

Basler MED ace

Basler MED ace area scan cameras are our first camera series specifically designed for Medical & Life Sciences. They are also the perfect answer to the discontinuation of CCD sensors. Equipped with CMOS sensor technology at its best, the MED ace delivers even better image quality at much lower costs than CCD cameras.

With Sony's powerful PREGIUS sensors and exceptional PYTHON sensors by onsemi, the MED ace stands out with up to 164 fps and 20 MP, pixel sizes up to 5.86 μm and sensor sizes up to 1.1 inch.

Highlights

- Area scan camera specifically designed for Medical & Life Sciences
- Including Basler's powerful MED Feature Sets
- Latest CMOS technology with Sony PREGIUS and onsemi PYTHON sensors
- Compliant with ISO 13485:2016
- Ideal for applications such as microscopy, laboratory automation, ophthalmology

For more information, please visit baslerweb.com/MEDace



Basler's Powerful MED Feature Sets

Our unique and industry-leading MED Feature Sets for Medical & Life Sciences deliver everything that our customers are looking for. They combine market-leading hardware, firmware and pylon software features:

Easy Compliance



Brilliant Image



Perfect Color



Dust Protection⁺



Low Light Imaging



Industrial Excellence



High Speed



We developed these unique features specifically to address the high imaging demands in Medical & Life Sciences and to reduce our customers' development efforts.

Compliant with ISO 13485:2016

With the certification according to ISO 13485:2016, we have proven our quality standards. We have adapted our quality management system to the requirements of the ISO 13485:2016 standard in selected organizational areas, according to which we produce, distribute and service the MED ace cameras.

For you, this means consistency, reliability and quality. Whether you want to operate internationally or expand locally. The quality management standards set for the ISO 13485:2016 certification help you to achieve quick time to market. Let us assist you with documentation and preparation for the certification of your medical device.





MED ACE

Product Group Specifications

Interface	USB 3.0	GigE
Housing Size [L × W × H]	MED ace U: 29.3 mm × 29 mm × 29 mm MED ace L: 35.8 mm × 40 mm × 30 mm	42 mm × 29 mm × 29 mm
Housing Temperature During Operation	0 °C - 50 °C	0 °C - 50 °C
Typical Weight	80 g	90 g
Lens Mount	C-mount	C-mount
Power Supply	Via USB 3.0 interface	Power over Ethernet (IEEE 802.3af) or 12-24 VDC (+/- 10%)
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 (configurable as In/Out)
Synchronization	Via hardware trigger, via software trigger or free-run	Via hardware trigger, via Ethernet connection or free-run
Exposure Control	Via hardware trigger or programmable via the camera API	Via hardware trigger or programmable via the camera API
Conformity	ISO 13485:2016, CE, RoHS, GenICam, USB3 Vision, IP30, UL, FCC Class B, EMV Class B, KC ¹ , EAC ¹	ISO 13485:2016, CE, RoHS, GenICam, GigE Vision, IP30, IEEE 802.3af (PoE), UL, FCC Class B, KC, EAC ¹
Driver	Basler pylon Camera Software Suite or 3rd party USB3 Vision Software	Basler pylon Camera Software Suite or 3rd party GigE Vision Software
Operating System	Windows, Linux, macOS	Windows, Linux, macOS

¹Only for selected models, please refer to our website baslerweb.com/MEDace for detailed information.

CAMERA MODEL	SENSOR	RESOLUTION [H×V PIXELS]	RESOLUTION [MP]	SENSOR TYPE	SHUTTER	FRAME RATE [FPS]	PIXEL SIZE [μm ²]	OPTICAL SIZE
MED ace U USB 3.0								
MED ace 2.3 MP 41 m/c	IMX249	1920 × 1200	2.3	CMOS	Global	41	5.86 × 5.86	1/1.2"
MED ace 2.3 MP 164 m/c	IMX174	1920 × 1200	2.3	CMOS	Global	164	5.86 × 5.86	1/1.2"
MED ace 5.1 MP 35 m/c	IMX264	2448 × 2048	5	CMOS	Global	35	3.45 × 3.45	2/3"
MED ace 5.1 MP 75 m/c	IMX250	2448 × 2048	5	CMOS	Global	75	3.45 × 3.45	2/3"
MED ace 6.4 MP 59 m/c	IMX178	3088 × 2064	6.4	CMOS	Rolling	59	2.4 × 2.4	1/1.8"
MED ace 20.0 MP 17 m/c	IMX183	5472 × 3648	20	CMOS	Rolling	17	2.4 × 2.4	1"
MED ace L USB 3.0								
MED ace 8.9 MP 32 m/c	IMX267	4096 × 2160	9	CMOS	Global	32	3.45 × 3.45	1"
MED ace 8.9 MP 42 m/c	IMX255	4096 × 2160	9	CMOS	Global	42	3.45 × 3.45	1"
MED ace 12.3 MP 23 m/c	IMX304	4096 × 3000	12	CMOS	Global	23	3.45 × 3.45	1.1"
MED ace 12.3 MP 30 m/c	IMX253	4096 × 3000	12	CMOS	Global	30	3.45 × 3.45	1.1"
MED ace GigE								
MED ace 5.3 MP 20 m/c	PYTHON 5000	2590 × 2048	5	CMOS	Global	21	4.8 × 4.8	1"



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Basler MED Feature Sets in Brief



Easy Compliance

We produce, distribute and service our MED ace cameras according to ISO 13485:2016. In addition, we comply with all relevant standards.



Brilliant Image

You get best quality pictures from the first time you activate the camera because MED ace cameras have optimal wake-up settings, Basler's PGI algorithm and auto-image functions.



Perfect Color

Design the color reproduction of your picture yourself: e.g., by adjusting the settings for hue, saturation, brightness and contrast over the entire picture as well as for individual colors.



Dust Protection+

We ensure high cleanliness by sealing the sensor room, producing the MED ace separately in a clean-room and strictly testing selected components for dust and other particles during assembly.



Low Light Imaging

Thanks to modern CMOS sensor technology and our mode for long exposure times, you produce best quality images even in low light.



Industrial Excellence

Our tested high quality cameras together with our pylon software package, our extended camera control functions and our individual customer support enable easy camera integration.



High Speed

Global shutter, CMOS sensor technology and USB3 Vision interface technology enable frame rates of up to 164 frames per second with the MED ace.

For more information, please visit baslerweb.com/med-feature-sets

CAMERA	ISO 13485:2016	Brilliant Image	Perfect Color	Perfect Color ¹	Dust Protection+	Low Light Imaging	High Speed
MED ace 2.3 MP 41 m/c	•	•	•	•	• ¹		
MED ace 2.3 MP 164 m/c	•	•	•	•	• ¹	•	•
MED ace 5.1 MP 35 m/c	•	•	•	•	• ¹		
MED ace 5.1 MP 75 m/c	•	•	•	•	• ¹	•	•
MED ace 5.3 MP 20 m/c	•	•	•	•			
MED ace 6.4 MP 59 m/c	•	•	•	•	•		
MED ace 8.9 MP 32 m/c	•	•	•	•			
MED ace 8.9 MP 42 m/c	•	•	•	•		•	
MED ace 12.3 MP 23 m/c	•	•	•	•			
MED ace 12.3 MP 30 m/c	•	•	•	•		•	
MED ace 20 MP 17 m/c	•	•	•	•	•		

¹This MED Feature Set is available for color cameras only.