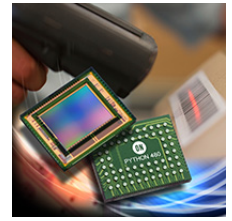


产品概览

PYTHON480: CMOS 图像传感器，全局快门，0.48 MP，SVGA

欲看完整文档，请参阅数据表。



PYTHON 480 是一款 1/3.6" VGA CMOS 图像传感器，像素阵列列为 800 X 600。高灵敏度的 4.8 μm x 4.8 μm 像素支持低噪点“管线”和“触发”全局快门读取模式。另外，全局快门模式下的关联双采样 (CDS) 支持可降低噪点，提高动态范围。该传感器具有片上可编程增益放大器和 10 位 A/D 转换器。集成时间和增益参数可以重新配置，而不会出现任何可见的图像瑕疵。可选的片上自动曝光控制环路 (AEC) 动态控制这些参数。图像的黑度等级可自动校准或通过增加用户可编程的偏移进行调整。使用四线串行外围接口的较高编程能力让用户能够读取感兴趣的具体区域。最多可编程 4 个区域，实现更高的帧速率。该传感器具有 1 个 LVDS 通道，在零 ROT 模式下实现最高每秒 120 帧的帧速率。提供了一个包含负载信息的单独同步沟道，实现了接收端的图像重构。该器件还以更低的帧速率提供并联 CMOS 输出接口。PYTHON 480 以单色和拜耳彩色配置提供 67 引脚 CSP，带有标准和宽 CRA 选项。

特性

- Global Shutter technology with Correlated Double Sampling
- SVGA resolution with 120 fps
- Compact CSP package
- 4.8 μm pixel size
- Significant power savings vs PYTHON 500 (same resolution)

优势

- Enables capture of moving objects without artifacts with single digit noise performance
- High SVGA frame rate in small footprint
- Enables small camera design
- Provides high sensitivity with low read noise
- Enables battery powered operation

应用

- Image Capture

终端产品

- Machine Vision camera
- Industrial cameras and systems
- Barcode scanning
- Industrial Automation system
- Collision avoidance system (Drone)

器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (μm)	Output Interface	Color	Package Type
NOIP1SE0480A-STI		Pb-free Halide free	Active	CMOS	0.48	120	1/3.6 inch	Pipelined and Triggered Global	4.8 x 4.8	LVDS Parallel	Bayer Color	ODCSP-67
NOIP1SE0480A-STI1		Pb-free Halide free	Active	CMOS	0.48	120	1/3.6 inch	Pipelined and Triggered Global	4.8 x 4.8	LVDS Parallel	Bayer Color	ODCSP-67
NOIP1SF0480A-STI		Pb-free Halide free	Active	CMOS	0.48	120	1/3.6 inch	Pipelined and Triggered Global	4.8 x 4.8	Parallel LVDS	Bayer Color	ODCSP-67
NOIP1SF0480A-STI1		Pb-free Halide free	Active	CMOS	0.48	120	1/3.6 inch	Pipelined and Triggered Global	4.8 x 4.8	Parallel LVDS	Bayer Color	ODCSP-67
NOIP1SN0480A-STI		Pb-free Halide free	Active	CMOS	0.48	120	1/3.6 inch	Pipelined and Triggered Global	4.8 x 4.8	LVDS Parallel	Mono	ODCSP-67
NOIP1SN0480A-STI1		Pb-free Halide free	Active	CMOS	0.48	120	1/3.6 inch	Pipelined and Triggered Global	4.8 x 4.8	Parallel LVDS	Mono	ODCSP-67
NOIP1SP0480A-STI		Pb-free Halide free	Active	CMOS	0.48	120	1/3.6 inch	Pipelined and Triggered Global	4.8 x 4.8	LVDS Parallel	Mono	ODCSP-67
NOIP1SP0480A-STI1		Pb-free Halide free	Active	CMOS	0.48	120	1/3.6 inch	Pipelined and Triggered Global	4.8 x 4.8	LVDS Parallel	Mono	ODCSP-67

欲了解更多信息，请联系您当地的销售支援 www.onsemi.cn。

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