

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	Number of pixels (MP)	Sensor	Pixels size (μm)	Resolutions	Max. frames (p/sec)*	USB-3 Product number	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	DC.20000i	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					

* Frame rates have been determined at optimal conditions

