



## Pike F-210



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

### 基本描述

#### HDTV camera with video frame rate - 2 Megapixels

The Pike F-210B is equipped with an ON Semiconductor KAI-2093 CCD sensor, and it features smart real-time functions. At full resolution, it runs up to 31 frames per second. Higher frame rates can be reached by using a smaller area of interest (AOI), binning (b/w), or sub-sampling. By default monochrome models ship with protection glass B 270.

Options:

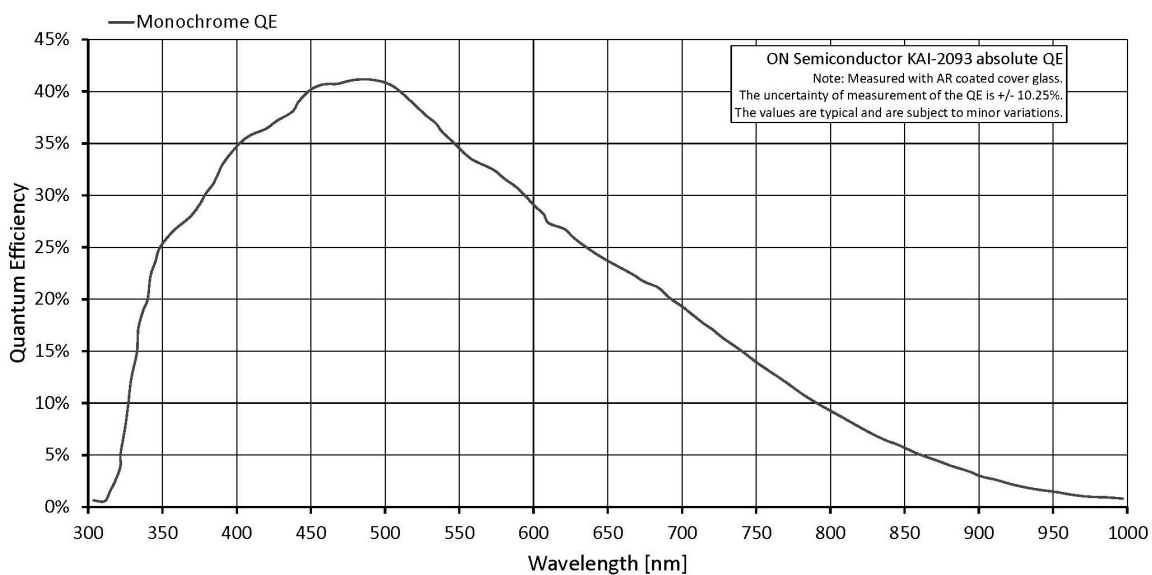
- IEEE 1394b connectors: 2 x copper (daisy chain) or 1 x GOF, 1 x copper, Hirose power: out
- Various IR cut/pass filters, various lens mounts
- Angled head, white medical housing

### 性能参数

|          |   |
|----------|---|
| Pike     | F-210   |
| 接口       | IEEE 1394b - 800 Mb/s, 2 ports, daisy chain, fiber optic (GOF) optional |
| 分辨率      | 1920 (H) × 1080 (V)   |
| 传感器      | ON Semi KAI-2093  |
| 传感器类型    | CCD Progressive   |
| 传感器尺寸    | Type 1  |
| 像元尺寸     | 7.4 μm × 7.4 μm   |
| 标准镜头接口   | C-Mount   |
| 最大满帧帧率   | 31 fps  |
| ADC      | 14 bit  |
| 缓存 (RAM) | 64 MByte  |

输出

|                     |  |
|---------------------|--|
| Pike                | F-210  |
| Bit位数               | 8-14 bit   |
| 黑白像素格式              | Mono8, Mono12, Mono16                                |
| 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 |



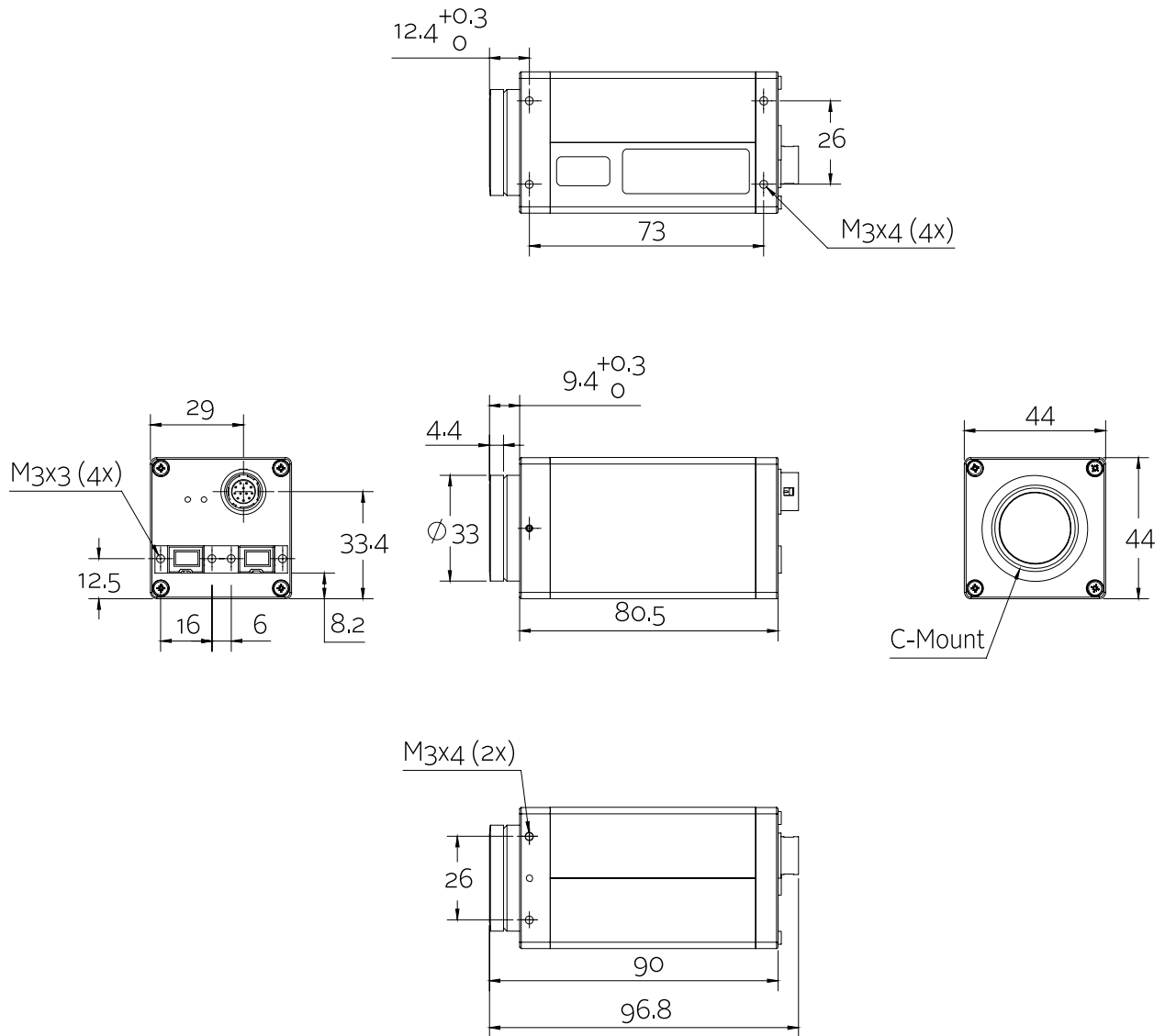
## 特性

- 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 (43  $\mu$ s to 67 s)
- Look-up table (LUT)
- 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

The Pike F-210B suits for applications which require the highest quality in HDTV resolution (1920 x 1080) at video frame rates. Besides the excellent image quality, its flexibility makes it suitable for many applications. The fiber version supports cable lengths of 400 meters and even more without any additional repeaters.

Pike cameras are especially suited for:

- Entertainment, movie pre-production, video recording
- OEM applications (modular concept)
- Motion studies
- Science and research
- Healthcare and sports
- Event documentation
- Intelligent traffic solutions (ITS)
- Long cable lengths, 400 meters and more (fiber version)