



Pike F-1600

Description

16 Megapixel premium camera - 35 mm CCD sensor Kodak KAI-16000

The Pike F-1600B/C is a 16 Megapixel 1394b camera with exceptional image quality. It can be operated both with single tap and dual tap mode. At full resolution, it runs up to 3.1 fps (dual tap). Higher frame rates can be reached by a smaller AOI, binning (b/w), or sub-sampling.

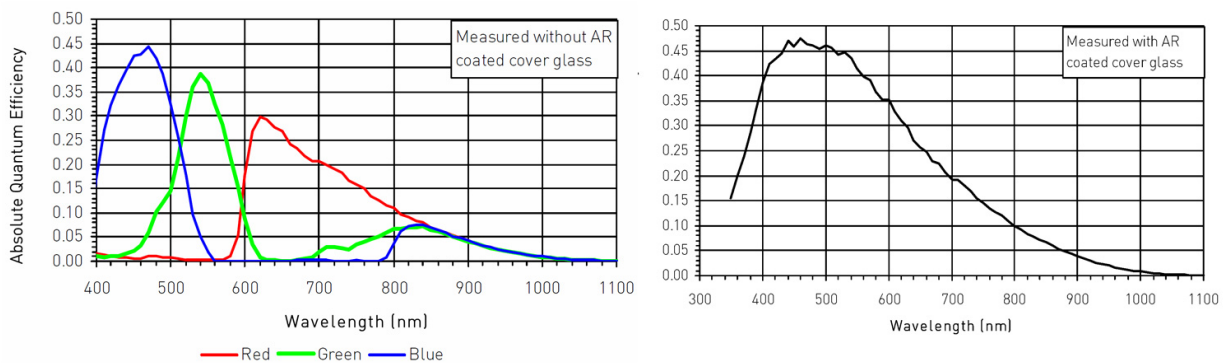
- Kodak KAI-16000
- Standard: Class 2 sensor, optional: Class 1 sensor
- Standard: F-Mount, optional: M42/M58-Mount
- Two configurable inputs, four configurable outputs
- RS-232 port (serial port, IIDC V1.31)
- External trigger: Programmable, trigger level control, single trigger, bulk trigger, programmable trigger delay
- Modular concept options: Various IR cut/pass filters, angled head, Hirose power: out; 1394b connectors: 2 x copper or 1 x GOF, 1 x copper

Please note: Due to the large sensor and the F-Mount, the Pike F-1600B/C has larger body dimensions than Pike cameras up to 5 Megapixels.

Specifications

Pike	F-1600
Resolution	4872 x 3248
Max frame rate at full resolution	3 fps
Type	CCD Progressive
Interface	IEEE 1394b - 800 Mb/s, 2 ports, daisy chain, fiber optic (GOF) optional
A/D	14 bit
Output	8-14 bit
Sensor Size	Type 35 mm
Sensor	Kodak KAI-16000
Cell size	7.4 μ m
On-board FIFO	256 MB
Body Dimensions (L x W x H in mm)	142.8 x 59 x 59 mm including connectors, w/o tripod and lens

Pike technical drawing (F-Mount)



Smart features

- Programmable LUT, white balance, hue, saturation
- Debayering
- Auto gain, auto exposure
- 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, enhanced time stamp)
- Storable user settings

Applications

The Pike F-1600B/C is made for high-precision applications which require highest attention to detail. Its excellent image quality can be enhanced by several image pre-processing functions. It is also available with M42-Mount or with M58-Mount.

This camera is well-suited for:

- Science and research
- Metrology
- Document scanning (replaces DSLR cameras - no mechanical shutter, long life time)
- Healthcare and medical applications
- Industrial inspection at high resolutions
- Aerial imaging
- Very demanding OEM camera applications
- Long cables - 400 meters and more without additional repeaters (fiber version)