



TEO Systems Inc. U S A

**Athena** — for life  
以 智 慧 关 爱 生 活

PROFESSIONAL USB INDUSTRIAL & MEDICAL  
COLOUR CMOS CAMERAS  
专业级USB彩色工业及医用CMOS摄像机

**TM-CC8300**

*3-Megapixel*

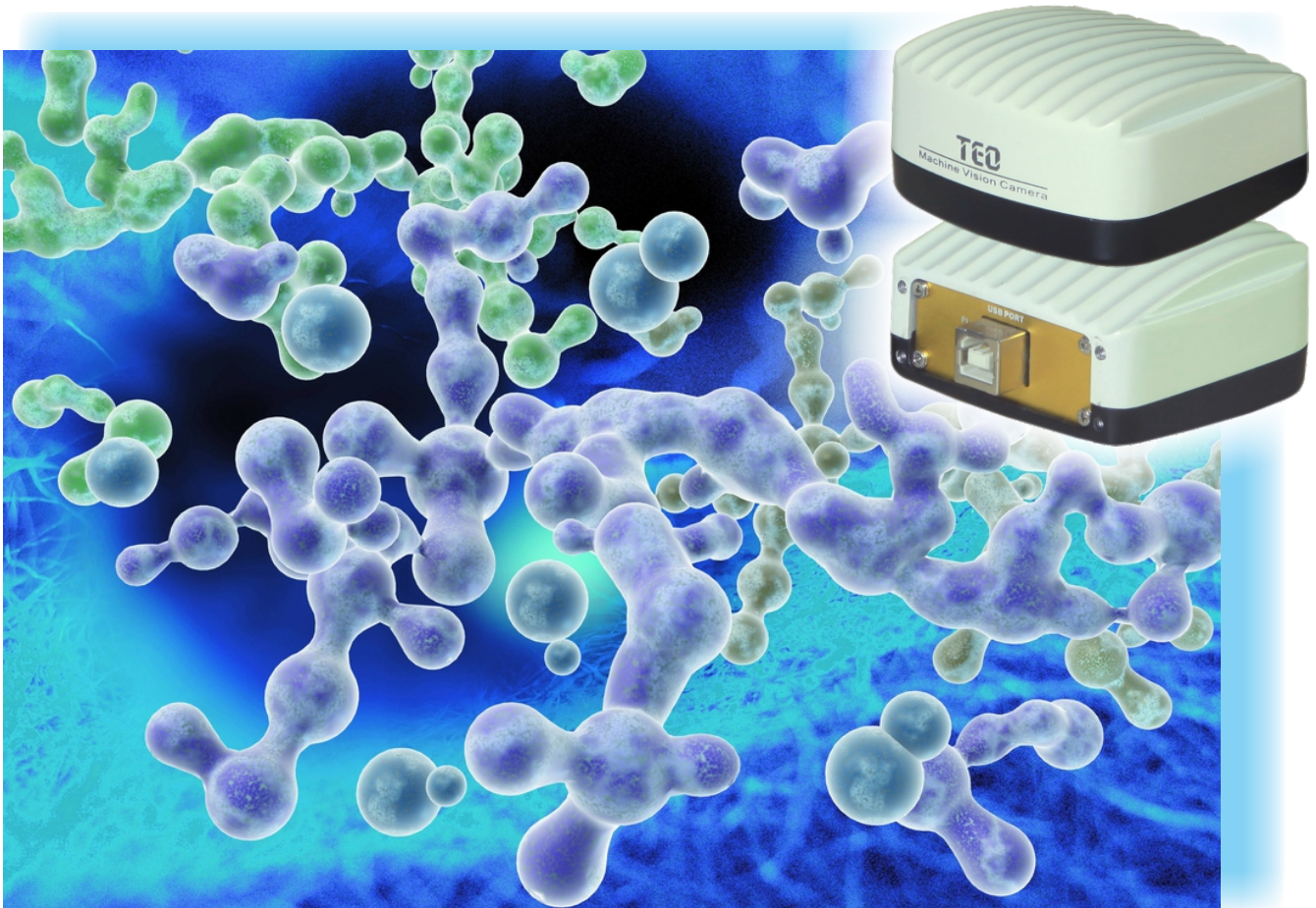
**TM-CC8500**

*5-Megapixel*

Hi sensitivity, primary color filter, crisp image high stable, suitable for Biomedical microscopic and Image measurement & Jewelry appraisal image acquisition

高灵敏度, 优化彩色滤波, 高稳定性,  
尤为适合生物医学显微和影像测量, 珠宝鉴定等图像采集的场合

*DigitalClarity™* / 清晰画质处理技术



- 1/2" or 1/2.5" Progressive scan *Wfine CMOS™*
- 2048(H)X1536(V) square pixels
- R,G,B primary color filter on chip
- Unique *TEO Bio-ele Image Process™* technology
- High speed shutter, 15fps
- Excellent anti-blooming feature

- 高清晰, 高信噪比, 医用级传感器
- 3百万或5百万方型像素点阵, 图像更细腻
- 三基色片上彩色透镜, 色彩更真实
- TEO 图像处理专利技术, 画质更超群
- 15f/s的高速抓拍, 画面更稳定
- 杰出的防过曝光性能, 画面更均匀

# Hi-res, high sensitivity, with excellent colour reproduction Wide dynamic compensation in low light conditions.

高清晰, 高灵敏, 色彩真实, 宽动态暗区补偿

**TEO series of cameras take the Machine Vision cameras to a new level. Both deliver crisp colour images with high speed & high resolution, and apply the latest technical advances To ensure super image quality even used in awful environment and industrial site..**

## Application

医用手术室摄像, 远程医疗诊断和教学, 生物病理显微, 工具显微, 金相显微, 二次元影像测量, 缺陷检测, 中心定位等自动化检测与图像分析应用。

## High sensitivity, medical, new generation of CCD sensor

采用医用级高灵敏度, 低噪声最新一代 *Wfine CMOS™*, 像素元分离式光学微透镜使得入射光线更集中照射在像元上。确保图像光电变换最前端就输出高品质的源信号, 为后续信号数字化处理提供优质保证。

## More clear, vivid, crisp image with TEO unique patents

“TEO 医学图像处理” *TEO Bio-ole image processing™* 技术引入图像采集摄像机, 采用TEO专有的亮/色矩阵函数库, 保证显示的图像色彩更真实, 与实际景物的色彩最接近, 图像的画质如丝绸般细腻。

独有的“TEO电子泛焦” *TEO Ele-ext Fx™* 技术引入图像采集摄像机轮廓清晰, 图象细腻, 色感逼真, 同时前后景物同样清晰, 使得图像不仅细节细腻, 画面更通透。

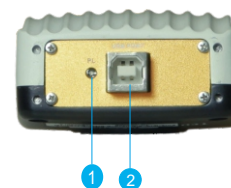
## Abundant image information of object edge for measuring

采用12bit 量化抽样处理, 像素深度和色彩细分更为精细, 对于视场内物件(或细胞)边缘的图像信息更为丰富精准, 非常易于后续图像分析测量软件的抓拍及几何测量。

## wide adaptability of power supply, Hi-isolation ports

采用非民用的工业产品设计理念, USB端口直流供电, 无需外置电源, 所有输入输出端口均采用可靠的光电隔离技术, 确保相机能阻滞外界和系统其他设备的电气干扰。

## Controls, Connectors and Indicators



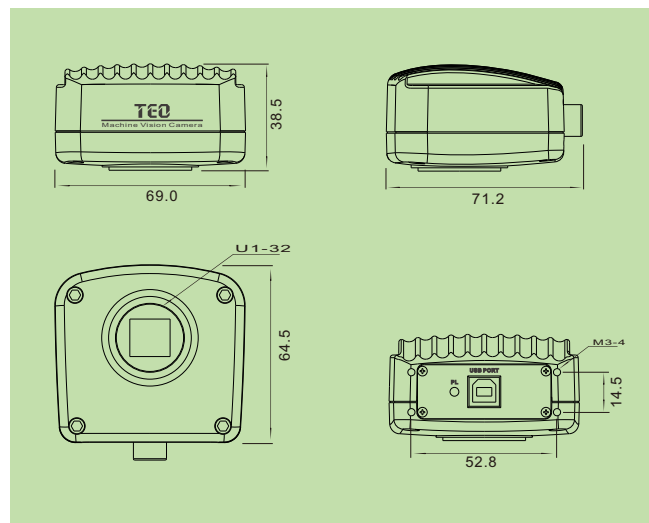
- 1 PowerLight 电源指示灯
- 2 USB port USB 2.0 接口
- 3 Lens mount hole 镜头安装孔

## Specifications 技术指标

Model 型号	TM-CC8300	TM-CC8500
Sensor 图像传感器	Diagonal 8.19mm, 1/2-inch CMOS 6.55mm x 4.92mm	Diagonal 8.0mm, 1/2.5-inch CMOS 5.70mm x 4.28mm
Effective pixels 有效像素	2048(H) x 1536(V)	2592(H) x 1944(V)
Pixel size 像素尺寸 (um)	3.2(H) x 3.2(V)	2.2(H) x 2.2(V)
Color filter array 彩色色滤镜阵列	RGB Bayer	
Frame rate 帧率	5 frames per-second at full resolution	
Scanning mode 扫描方式	Progressive	
Shutter 电子快门	Electronic rolling shutter(ERS), global reset release(GRR)	
Dynamic range 动态范围	>61dB	>70dB
S/N ratio 信噪比	45dB (Maximum)	43dB (Maximum)
Signal process 信号处理	10bit on - chip	12bit on - chip
Sensitivity 灵敏度	Digital Clarity™	
Exposure time 曝光时间	1.0V/lux-sec @550nm	0.53V/lux-sec @550nm
Image output 图像输出	10us~30s	USB 2.0
Functions setting 功能设置	Resolution, AGC, RGB gain, Contrast, Gamma, white balance, blemish reducing, light equipoise	
Software support 软件支持	Measurement software, SDK, OCX, control-file: support DSHW, labview, TWAIN port	
Operation software 操作平台	VISTA, WIN7, WIN XP; WIN2000	
Lens mount 镜头安装方式	C mount	
Power Consumption 功耗	Approx 2.5W USB2.0 supply: +5.0VDC+10% (recommended)	
Operating temperature 工作温度	-10°C to +50°C; 0°C to +40°C (recommended 推荐)	
Dimension 尺寸	69.0(L) x 71.2(W) x 38.5 (H) mm	
Weight 重量	approx 185g	

## Dimensions 尺寸

Unit:mm 毫米



Design and specifications subject to change without notice.  
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