

FEATURES CHECK LIST (











Temperature State
Vignetting Correction



MED ace 2.3 MP 41 mono/color (IMX249), MED ace 2.3 MP 164 mono/color (IMX174), MED ace 5.1 MP 35 mono/color (IMX264), MED ace 5.1 MP 75 mono/color (IMX250), MED ace 6.4 MP 59 mono/color (IMX178), MED ace 8.9 MP 32 mono/color (IMX267), MED ace 8.9 MP 42 mono/color (IMX255), MED ace 12.3 MP 23 mono/color (IMX304), MED ace 12.3 MP 30 mono/color (IMX253), MED ace 20 MP 17 mono/color (IMX183)

MED Peatures	(IMX253), MED ace	20 MP 17 mono/color (IMX 183)	
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Configurable Input/Output Lines	Physical Interface and I/O Control	MED Features	
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User Sets (Configuration Sets) • 3 not available for IMX178 and IMX183	Device Information Parameters •		
The account of the contract of	Device Temperature •		and IMX183

Scheduled Action Commands
Synchronous Free Run



MED ace 5.3 MP 20 mono/color (PYTHON 5000)							
	mono color		mono color				
Physical Interface and I/O Control		MED Features					
Configurable Input/Output Lines		Quick Auto Brightness	•				
Inputs	1	User Set Light Microscopy	•				
Outputs	1	Tonal Range	•				
General Purpose I/O	1	Tonal Range Auto	•				
Debouncer	•	Light Source Presets Microscopy	•				
Line Minimum Output Pulse Width	•						
Line Course Clausele		Chunks Timestamp					
Line Source Signals Acquisition Trigger Wait		Trigger Input Counter					
		Line Status All					
Frame Trigger Wait Exposure Active		CRC Checksum	•				
 		Sequence Set Index	•				
User Output Timer 1 Active							
Timer 1 Active	•	Exposure Time	•				
Image Acquisition Control		Gain All	•				
Frame Start Trigger	•	Gain					
Triggered by Software	•	Frame Counter	•				
Triggered by Hardware	•	Event Reporting					
Trigger Delay	•	Exposure End	•				
Acquisition Status	•	Frame Start	•				
Sensor Readout Time	•	Frame Start Overtrigger	•				
Acquisition Start, Stop, and Abort	•	Acquisition Start	•				
Acquisition Mode	•	Action Late	•				
Acquisition Frame Rate	•	Acquisition Start Overtrigger	•				
Acquisition Start Trigger	•	Critical Temperature	•				
Standard Features		Over Temperature	•				
Gain	•	Pixel Formats					
Gain Auto	•	Mono 8	•				
Black Level	•	Mono 10	•				
Image ROI (Region of Interest)	•	Mono 10p (Mono 10 Packed)	•				
Binning	•	YCbCr422_8 (YUV422_8)	•				
Reverse X (Horizontal Mirroring)	•	Bayer RG 8	•				
Reverse Y (Vertical Mirroring)	•	Bayer RG 10	•				
Gamma Correction	•	Bayer RG 10p (Bayer 10 Packed)	•				
Exposure Mode: Trigger Width	•						
Exposure Auto	•	Color Creation and Enhancement	_				
Auto Function Profile	•	Balance White (Manual White Balance)	•				
Lookup Table (LUT)	•	Balance White Auto (Automatic White Balance)	•				
Test Images	•	Light Source Presets	•				
Sequencer	•	Color Adjustment (6 axis Hue/Saturation)	•				
Stacked ROI	•	Brightness and Contrast	•				
Center X and Center Y	•	Hue and Saturation	•				
Counter	•	Color Transformation	•				
Exposure Mode: Timed	•	PGI					
Exposure Time	•	5x5 Debayering	•				
Timer	•	Color-Anti-Aliasing	•				
		Denoising	•				
Miscellaneous Demove Deremeter Limits	•	Improved Sharpness	•				
Remove Parameter Limits	•						
User-Defined Values	•						
Device Information Parameters	•						
User Sets (Configuration Sets)	•						
Device Temperature	•						
Temperature State	•						
GigE Vision 2.0							
Precision Time Protocol (IEEE 1588)	•						
Action Commands (Synchronous Triggering)	•						

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.. Find more information on *baslerweb.com/med-feature-sets*.



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.

CAMERA MODEL	SENSOR	INTERFACE	BRILLIANT IMAGE	INDUSTRIAL EXCELLENCE	PERFECT COLOR ¹	DUST PROTECTION*	LOW LIGHT IMAGING	HIGH SPEED
					O		5	SPEED
MED ace 2.3 MP 41 mono/color	IMX249	USB 3.0	•	•	•	•1		
MED ace 2.3 MP 164 mono/color	IMX174	USB 3.0	•	•	•	•1	•	•
MED ace 5.1 MP 35 mono/color	IMX264	USB 3.0	•	•	•	•1		
MED ace 5.1 MP 75 mono/color	IMX250	USB 3.0	•	•	•	•1	•	•
MED ace 5.3 MP 20 mono/color	PYTHON 5000	GigE	•	•	•			
MED ace 6.4 MP 59 mono/color	IMX178	USB 3.0	•	•	•	•		
MED ace 8.9 MP 32 mono/color	IMX267	USB 3.0	•	•	•			
MED ace 8.9 MP 42 mono/color	IMX255	USB 3.0	•	•	•		•	
MED ace 12.3 MP 23 mono/color	IMX304	USB 3.0	•	•	•			
MED ace 12.3 MP 30 mono/color	IMX253	USB 3.0	•	•	•		•	
MED ace 20 MP 17 mono/color	IMX183	USB 3.0	•	•	•	•		

 $^{^{\}mbox{\scriptsize 1}}$ This MED Feature Set is available for color cameras only.

LEARN MORE ABOUT BASLER



About Basler

Basler is a leading international manufacturer of imaging components for computer vision applications such as cameras, lenses, frame grabbers, software, as well as embedded vision solutions, customized products and consulting services. Basler's products are used in a variety of markets and applications, including factory automation, medical, logistics, retail, and robotics.

In the Medical & Life Sciences sector, Basler cameras are used in applications such as microscopy, ophthalmology, and laboratory equipment & automation. The MED ace is Basler's camera series specifically designed to meet the high image processing requirements in Medical & Life Sciences applications. All models include the MED Feature Sets that combine powerful hardware, firmware, and software functions.

The Basler Group employs approximately 1000 people at its headquarters in Ahrensburg, Germany, and other locations in Europe, Asia, and North America. Thanks to the worldwide sales and service organization and cooperation with renowned partners, it offers solutions that fit for customers from a wide range of sectors.

Trust in State-of-the-Art Vision Technology Made in Germany

Our experience makes Basler's equipment the most reliable and trusted industrial vision technology in the market. As a key driver of technology trends and vision standards, we measure our cameras and their components against the highest standards and offer outstanding quality for reproducible pictures and reliable analysis.

We are constantly developing and improving our products. Already today, we install many cameras into Medical & Life Sciences applications. These digital cameras must provide highest image quality and exceptional color reproduction. New advanced image enhancement and color adjustment algorithms enable consistent and repeatable color fidelity, and perfectly reproduce pictures of challenging samples. Thanks to exhaustive quality assurance measures, long-lasting camera life is a given. We also stand for long-term market availability of our cameras, to make your decision worthwhile and satisfying.



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