EUREKAM PRO 20C

Eurekam PRO 20C adopts a two-stage Peltier cooling system to reach -42°C below ambient temperature. This increases greatly the S/N ratio and decreases image noise. Thanks to this and to the SONY Exmor CMOS Sensor, this camera can be widely used in low light applications like fluorescence image capture and analysis.

Highlights

- Resolution 20 MP
- Two-stage TE-cooling
- Up to 1 hour exposure time
- Great color reproduction
- SONY Exmor sensor

Package includes

- Camera
- Eyepiece adapter
- 30 and 30.5 mm ring adapters
- Micrometric slide
- Power supply
- USB cable
- CD-ROM with software
- Documentation
- Robust plastic carrying case

Software included

- WaveImage

Optional Accessories

- C-mount adapter compatible with other brand microscopes
- Photographic tube for Reflex cameras
- T-adapter for Reflex cameras (Nikon, Canon)
- See complete list of adapters available at the end of catalogue

	Eurekam PRO 20C
Resolution	20 Megapixel (13.056 x 8.755)
Sensor Type	CMOS Sony Exmor IMX183
Sensor Size	1″
Max frames per second Binning	5fps @5440x3648 Binning 1x1 15fps @2736x1824 Binning 2x2 30fps @1824x1216 Binning 3x3
Pixel Size	2.4µm x 2.4µm
Color depht	8/12bit switchable
Max. Signal to Noise Ratio	41.74 dB
Dynamic Range	66,3 dB
Dark signal	0.21mV at 1/30sec
Sensitivity	462mV with 1/30s§
Data inferface	USB 3.0 (5Gbit/sec.)
Exposure Time	0.1 msec. – 3600 sec.
Exposure control	Automatic / Manual
White Balance	Automatic / Manual
Spectral range	380-650nm (with IR-cut Filter)
Cooling system	Internal two-stage TE-cooling System -45 °C
Consumption	1.155 W (standby mode. 5V 231mA); 6.72W (Fan & TEC both on. 12V 560mA).
Operating Temperature	-10 °C ~ 50 °C
Operating humidity	30 ~ 80% RH non cond.
Power supply	DC 5V over PC USB Port External Power Adapter for Cooling System: DC 12V/3A
Capture / Control API	Native C/C++, C#/VB.NET,DirectShow, Twain and Labview
Dimensions / Weight	103mm x Ø80mm / 2,6 Kg
Lens Mount	Standard C-mount
Video interface	Support Twain, DirectShow, Labview, SDKPackage (Native C++, C#)
Operating system	Compatible with Microsoft® Windows® XP / Vista /7 / 8 /10 (32 & 64 bit), Mac OSX, Linux
Minimum Computer Requirements	Intel Core 2 2.8GHz or Higher, RAM 2GB or more, USB2.0 or USB3.0, Monitor 17"or Larger, CD-ROM reader