



Pike F-505

Description

5 Megapixel premium camera with numerous image pre-processing functions

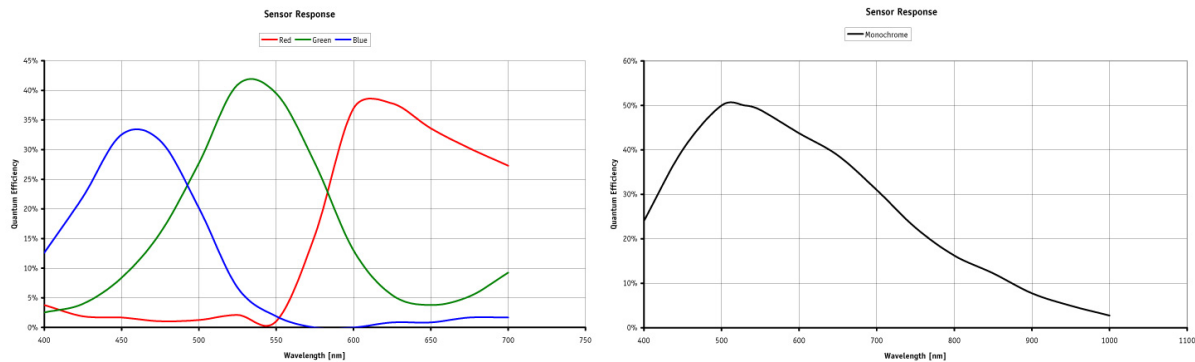
The Pike F-505B/C is equipped with a renowned Sony Super HAD CCD sensor and has an excellent image quality. At full resolution, it runs up to 15 fps. Higher frame rates can be reached by a smaller AOI, binning (b/w), or sub-sampling.

- Sony ICX625
- Two configurable inputs, four configurable outputs
- RS-232 port (serial port, IIDC V1.31)
- 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-505	
Interface	IEEE 1394b - 800 Mb/s, 2 ports, daisy chain, fiber optic (GOF) optional		
Resolution	2452 x 2054		
Sensor	Sony ICX625		
Type	CCD Progressive		
Sensor Size	Type 2/3		
Cell size	3.45 µm		
Lens mount	C		
Max frame rate at full resolution	15 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 - 24 dB
- Exposure
 - Auto/manual
 - Exposure time: 27 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-505B/C is perfectly suited for very demanding applications. The brilliant image quality can be enhanced by its image pre-processing functions. Due to the modular design, customization is easy and cost-effective. This camera fits especially for:

- Science and research
- Microscopy
- Healthcare and medical applications (white housing available)
- Multimedia, entertainment and sports
- Very demanding OEM camera applications
- ITS (Intelligent traffic solutions)
- Long cables - 400 meters and more without additional repeaters (fiber version)