



- Versatile IEEE 1394b camera
- Advanced feature set
- Many variants
- High frame rates

High-end FireWire

Fast 1394b cameras with high frame rates and powerful features

Pike F-421 搭载 ON Semi KAI-04022 传感器，在 4.2 MP 分辨率下速度可达 16 帧/秒。

The Pike is a fast IEEE 1394b camera for demanding applications (e.g. industrial and medical imaging). Numerous pre-processing functions produce an outstanding image quality. Pike cameras operate with very high frame rates.

Pike cameras include extraordinary image pre-processing functions like the High SNR mode (up to 24 dB better signal-to-noise ratio).

Pike cameras are available both with two copper ports (for daisy-chaining) and with copper/GOF (glass optical fiber) ports.

- Sony and OnSemi CCD sensors (1/3, 1/2, 2/3, 1, 1.2, 35 mm)
- 8 models (VGA to 16 Megapixel)
- Options
 - 1394b connectors: daisy chain copper or copper and GOF
 - Various IR cut/pass filters
 - F/M39-Mount (F-032 only: CS/M12-Mount)
 - Pike F-1100/F-1600: M42/M58-Mount
 - Hirose power: out
 - Angled head
 - White medical housing
 - Sensor variants: Taped cover glass w/o microlenses, fixed quartz cover glass w/o microlenses available for some models

性能参数

| | |
|----------|---|
| 接口 | IEEE 1394b - 800 Mb/s, 2 ports, daisy chain, fiber optic (GOF) optional |
| 分辨率 | 2048 (H) × 2048 (V) |
| 传感器 | ON Semi KAI-04022 |
| 传感器类型 | CCD Progressive |
| 传感器尺寸 | Type 1.2 |
| 像元尺寸 | 7.4 μm × 7.4 μm |
| 标准镜头接口 | C-Mount |
| 最大满帧帧率 | 16 fps |
| ADC | 14 Bit |
| 缓存 (RAM) | 64 MByte |

输出

| | |
|--------------------|-----------------------|
| Bit 位数 | 8-bit to 14-bit |
| 黑白像素格式 | Mono8, Mono12, Mono16 |
| RGB 彩色像素格式 | RGB8 |
| Raw 彩色像素格式 (Bayer) | Raw8, Raw12, Raw16 |

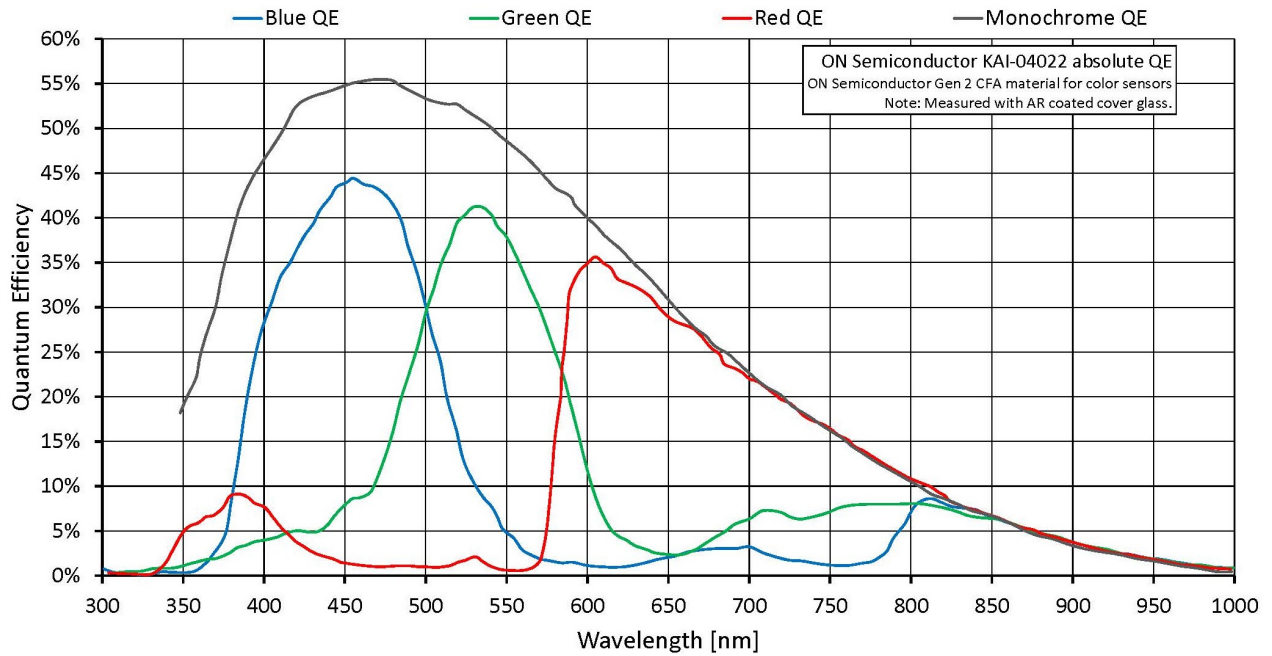
通用输入输出口 (GPIOs)

| | |
|---------|---------------------|
| 光耦 I/Os | 2 inputs, 4 outputs |
| RS232 | 1 |

工作条件/尺寸

| | |
|----------------------|---------------------------------------|
| 工作温度 | +5 °C to +50 °C |
| 电源要求 (DC) | 8 V to 36 V |
| 功耗 | 4 W (@ 12 VDC) |
| 重量 | 250 g |
| 尺寸 (L × W × H in mm) | 96.8 × 44 × 44 (including connectors) |

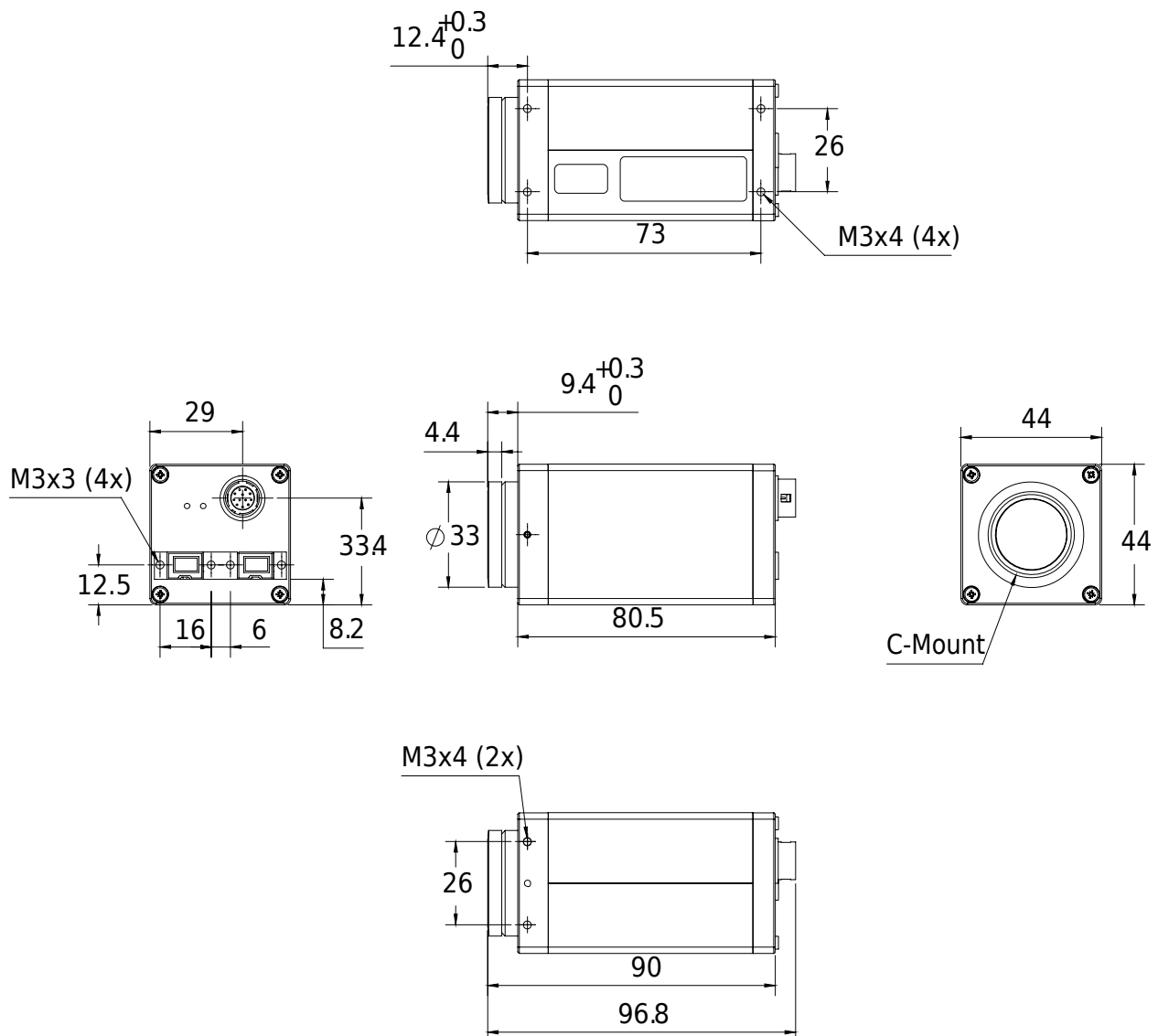
量子转换效率



特性

- High SNR mode (up to 24 dB better signal-to-noise ratio)
- Low-noise binning mode
- Smear reduction
- Shading correction
- Area of interest (AOI), separate AOI for auto features
- Binning
- Decimation
- Auto gain (manual gain control: 0 to 22 dB)
- Auto exposure (70 μ s to 67 s)
- Auto white balance
- Look-up table (LUT)
- Hue, saturation, color correction
- Reverse X
- Deferred image transport
- Trigger programmable, level, single, bulk, programmable delay
- Sequence mode (changes the camera settings on the fly)
- SIS (secure image signature, time stamp for trigger, frame count)
- Storable user sets

外形尺寸



应用场景

Equipped with a large sensor format (type 1.2), the Pike F-421B/F-421C is the perfect fit for low-light applications. It is distinguished by high-resolution images and an extraordinary image quality with very low noise. The smart pre-processing features of the Pike even enhance the image quality. This Pike camera is especially suited for:

- Applications which require the highest image quality even with low light
- OEM applications (modular concept)
- Microscopy
- Science and research

- Intelligent traffic solutions (ITS)
- Long cable lengths, 400 meters and more (fiber version)