



## **Description**

### Fast VGA camera, high quality, 1394b FireWire, 208 fps

The Pike F-032B/C is a very fast VGA camera with premium image quality and a fast FireWire 1394b interface. It is equipped with a Kodak KAI-0340 CCD sensor. At full resolution, it runs 208 fps. Higher frame rates can be reached by a smaller AOI, binning (b/w), or sub-sampling. The Pike F-032B/C is an excellent motion analysis camera.

- Kodak KAI-0340
- Trigger
  - Programmable, trigger level control, single trigger, bulk trigger, programmable trigger delay
- Options
  - 1394b connectors: daisy chain copper or copper and GOF
  - Various IR cut/pass filters
  - ∘ CS-Mount, M12-Mount adapter
  - Hirose power: out
  - Angled head
  - White medical housing

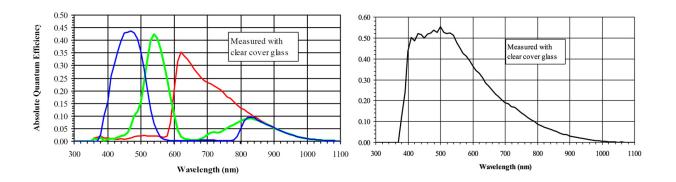


# **Specifications**

Pike	F-032
Interface	IEEE 1394b - 800 Mb/s, 2 ports, daisy chain, fiber optic (GOF) optional
Resolution	640 x 480
Sensor	Kodak KAI-0340
Туре	CCD Progressive
Sensor Size	Type 1/3
Cell size	7.4 μm
Lens mount	С
Max frame rate at full resolution	208 fps
A/D	14 bit
On-board FIFO	64 MB
	Output
Bit depth	8-14 bit bit
Mono modes	Mono8, Mono12, Mono16
Color modes YUV	YUV411, YUV422
Color modes RGB	RGB8
Raw modes	Raw8, Raw12, Raw16
	General purpose inputs/outputs (GPIOs)
TTL I/Os	0
Opto-coupled I/Os	2 inputs, 4 outputs
RS-232	1
	Power/Mass/Dimensions/Regulations
Power requirements (DC)	8 V - 36 V
Power consumption (12 V)	4 W
Mass	250 g
Body Dimensions (L x W x H in mm)	96.8 x 44 x 44 mm including connectors, w/o tripod and lens
Regulations	CE, FCC Class B, RoHS

Download Pike technical drawing (click here)





### **Smart features**

- Programmable LUT, white balance, hue, saturation
- Debayering
- Gain
  - Auto/manual
  - ∘ Manual gain control: 0 22 dB
- Exposure
  - Auto/manual
  - Exposure time: 18 μs 67 s
- Color correction
- Shading correction
- High SNR mode (up to 24 dB better signal-to-noise ratio)
- Smear reduction
- Sub-sampling, 2x 8x binning (b/w)
- Separate AOI for auto features
- Sequence mode (changes the image settings on the fly)
- Image mirror
- Deferred image transport
- SIS (secure image signature, time stamp for trigger, frame count etc.)
- Storable user settings



### **Applications**

The Pike F-032B/C combines a very high frame rate of 208 fps with elaborate image pre-processing functions and a fast 1394b FireWire port. The modular design of the Pike provides many opportunities for customization.

This Pike camera is especially suited for:

- Applications which require high frame rates and outstanding image quality
- OEM applications (modular concept)
- Sports, motion studies
- 3D recordings of still and moving objects
- 3D scanning
- Science and research
- Healthcare
- Multimedia and entertainment
- ITS (Intelligent traffic solutions)
- Long cable lengths, 400 meters and more (fiber version)

### **Application Case Studies:**

• Motion Capture With AVT Cameras Makes Orthopedic Diagnosis Easier
With the aid of high-speed Pike 1394b cameras and SIMI Motion Software, doctors and scientists are researching musculoskeletal dysfunction and can already offer new therapies to patients, tailored to their individual needs.

#### Perfect Swing

With two Pike digital 1394b cameras, "Swing & See" helps recreational golfers to practice their swing like professionals do.

#### AVT Pike Makes Football Robot Nearly Unbeatable

Automated table soccer game designed by Cologne University of Applied Science.