



Pike F-100

Description

Premium 1 Megapixel FireWire camera with very high frame rates

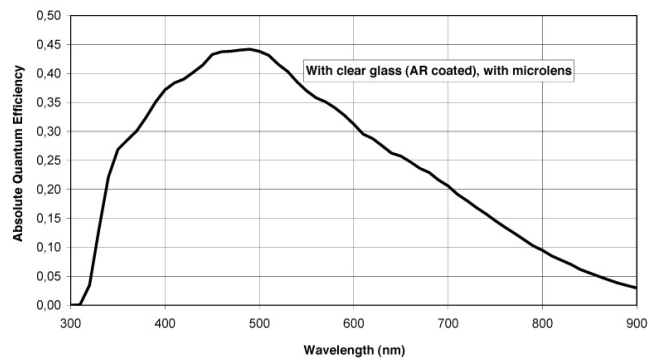
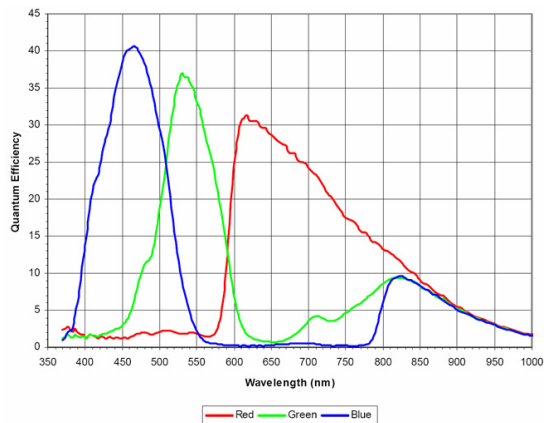
The Pike F-100B/C is equipped with a Kodak KAI-1020 CCD sensor. At full resolution, it runs at 60 fps (Mono8/Raw8). Higher frame rates can be reached by a smaller AOI, binning (b/w), or sub-sampling. The camera includes extraordinary image pre-processing functions like the High SNR mode (up to 24 dB better signal-to-noise ratio).

- Kodak KAI-1020
- 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
 - F/M39-Mount
 - Hirose power: out
 - Angled head
 - White medical housing

Specifications

Pike	F-100
Interface	IEEE 1394b - 800 Mb/s, 2 ports, daisy chain, fiber optic (GOF) optional
Resolution	1000 x 1000
Sensor	Kodak KAI-1020
Type	CCD Progressive
Sensor Size	Type 2/3
Cell size	7.4 μm
Lens mount	C
Max frame rate at full resolution	60 fps
A/D	14 bit
On-board FIFO	64 MB
Output	
Bit depth	8-14 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

[Pike technical drawing \(C-Mount\)](#)



Smart features

- Programmable LUT, white balance, hue, saturation
- Debayering
- Gain
 - Auto/manual
 - Manual gain control: 0 - 22 dB
- Exposure
 - Auto/manual
 - Exposure time: 43 μ s - 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-100B/C is a 1 Megapixel camera for sophisticated requirements. OEM customers profit from its modular design, which provides many opportunities for customization. For Healthcare and Life science applications, a light gray housing (medical design) is available (this applies to all cameras by Allied Vision Technologies).

Pike cameras are especially suited for:

- Applications which require high frame rates and outstanding image quality
- OEM applications (modular concept)
- 3D recordings
- Science and research
- Healthcare and sports
- Multimedia and entertainment
- Long cable lengths, 400 meters and more (fiber version)