



## Pike F-505



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

## Description

5 Megapixel premium camera with numerous image pre-processing functions

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

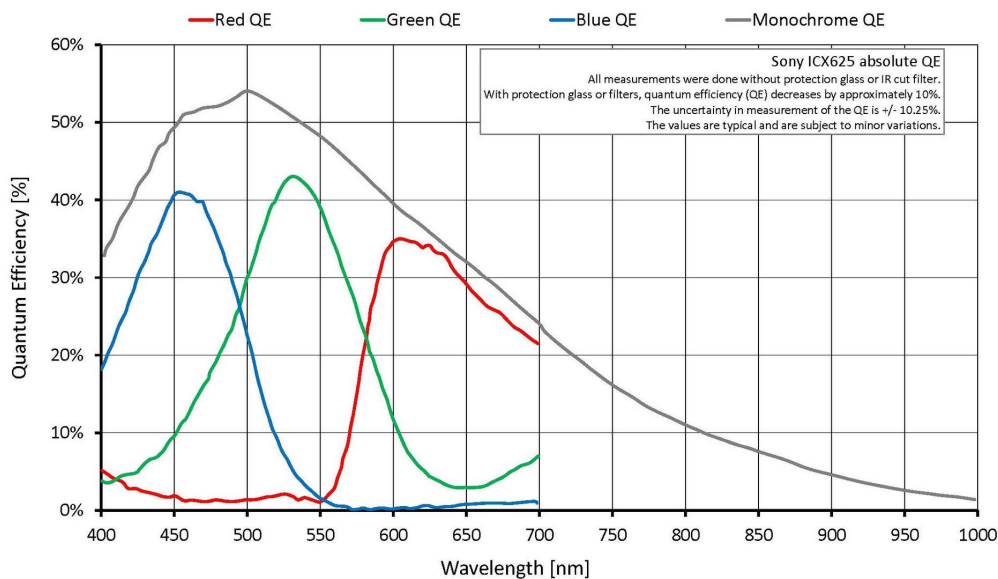
Options:

- IEEE 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-505
インターフェイス	IEEE 1394b - 800 Mb/s, 2 ports, daisy chain, fiber optic (GOF) optional
解像度	2452 (H) × 2054 (V)
センサー	Sony ICX625
Sensor type	CCD Progressive
センサーサイズ	Type 2/3
ピクセルサイズ	3.45 μm × 3.45 μm
レンズマウント (標準搭載)	C-Mount
フレームレート (フル解像度)	14 fps
ADC	14 bit
Image buffer (RAM)	64 MByte
	Output
Bit depth	8-14 bit

Pike	F-505
ビデオフォーマット(Mono)	Mono8, Mono12, Mono16
ビデオフォーマット(RGB)	RGB8
ビデオフォーマット(Raw)	Raw8, Raw12, Raw16
General purpose inputs/outputs (GPIOs)	
Opto-isolated I/Os	2 inputs, 4 outputs
RS232	1
Operating conditions/dimensions	
Operating temperature	+5 °C to +50 °C
Power requirements (DC)	8 V to 36 V
消費電力	4 W (@ 12 VDC)
Mass	250 g
Body dimensions (L × W × H in mm)	96.8 × 44 × 44 (including connectors)
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS); FCC Class B



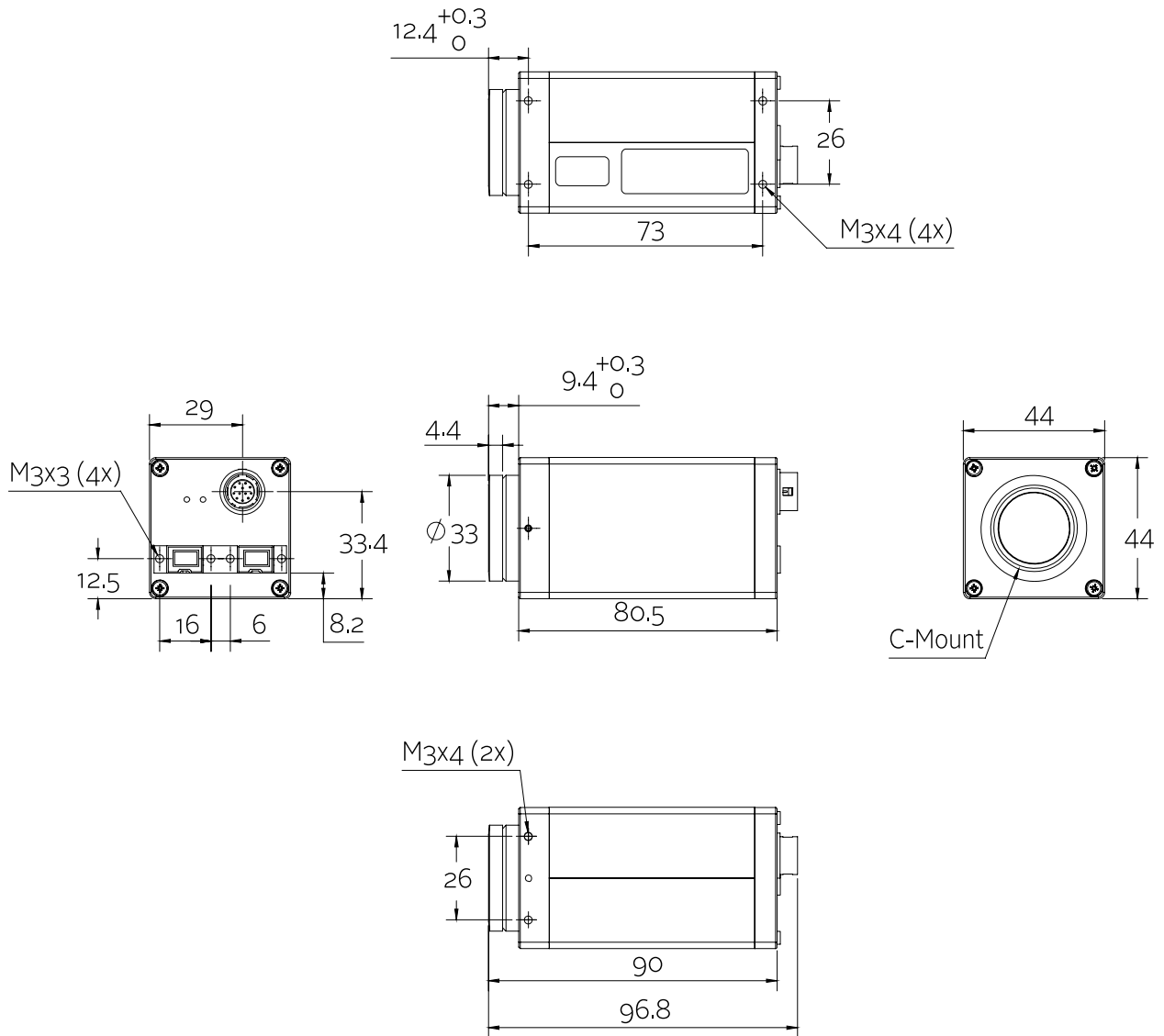
## Features

- High SNR mode (up to 24 dB better signal-to-noise ratio)
- Low-noise binning mode
- Smear reduction
- Shading correction
- Area of interest (AOI), separate AOI for auto features
- Binning



- Decimation
- Auto gain (manual gain control: 0 to 24 dB)
- Auto exposure (27  $\mu$ s to 67 s)
- Auto white balance
- Look-up table (LUT)
- 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)
- Storable user sets

## Technical drawing





## Applications

The Pike F-505B/F-505C 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)