



## Pike F-421



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

### 基本描述

#### 4 Megapixel camera with ON Semiconductor KAI-04022 type 1.2 sensor – high resolution, low noise

The Pike F-421B/F-421C is equipped with an ON Semiconductor type 1.2 CCD sensor. The reason for this large sensor format is the goal to achieve high resolution images with low noise. The sensor has a wide pixel pitch of 7.4  $\mu\text{m}$ . At full resolution, the camera runs up to 16 frames per second. Higher frame rates can be reached by using a smaller area of interest (AOI), binning (b/w), or sub-sampling.

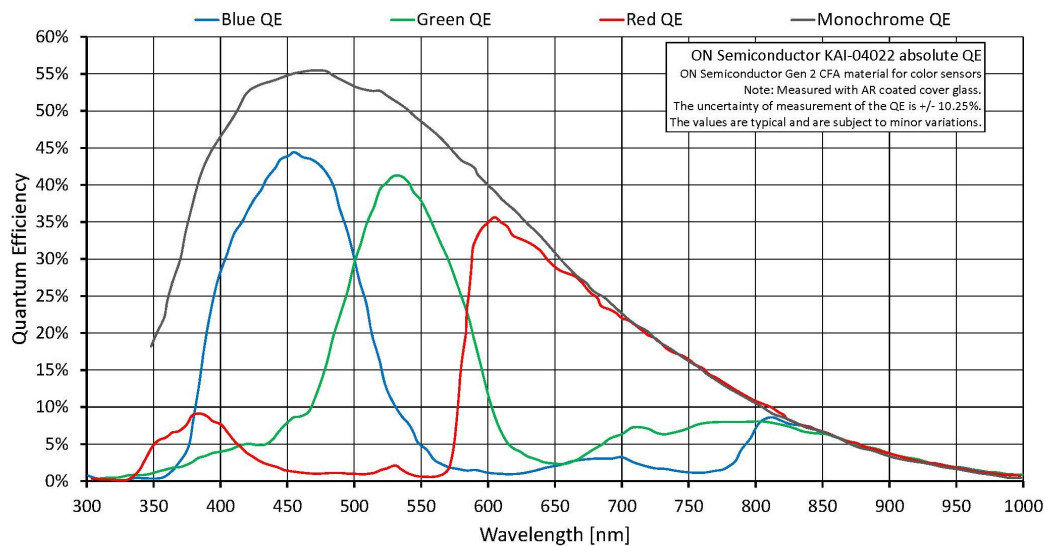
Options:

- IEEE 1394b connectors: 2 x copper (daisy chain) or 1 x GOF, 1 x copper, Hirose power: out
- Various IR cut/pass filters, various lens mounts
- Angled head, white medical housing

### 性能参数

Pike	F-421
接口	IEEE 1394b - 800 Mb/s, 2 ports, daisy chain, fiber optic (GOF) optional
分辨率	2048 (H) $\times$ 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 $\mu\text{m}$ $\times$ 7.4 $\mu\text{m}$
标准镜头接口	C-Mount
最大满帧帧率	16 fps
ADC	14 bit

Pike	F-421
缓存 (RAM)	64 MByte
	输出
Bit位数	8-14 bit
黑白像素格式	Mono8, Mono12, Mono16
RGB彩色像素格式	RGB8
原始像素格式	Raw8, Raw12, Raw16
	通用输入输出(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)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS); FCC Class B



## 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  $\mu$ 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)