

mvBlueFOX3-M1

Technical Details

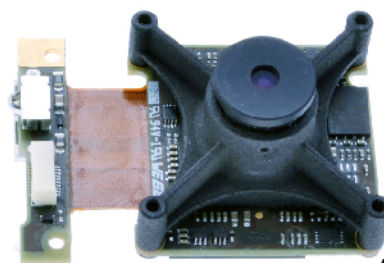


Figure shows additional accessories
S-mount lens holder and S-mount lens



Sensors

mvBlueFOX3-M		Resolution (H x V pixels)	Sensor size (optical)	Pixel size (µm)	Frame rate	Sensor technology	Readout type	ADC resolutions	Sensor
-1012b	G/C	1280 x 960	1/3"	3.75 x 3.75	40.6	CMOS	Global	12	Aptina MT9M031
-1012d	G/C	1280 x 960	1/3"	3.75 x 3.75	40.6	CMOS	Rolling	12	Aptina MT9M034
-1013	G/C ²	1280 x 1024	1/1.8"	5.3 x 5.3	60	CMOS	Global	10	E2V EV76C560
-1013	GE ^{1,2}	1280 x 1024	1/1.8"	5.3 x 5.3	60	CMOS	Global	10	E2V EV76C661
-1020	G/C ²	1600 x 1200	1/1.8"	4.5 x 4.5	51.7	CMOS	Global	10	E2V EV76C570
-1020a	G/C ²	1600 x 1200	1/1.8"	4.5 x 4.5	60	CMOS	Global	10	E2V EV76C570
-1031	C	2048 x 1536	1/3"	2.2 x 2.2	21 / 31.4 ³	CMOS	Rolling	12	Aptina AR0331
-1100	G/C	3856 x 2764	1/2.3"	1.67 x 1.67	7.3	CMOS	Rolling	12	Aptina MT9J003

¹ Infrared enhanced

² Linescan mode

³ @full / @1080p

Hardware Features

Protocol	Compliant to USB3 Vision	
Interface	USB 2.0 / 3.0 (up to 480 Mbit/s / up to 5 Gbit/s)	
Image formats	Mono8/10/12/14/16 BayerGR8/10/12/16, RGB8Packed, BGR8Packed, BGRA8Packed, BGR10V2Packed, YUV422/444Packed, YUV422_YUYVPacked onboard color processing	
Triggers	External, software based or free run	
Size sensor board w/o lens (W x H)	34.5 x 34.5 mm	
Permissible ambient temperature	Operation:	0 .. 45 °C / 30 to 80 % RH
	Storage:	-20 .. 60 °C / 20 to 90 % RH
Lens mounts	S-mount	
Digital I/Os	2 opto-isolated inputs / 4 opto-isolated outputs (freely configurable) as an option	
Image memory	256 MBytes	
Flash (firmware, calibration, user data)	16 MBytes	
Conformity	CE, FCC, RoHS	
Driver	mvIMPACT Acquire SDK or any USB3 Vision compliant interface or vision library	
Operating systems	Windows®, Linux® - 32 bit and 64 bit	
Special features	Burst mode, onboard color processing, Micro-PLC, board-level variant, enhanced temperature (ET) option available, separate I/O board available	

Dimensions (in mm)

front view	side view	bottom / interface view

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