Basler MED ace

CAMERAS FOR MEDICAL & LIFE SCIENCES

USB3 VISION GiGE VISION

- Specifically designed for Medical & Life Sciences
- Basler's powerful MED feature sets
- CMOS technology at its best with Sony Pregius and ON Semiconductor PYTHON sensors
- Up to 164 fps and 20 MP
- Compliant with DIN EN ISO 13485:2016

ISO 13485:2016

BASLER
the power of sight

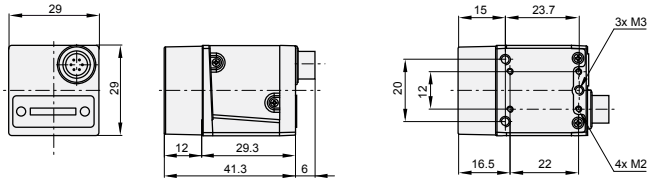
TECHNICAL DETAILS

USB3 VISION GiGE VISION

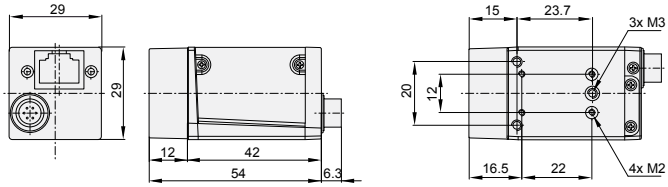
NEW

	MED ace 2.3 MP 41 color/mono	MED ace 2.3 MP 164 color/mono	MED ace 5.1 MP 35 color/mono	MED ace 5.1 MP 75 color/mono	MED ace 5.3 MP 20 color/mono
Camera					
Camera Category	ace U	ace U	ace U	ace U	ace U
Resolution (H x V pixels)	1920 × 1200	1920 × 1200	2448 × 2048	2448 × 2048	2592 × 2048
Sensor	Sony Pregius IMX249	Sony Pregius IMX174	Sony Pregius IMX264	Sony Pregius IMX250	ON Semiconductor PYTHON 5000
Sensor Size [mm]	11.25 × 7.03	11.25 × 7.03	8.45 × 7.07	8.45 × 7.07	12.44 × 9.83
Sensor Size (optical)	1/1.2"	1/1.2"	2/3"	2/3"	1"
Sensor Technology	CMOS, global shutter				
Pixel Size [µm²]	5.86 × 5.86	5.86 × 5.86	3.45 × 3.45	3.45 × 3.45	4.8 × 4.8
Frame Rate [fps]	41	164	35	75	20
Exposure Control	Via hardware trigger or programmable via the camera API				
Mono/Color	Mono/Color				
Video Output Format	Mono (8, 12, 12 Packed), Bayer RG (8, 12, 12 Packed), YCbCr422_8, RGB8, BGR8				Mono (8, 10, 10 Packed), Bayer BG (8, 10, 10 Packed), YUV 4:2:2 (Packed, YUYV Packed)
Interface	USB 3.0				Gigabit Ethernet
Mechanical/Electrical					
Housing Size	29.3 mm × 29 mm × 29 mm				42 mm × 29 mm × 29 mm
Housing Temp.	0 °C – 50 °C				
Lens Mount	C				
Digital I/O	1 opto-isolated input + 1 opto-isolated output + 2 Fast GPIO (configurable as In/Out)				1 opto-isolated input + 1 opto-isolated output + 1 GPIO
Power Requirements	Via USB 3.0 interface				Power over Ethernet (IEEE 802.3af) or 12-24 VDC (+/- 10%)
Power Consumption	2.9 W	3.7 W	2.7 W	3.4 W	PoE 4.1 W / AUX 3.6 W
Software Environment					
Driver	Basler pylon Camera Software Suite or 3rd party USB3 Vision Software				
Operating System	Windows, Linux, Mac OS X				
Conformity	CE, RoHS, GenICam, USB3 Vision, IP30, UL, FCC Class B, EMV Class B, CISPR				

Dimensions (in mm): **ace U USB 3.0**



Dimensions (in mm): **ace U GigE**

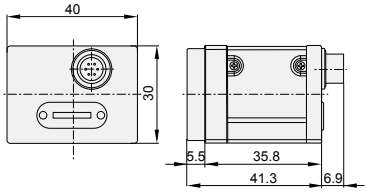


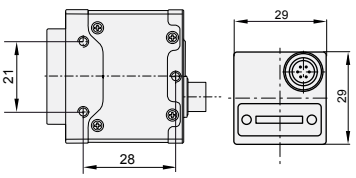
TECHNICAL DETAILS

NEW

	MED ace 8.9 MP 32 color/mono	MED ace 8.9 MP 42 color/mono	MED ace 12.3 MP 23 color/mono	MED ace 12.3 MP 30 color/mono	MED ace 20.0 MP 17 color/mono
Camera					**PLANNED***
Camera Category	ace L	ace L	ace L	ace L	ace U
Resolution (H × V pixels)	4096 × 2168	4096 × 2168	4096 × 3000	4096 × 3000	5544 × 3964
Sensor	Sony Pregius IMX267	Sony Pregius IMX255	Sony Pregius IMX304	Sony Pregius IMX253	Sony IMX183
Sensor Size [mm]	14.13 × 7.45	14.13 × 7.45	14.13 × 10.35	14.13 × 10.35	13.30 × 9.51
Sensor Size (optical)	1″	1″	1.1″	1.1″	1″
Sensor Technology	CMOS, global shutter				CMOS, rolling shutter
Pixel Size [µm²]	3.45 × 3.45	3.45 × 3.45	3.45 × 3.45	3.45 × 3.45	2.40 × 2.40
Frame Rate [fps]	32	42	23	30	17
Exposure Control	Via hardware trigger or programmable via the camera API				
Mono/Color	Mono/Color				
Video Output Format	Mono (8, 12, 12 Packed), Bayer RG (8, 12, 12 Packed), YCbCr422_8, RGB8, BGR8				
Interface	USB 3.0				
Mechanical/Electrical					
Housing Size	35.8 mm × 40 mm × 30 mm				29.3 mm × 29 mm × 29 mm
Housing Temp.	0 °C – 50 °C				
Lens Mount	C				
Digital I/O	1 opto-isolated input + 1 opto-isolated output + 2 Fast-GPIO (configurable as In/Out)				
Power Requirements	Via USB 3.0 interface				
Power Consumption	3.0 W	3.6 W	3.0 W	3.6 W	2.9 W
Software Environment					
Driver	Basler pylon Camera Software Suite or 3rd party USB3 Vision Software				
Operating System	Windows, Linux, Mac OS X				
Conformity	CE, RoHS, GenICam, USB3 Vision, IP30, UL, FCC Class B, EMV Class B, CISPR				

Dimensions (in mm): **ace L USB 3.0**





Dimensions (in mm): **ace U USB 3.0**