

## USB 3.0 board-level camera series mvBlueFOX3-5M

# USB3 BOARD LEVEL CAMERA FOR EMBEDDED VISION

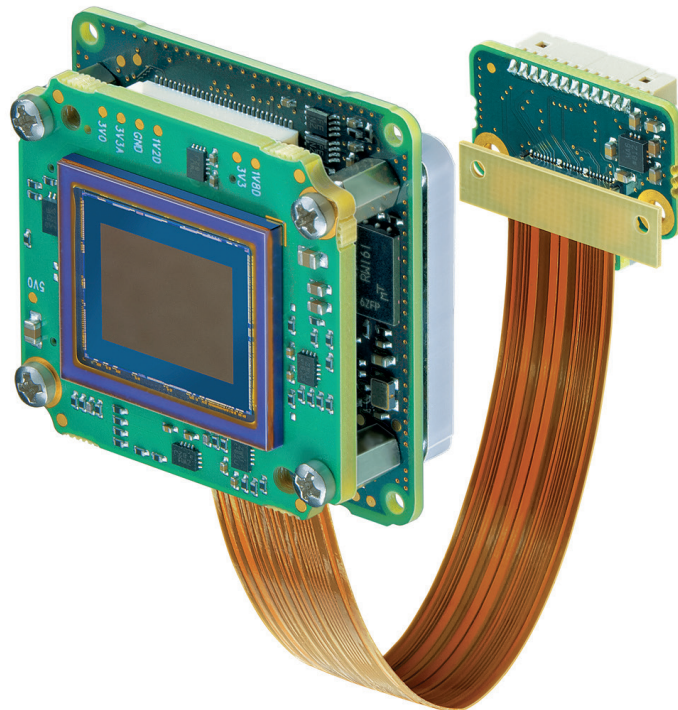
### Modular camera series for a wide variety of installation situations

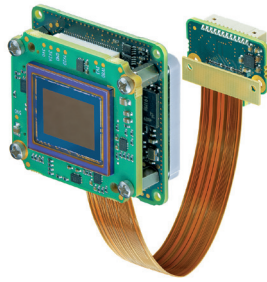
The USB3 Vision compliant camera series has a modular board design. The connector board with the BFembedded interface creates access to the Embedded Vision modular kit. The cameras have a huge image memory and a powerful FPGA for onboard preprocessing as well as digital interfaces.

Due to the board-to-board connector there are many integration scenarios in different environments possible. You can connect the power supply, USB as well as the digital I/Os by using the connector. Beside the available interface options you can realize custom specific solutions and direct connections to embedded computers thanks to the open BFembedded Interface.

### Features

- Compact form factor
- Reliable image transfer thanks to 256 MB image buffer
- FPGA based smart features reduce system load and simplify the overall system
- Simple integration in embedded systems with USB interface
- Combination with various USB3 connector boards thanks to BFembedded Interface
- Camera features are independent of the embedded system
- Same API as desktop Linux or Windows





## USB 3.0 BOARD LEVEL CAMERA mvBlueFOX3-5M

Modell BF3-5M	Variant <sup>1</sup>	Resolution <sup>2</sup>	Sensor size	Pixel size $\mu\text{m} \times \mu\text{m}$	Frame rate <sup>3</sup> FPS	Sensor technology	Shutter	ADC resolution / output in bits	Sensor
-0004F	G/C	728 x 544	1/2.9"	6.9 x 6.9	436.9	CMOS	Global	12	Sony IMX287
-0016Z	G/C	1456 x 1088	1/2.9"	3.45 x 3.45	226.5	CMOS	Global	12	Sony IMX273
-0024Z	G/C	1936 x 1216	1/1.2"	5.86 x 5.86	161.4	CMOS	Global	12	Sony IMX174
-0024A	G/C	1936 x 1216	1/1.2"	5.86 x 5.86	46.9	CMOS	Global	12	Sony IMX249
-0032Z	G/C	2064 x 1544	1/1.8"	3.45 x 3.45	119.2	CMOS	Global	12	Sony IMX252
-0032A	G/C	2064 x 1544	1/1.8"	3.45 x 3.45	55	CMOS	Global	12	Sony IMX265
-0051Z	G/C	2464 x 2056	2/3"	3.45 x 3.45	75	CMOS	Global	12	Sony IMX250
-0051P	G/C	2464 x 2056	2/3"	3.45 x 3.45	75	CMOS	Global	12	Sony IMX250_POL
-0051A	G/C	2464 x 2056	2/3"	3.45 x 3.45	35	CMOS	Global	12	Sony IMX264
-0064Z	G/C	3096 x 2080	1/1.8"	2.4 x 2.4	59	CMOS	Rolling	12	Sony IMX178
-0089Z	G/C	4112 x 2176	1"	3.45 x 3.45	42.4	CMOS	Global	12	Sony IMX255
-0089A	G/C	4112 x 2176	1"	3.45 x 3.45	31.9	CMOS	Global	12	Sony IMX267
-0124Z	G/C	4112 x 3008	1.1"	3.45 x 3.45	30.7	CMOS	Global	12	Sony IMX253
-0124A	G/C	4112 x 3008	1.1"	3.45 x 3.45	23	CMOS	Global	12	Sony IMX304
-0124R	G/C	4064 x 3044	1/1.7"	1.85 x 1.85	30.7	CMOS	Rolling	12	Sony IMX226
-0162A	G/C	5328 x 3040	1.1"	2.74 x 2.74	23.4	CMOS	Global	12	Sony IMX542
-0204A	G/C	4512 x 4512	1.1"	2.4 x 2.4	18.6	CMOS	Global	12	Sony IMX541
-0205Z	G/C	5544 x 3692	1"	2.4 x 2.4	18.5	CMOS	Rolling	12	Sony IMX183
-0246A	G/C	5328 x 4608	1.2"	2.74 x 2.74	15.4	CMOS	Global	12	Sony IMX540
-0315Z	G/C	6480 x 4856	APS-C	3.45 x 3.45	12	CMOS	Global	12	Sony IMX342

1 G = Gray, C = Color

2 Data of gray scale version

3 Streaming frame rate (burst mode frame rates see website)

### Accessories

#### Lens holders

- S-Mount
- C/CS-Mount

#### Interface boards

- USB3 Type C connector, right angled + 12-pin I/O
- USB3 Type Micro B connector, right angled + 12-pin I/O

#### Cables

- USB3 connecting cable Type C USB3 to USB3-A,  $\varnothing$  6.2 mm, with lock screws on both sides, for mvBlueFOX3-3M
- BFembedded extension cable

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