



Dimensions in mm



Sensors

BF3		Resolution (H x V pixels)	Sensor size (optical)	Pixel size (µm)	Frame rate	Sensor technology	Readout type	ADC resolution / output in bits	Sensor
-M1012b	G/C	1280 x 960	1/3"	3.75 x 3.75	45.7	CMOS	Global	12	Aptina MT9M031
-M1012d	G/C	1280 x 960	1/3"	3.75 x 3.75	45.7	CMOS	Rolling	12	Aptina MT9M034
-M1013	G/C	1280 x 1024	1/1.8"	5.3 x 5.3	60	CMOS	Global	10	E2V EV76C560
-M1013	GE	1280 x 1024	1/1.8"	5.3 x 5.3	60	CMOS	Global	10	E2V EV76C661
-M1020	G/C	1600 x 1200	1/1.8"	4.5 x 4.5	51.7	CMOS	Global	10	E2V EV76C570
-M1020a	G/C	1600 x 1200	1/1.8"	4.5 x 4.5	60	CMOS	Global	10	E2V EV76C570
-M1031	C	2048 x 1536	1/3"	2.2 x 2.2	21 / 31.4	CMOS	Rolling	12	Aptina AR0331
-M1100	G/C	3856 x 2764	1/2.3"	1.67 x 1.67	7.3	CMOS	Rolling	12	Aptina MT9J003

¹ Streaming frame rate (burst mode frame rates see website)

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 w/o lens (W x H)	34.5 x 34.5 mm
Weight w/o lens	approx. 7 g
Permissible ambient temperature	Operation: 0...45 °C / 30 to 80 % RH Storage: -20...60 °C / 20 to 90 % RH
Lens mounts	C-mount, CS-mount available
Digital I/Os	2 opto-isolated inputs / 4 opto-isolated outputs (freely configurable) as an option
Image memory / Flash (firmware, calibration, user data)	256 MBytes, 16 MBytes
Conformity	CE, FCC, RoHS
Driver	mvIMPACT Acquire SDK or any USB3 Vision compliant interface or vision library for Windows®, Linux® (32 bit & 64 bit)
Special features	Burst mode, onboard color processing, frame average