



Pike F-210



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

Description

HDTV camera with video frame rate - 2 Megapixels

The Pike F-210B/C is equipped with a OnSemi KAI-2093 CCD sensor, and it features smart real-time functions. At full resolution, it runs up to 31 fps. Higher frame rates can be reached by a smaller AOI, binning (b/w), or sub-sampling.

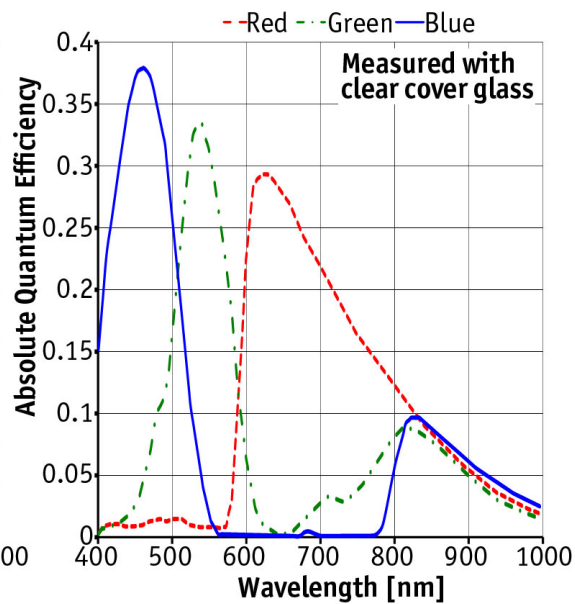
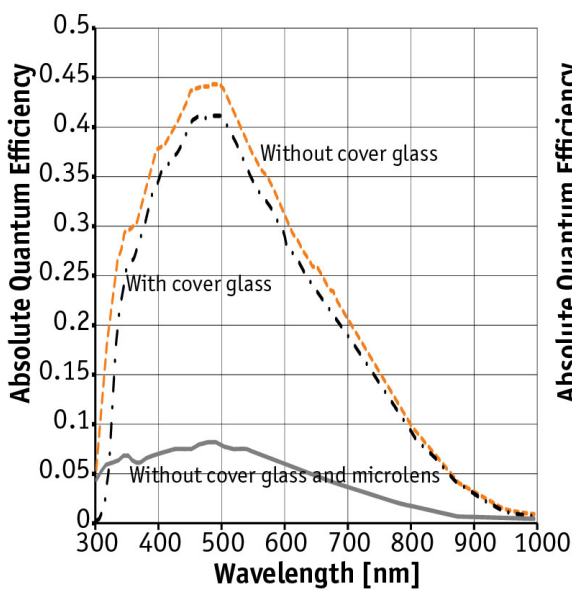
Options

- 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

Specifications

Pike	F-210
Interface	IEEE 1394b - 800 Mb/s, 2 ports, daisy chain, fiber optic (GOF) optional
Resolution	1920 × 1080
Sensor	OnSemi KAI-2093
Sensor type	CCD Progressive
Cell size	7.4 μm
Lens mount	C-Mount
Max frame rate at full resolution	31 fps
ADC	14 bit
On-board FIFO	64 Mbyte
Output	
Bit depth	8-14 bit
Mono modes	Mono8, Mono12, Mono16

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Color modes RGB	RGB8
Raw modes	Raw8, Raw12, Raw16
General purpose inputs/outputs (GPIOs)	
Opto-isolated I/Os	2 inputs, 4 outputs
RS-232	1
Operating conditions/dimensions	
Power requirements (DC)	8 V - 36 V
Power consumption (@12 V)	4 W
Mass	250 g
Body dimensions (L × W × H in mm)	96.8 × 44 × 44 mm including connectors, w/o tripod and lens
Regulations	CE, FCC Class B, RoHS



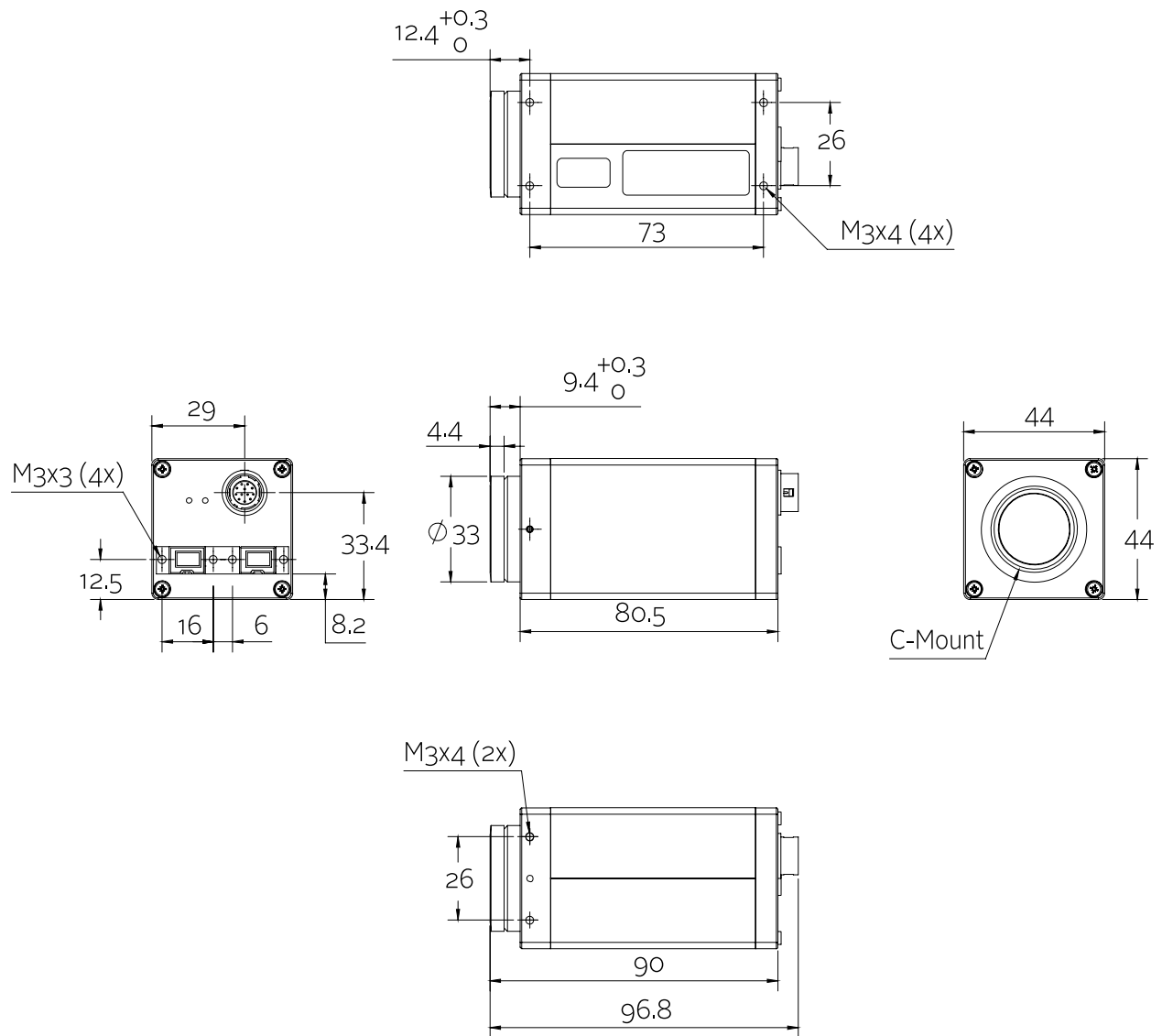
Features

- High SNR mode (up to 24 dB better signal-to-noise ratio)
- Low-Noise Binning Mode
- Smear reduction
- Shading correction
- ROI, separate ROI for auto features
- Binning
- Decimation
- Auto gain (manual gain control: 0 to 22 dB)



- Auto exposure (43 μ s to 67 s)
- Auto white balance
- LUT (look-up table)
- Hue, saturation, color correction
- 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 etc.)
- Storable user sets

Technical drawing





Applications

The Pike F-210B/C 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
- ITS (Intelligent traffic solutions)
- Long cable lengths, 400 meters and more (fiber version)