scan mode | Progressive, rolling shutter |
| Pixel size | 2.4 μm x 2.4 μm |
| Filter | RGB |
| Mount | C-mount |
| Max fps | Up to 5 frames per second (5440 x 3648 pixels) Up to 10 frames per second (4096 x 2160 pixels) Up to 15 frames per second (2736 x 1824 pixels) Up to 30 frames per second (1824 x 1216 pixels) |
| Exposure | Automatic or manual, exposure time 0.1 ms ~ 3600 s |
| White balance | Automatic/manual |
| Sensitivity | 462 mV @ 1/30 s |
| Data interface | USB 3.0 high speed (USB-2 compatible) |
| Peltier cooling system | Two-stage active-cooling system -45 °C below camera body temperature |
| Operation | -10~50°C, 30-80 % humidity |
| Storage temperature | -20~60°C |
| Power supply | 5V over PC USB port. External power adapter for cooling system, DC 12 V, 3 A |
| Supplied with | 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

| Model | Number of pixels (MP) | Sensor | Pixel size (μm) | Resolutions | Max. frames (p/sec) | USB-3 | Dynamic range (db) | S/N Ratio (db) | Sensitivity @ 1/30 sec | Peltier cooling |
|-----------|-----------------------|---------|-----------------|-------------|---------------------|-------|--------------------|----------------|------------------------|-----------------|
| DC.6000i | 6 | 1" CCD | 4.54 x 4.54 | 2748 x 2200 | 7,5 | • | 62.34 | 41.6 | 880 mV | • |
| | | | | 2748 x 1092 | 14 | | | | | |
| DC.20000i | 20 | 1" CMOS | 2.4 x 2.4 | 5440 x 3648 | 5 | • | 66.3 | 41.74 | 462 mV | • |
| | | | | 4096 x 2160 | 10 | | | | | |
| | | | | 2736 x 1824 | 15 | | | | | |
| | | | | 1824 x 1216 | 30 | | | | | |