



Pike

F-505

- Versatile 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/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.

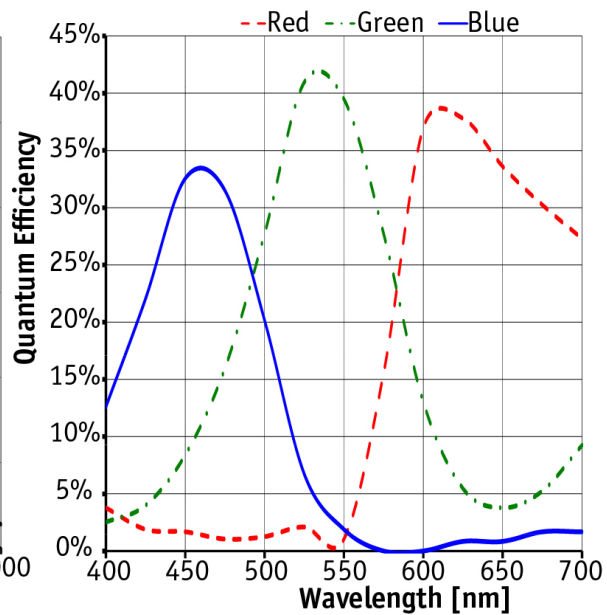
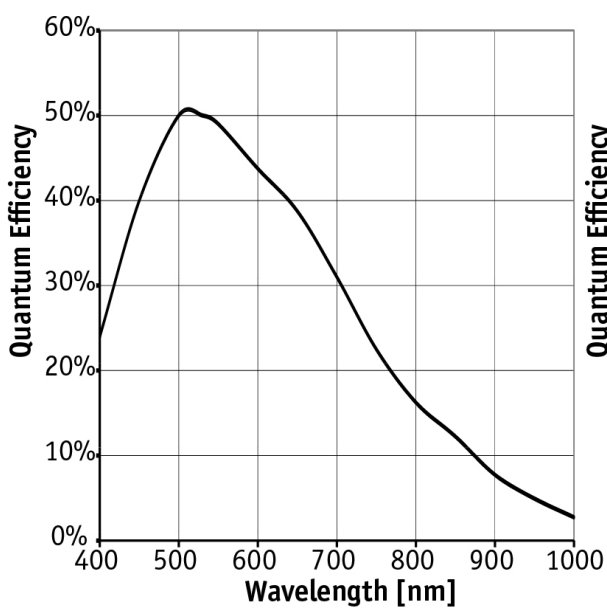
Options

- 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-505 |
|-----------------------------------|---|
| Interface | IEEE 1394b - 800 Mb/s, 2 ports, daisy chain, fiber optic (GOF) optional |
| Resolution | 2452 × 2054 |
| Sensor | Sony ICX625 |
| Sensor type | CCD Progressive |
| Cell size | 3.45 μm |
| Lens mount | C-Mount |
| Max frame rate at full resolution | 15 fps |
| ADC | 14 bit |
| On-board FIFO | 64 Mbyte |
| Output | |
| Bit depth | 8-14 bit |
| Mono modes | Mono8, Mono12, Mono16 |

| Pike | F-505 |
|---|---|
| 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 |



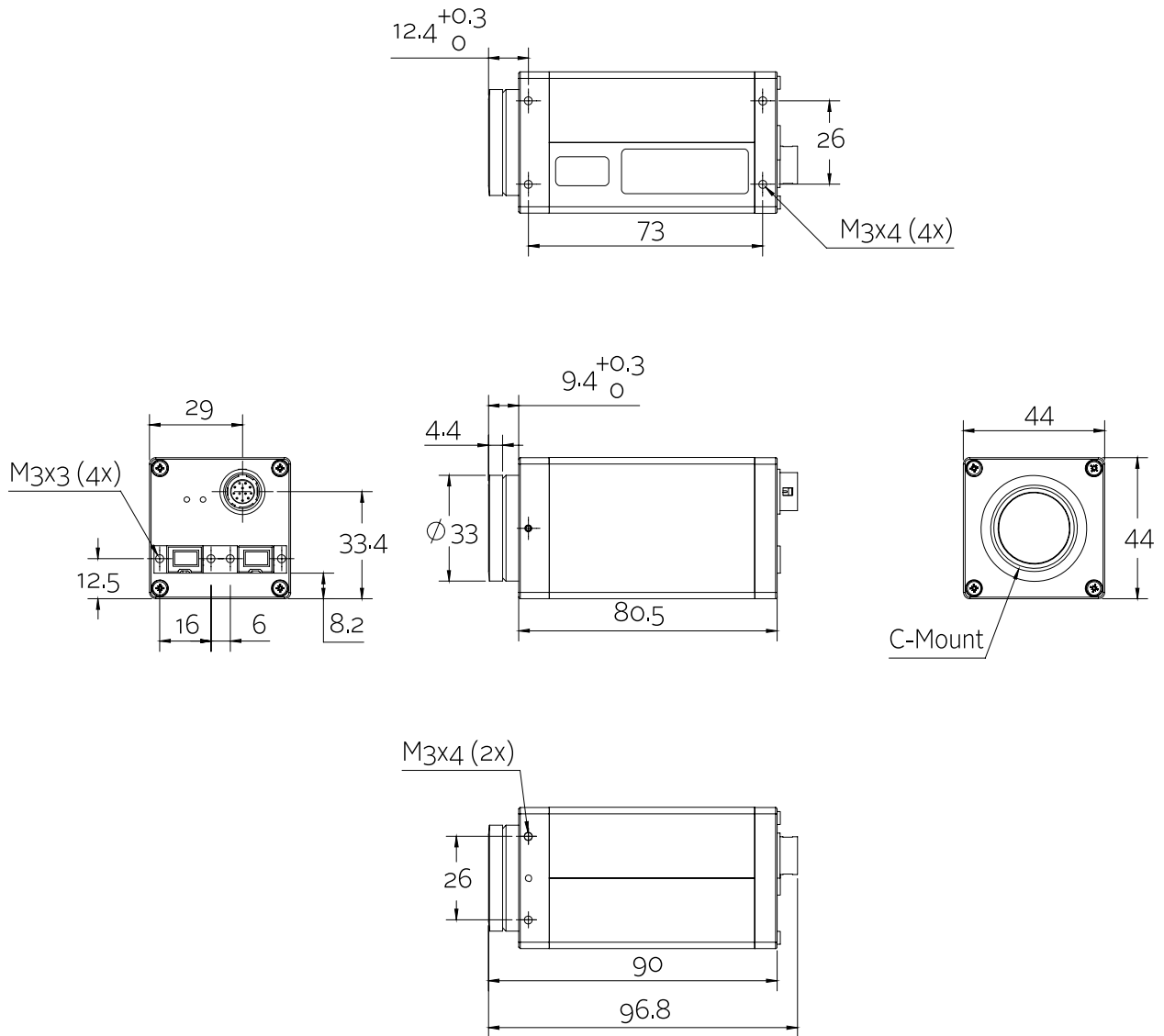
Features

- 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 24 dB)



- Auto exposure (27 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-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)