

PUDA[®] 140万热电制冷科研级高灵敏度显微镜相机

SCIENTIFIC GRADE CAMERA WITH TE-COOLING SYSTEM

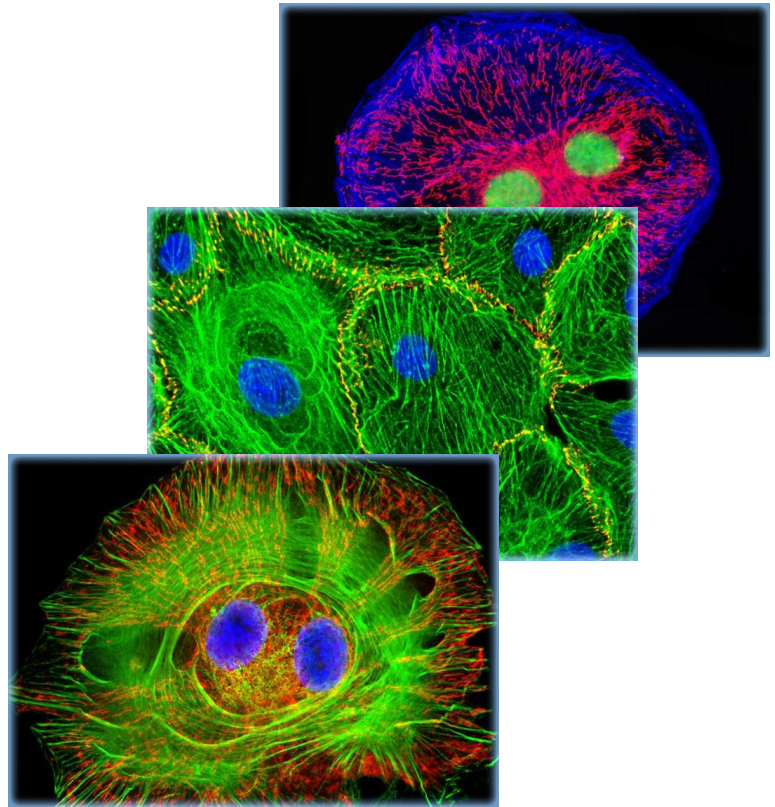
配备热电制冷技术的科学级荧光拍摄相机
采用日本索尼高性能传感器芯片及数字处理电路

USB2.0 | High-Resolution | Perfect Color

USB2.0 高速通讯，高分辨率、完美的色彩还原处理

ULTRA-FINE COLOR ENGINE

Ultra-Fine[™] 专利色彩渲染技术



Basic Characteristic

- *Scientific research grade camera with SONY CCD sensor;
- *Well-designed high-performance semiconductor cooling structure and up to 20 degrees temperature drop;
- *Higher S/N ratio;
- *USB2.0 interface ensuring high speed data transmission;
- *Supporting up to 4 minutes' long time exposure;
- *Ultra-fine Color Engine with perfect color reproduction capability;

HARDWARE CONFIGURATION 硬件配置参数:

Image Pickup Device 图像传感器	SONY ICX285AQ CCD (彩色)
Scan Mode 扫描模式	Progressive 逐行扫描
Max. Resolution 最高分辨率	1360X1024 (Approx. 1400,000 Pixels)
Sensor Size (Diagonal) 传感器尺寸	2/3 " (Diagonal 11mm)
Pixel Size 像元尺寸	6.45μm x 6.45μm
Imaging Area 传感器有效影像区域	10.2mm(H) x 8.3mm(V)
G Sensitivity 灵敏度	1240mV with 1/30s Accumulation
Dynamic Range 动态范围	70dB
A/D Converter 模数转换	12-bit Parallel, 8-bit R.G.B to PC
SN Ratio 信噪比	75dB
Spectral Range 光谱响应	380-650nm (with IR-filter)
Video Format & Frame Rate 视频模式	15fps @1360 x 1024(Multiple Speed Level)
Binning 像素叠加	1 x 1
Long Exposure 超长曝光能力	0.12ms~240s, ROI Auto & Manual
White balance 白平衡	ROI White Balance/ Manual Temp-Tint Adjustment
Color Rendering Technique 色彩渲染技术	Ultra Fine™ Color Engine
Peak Quantum Efficiency 峰值量子效率	65%
Readout Noise 读出噪音	4.5 e (r.m.s) @ gain high /5.6 e (r.m.s) @ gain low
Extinction Ratio 消光比	1 : 2000 @1ms exposure time
Smear	< 0.002%
Linearity 线性度	Better than 99%
Capture/Control API 软件接口	DirectShow , Twain
Recording System 记录模式	Still Picture and Movie
Cooling System* 制冷系统	TE-Cooled CCD - 20 ° C below ambient temperature

OPERATING ENVIRONMENT 操作及存储环境要求:

Operating Temperature 工作温度	-10°C ~ 50°C
Storage Temperature 储存温度	-20°C ~ 60°C
Operating Humidity 工作湿度	30~80%RH
Storage Humidity 储存湿度	10~60%RH
Power Supply 供电	DC 5V over PC USB port

SOFTWARE ENVIRONMENT 软件运行环境要求:

Operating System 操作系统	Microsoft® Windows® XP / Vista / 7 (32 & 64 bit)
PC Requirements 电脑配置	CPU: Equal to Intel Core2 2.8GHz or higher
	Memory:2GB or more
	USB port:USB2.0 High-speed Port
	Display:17" or larger
	CD-ROM