

USB3 Vision camera with hi-res Sony CMOS sensors - mvBlueFOX3-4

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- Compact industrial camera with USB 3
- Hi-res sensors greater than 1"
- Gray scale and color versions
- Hardware preprocessing on-board (FPGA)
- Image memory 256 MBytes
- Excellent cost-benefit ratio

The mvBlueFOX3-4 is the new USB3 Vision family for hi-res sensors with sizes greater than 1". The USB 3.2 industrial camera offers higher resolutions and frame rates as well as camera based smart features,

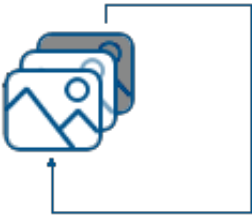
which reduce the load of the host system.

Your advantages with the mvBlueFOX3



Multiple AOIs in one image.

many applications just need one or several specific parts in an image to be checked. With MultiAOI you only get the relevant image areas which increases the frame rate.



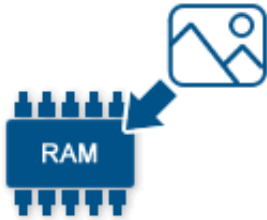
Comfortable acquisition sequences.

With the Sequencer Control you can define [Sequence recording using parameter sets](#) like gain, binning, exposure time, etc. which are then activated by a user-defined trigger source and event.



Huge camera FPGA reduces CPU load of your host system.

Huge camera FPGA with a lot of space for features. We add new features easily via free of charge firmware updates.



You won't lose an image with the internal image memory again.

The image memory buffers images and enables useful features like Record / Playback as well as Pretrigger.



For counting and triggering of events, counters are a handy feature for your application.

You can generate output signals variably, control illumination systems, synchronize several cameras, and a

lot more.



The suitable filter for your lighting situation or environmental condition.

You can choose between daylight cut (Cold Mirror), IR cut (Hot Mirror) or glass (without filter) filter, which can be intergrated.

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CMOS sensors (Sony Pregius - global shutter)

Pregius

CMOS

Model

	BF3-4-0169Z	BF3-4-0196Z	BF3-4-0315Z
Availability to order	✓	✓	✓
Variant ¹	G / C	G / C	G / C
Resolution ²	5472 x 3080	4432 x 4432	6480 x 4856
MPixel	16.9	19.6	31.5
Max. frame rate [Hz] ³	22.5 / 26.5 / 90.1	19.3 / 22.7 / 77	12 / 14.4 / 48.3
Binning ⁴	16 / 16 / 16 / 16	16 / 16 / 16 / 16	16 / 16 / 16 / 16
Shutter	Global	Global	Global
Sensor size	4/3	4/3	APS-C
Pixel size [µm]	3.45	3.45	3.45
Exposure time	10 µs - 20 s	10 µs - 20 s	10 µs - 20 s
ADC resolution / output	12	12	12
Spectral sensitivity	/	/	/

DR ⁴	70.8	70.7	39.7
EMVA 1288	G / C	G / C	G / C
Pipelined global shutter in trigger mode	✓	✓	✓
Manufacturer	Sony	Sony	Sony
Sensor	IMX387	IMX367	IMX342

¹ G = Gray, C = Color, E = Gray & Infrared Enhanced

² Data of gray scale version

³ streaming / [Burst mode](#) / Max. streaming depending on sensor either with 2x2 Binning or Decimation (Horizontal x Vertical)

⁴ Max. Binning Horizontal / Max. Binning Vertical / Max. Decimation Horizontal / Max. Decimation Vertical. **Note: Not all combinations of binning and decimation values are possible.**

⁵ mvDualADCEnable = On, otherwise 12

⁶ EMVA1288 measurement data of gray scale version

- USB 3.2 Gen 1 (5 GBit/s)
- Distances up to 8 meters (more with active repeater)
- APS-C mount