

# PUDA<sup>®</sup> 500万科研级显微镜相机

## SONY CCD SENSOR & DSP CHIP

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<sup>™</sup> 专利色彩渲染技术

## HARDWARE CONFIGURATION 硬件配置参数:

Image Pickup Device 图像传感器	SONY ICX282AQ CCD (彩色)
Scan Mode 扫描模式	Interlaced 隔行扫描
Max. Resolution 最高分辨率	2560 x 1920 (Approx. 4900,000 Pixels)
Sensor Size (Diagonal) 传感器尺寸	2/3" (Diagonal 11mm)
Pixel Size 像元尺寸	3.4μm x 3.4μm
Imaging Area 传感器有效影像区域	9.74mm(H) x 7.96mm(V)
G Sensitivity 灵敏度	260mV 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	62dB
Spectral Range 光谱响应	380-650nm (with IR-filter)
Video Format & Frame Rate 视频模式	4fps @2560 x 1920, 9fps @1280 x 960 (Multiple Speed Level)
Binning 像素叠加	1 x 1, 2 x 2
Exposure 曝光能力	0.203ms~104.899ms, ROI Auto & Manual
White balance 白平衡	One Push ROI White Balance/ Manual Temp-Tint Adjustment
Color Rendering Technique 色彩渲染技术	Ultra Fine <sup>™</sup> Color Engine
Peak Quantum Efficiency 峰值量子效率	35%
Readout Noise 读出噪音	N/A
Extinction Ratio 消光比	N/A
Streak	N/A
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	Nature, Optional: PELTIER (Semiconductor Cooling Module)

## OPERATING ENVIRONMENT 操作及存储环境要求:

Operating Temperature 工作温度	-10 ~ 50
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Storage Temperature 储存温度	-20 ~ 60
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 FC 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