



TEO Systems Inc. U.S.A

MINI USB INDUSTRIAL GRADE MONOCHROME CMOS CAMERAS

微型USB工业级黑白CMOS摄像机

TM-B6040U

CMOS USB2.0

High definition, hi sensitivity, high stable,
suitable for industry&enviroment sites
高稳定性, 高灵敏度, 高清晰
尤为适合工业, 交通, 环境等图像捕捉和监控应用

Athena — for life
以 智 慧 关 爱 生 活

DigitalClarity™ / 清澈画质处理技术



- 1/3" industrial-grade HS Wfine CMOS™
- 752(H)X480(V) pixels, more clear
- Unique TEO Bio-ele Image Process™ technology
- Stereo image reproduction, more vivid
- Excellent realtime wide dynamic
- High speed shutter, 60fps

- 低照度, 高清晰, 工业级传感器
- 36万像素点阵, 高清晰, 图像细腻
- TEO 图像处理专利技术, 画质超群
- 景物立体感强, 图像更生动
- 杰出的实时宽动态补偿技术
- 60f/s的高速抓拍, 画面更稳定

Super hi-res, high sensitivity, long life, shockproof, response out-triggers.

高清晰, 高灵敏, 长寿命, 抗冲击, 响应外触发抓拍

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..

- Super hi-res, vivid image with unique TEO Bio-tele Image Process™

独有的 TEO Bio-tele Image Process™ 技术引入机器视觉相机, 使得细节轮廓更清晰, 图象更细腻, 色感更逼真, 大大降低热噪声, 在抓拍高速运动景物时, 仍可清楚再现真实景物, 为图像应用提供最真实画质。

- 8.923mm square size pixel, image quality is more pure

正方形像素阵列, 确保感光面充分曝光, 像元深度更充分。使得每一像素的信息量更大, 为后续的图像分析提供了信息量更为丰富的信息量。

- Continuous variable speed shutter function, max 15fps

连续可变曝光速度, 使得在不同照度条件下均能捕捉并再现完美的画面, 实现最大每秒60帧图像的传送能力。

- Supports progressive scan and many readout modes

该相机支持多种图像信号读出方式, 逐行扫描、2/8行、2/4行读出、2行叠加读出。确保读出速率与清晰度的平衡。实现多功应用。

- 4chs input, 4chs output, trigger delivery response capture

支持同步/异步触发, 可变延时外触发抓拍, 调节外触发响应时间确保抓拍传感器相应延迟获得最佳位置和视场的图像。支持4路触发采集输入, 4路触发输出 (例如闪光同步)

- Support frame exposure mode, variable transmission speed

支持帧曝光功能, 非常适于高速运动景物的图像抓拍。传输速率可以依据线路或后续系统响应能力不同, 调节传输速率, 全幅可达60fps。

- wide adaptability of power supply, Hi-isolation ports

采用非民用的工业产品设计理念, 电源适应性宽, 在9~18VDC供电环境均能可靠工作, 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



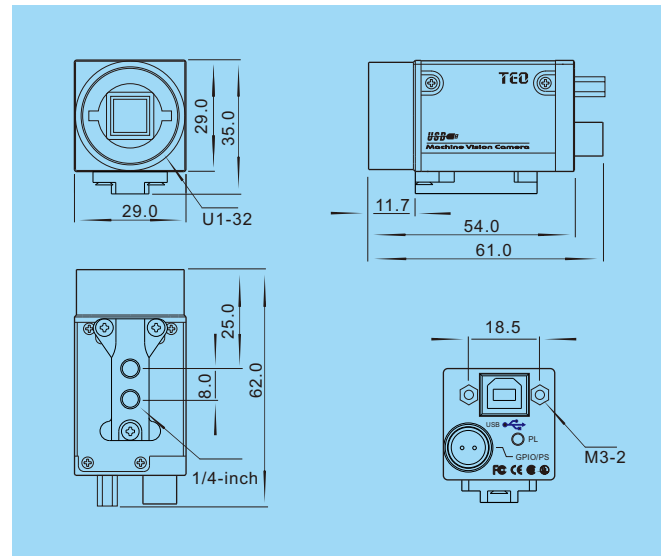
- 1 Lens mount hole 镜头安装孔
- 2 Mounting bottom 安装底托
- 3 Mount screw hole 安装螺孔
- 4 Locking screw hole 锁定螺孔
- 5 GPIO port GPIO 端口
- 6 USB port USB2.0接口
- 7 Power Indicator 电源指示灯

Specifications 技术指标

| | |
|----------------------------------|--|
| Model 型号 | TM-B6040U |
| Sensor 图像传感器 | Diagonal 5.35mm, 1/3-inch MiCMOS 4.51mm(H) x 2.88mm(V) |
| Effective pixels 有效像素 | 752(H) x 480(V) |
| Pixel size 像素尺寸 | 6.0 μm(H) x 6.0 μm(V) |
| Frame rate 帧率 | 50fps; max:60fps at full resolution |
| Exposal mode 曝光方式 | Progressive |
| Signal process 信号处理 | 12-bit TEO-MIP™ process |
| Image data output 图像数据输出 | 8, 12, 16, and 24-bit digital data |
| S/N ratio 信噪比 | 50dB |
| Dynamic range 动态范围 | > 72.0dB |
| Sensitivity 灵敏度 | 4.1 V/lux-sec (550nm) |
| Gain control 增益控制 | Automatic/manual/one-push modes, programmable via software -2.6dB to 24dB in 0.04dB increments |
| Shutter speed 快门速度 | Automatic/manual/one-push modes, programmable via software 0.03ms to 32s |
| Image output 图像输出 | USB 2.0 out, 480Mb/s |
| Programmable control 可编程控制 | Image size, contrast, brightness, gain, exposure time |
| Software function 软件功能 | Image display, image processing, video |
| General purpose I/O ports I/O 端口 | 4-pin GPIO connector for power, trigger, strobe, PWM, and serial I/O 1 opto-isolated input, 1 opto-isolated output, 2 bi-directional I/O pins |
| Software support 软件支持 | Measurement software, SDK, OCX, control-file; support DSHOW, Iabview, TWAIN port |
| Operation software 操作平台 | VISTA, WIN7, WIN XP; WIN2000 Full support for 32-bit, 64-bit operating system |
| Lens mount 镜头安装方式 | C mount |
| Power consumption 电源功耗 | Approx 2.3W ; USB2.0 supply +5.0VDC±10% |
| Operating temperature 工作温度 | -10°C to +50°C; 0°C to +40°C (recommended 推荐) |
| Dimension 尺寸 | 29.0(L) x 29.0(W) x 60.0 (H) mm |
| Weight 重量 | approx 85g |

Dimensions 尺寸

Unit:mm 毫米



Design and specifications subject to change without notice.
产品设计和技术指标如有变动恕不另行通知。



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