

# MEDICAL & LIFE SCIENCES



## LET'S REALIZE YOUR VISION

Computer Vision Solutions for Medical & Life Sciences



## MOST PRISTINE & COLORFUL PICTURES

### Outstanding image quality

- Powerful MED Feature Sets integrated in Basler's MED ace
- True colors, clear contrasts, high resolution, fast live images
- Outstanding performance stability due to high quality standards



## CARE-FREE CAMERA LIFE CYCLE

### Comprehensive support and services

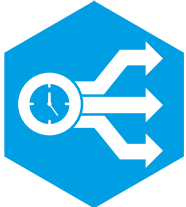
- 3-year warranty on entire camera portfolio
- Ad-hoc service by Basler's technical support
- Point of contact at your site via Basler worldwide network of offices



## PURCHASE DECISION WITH MINIMUM RISK

### Secure future investment

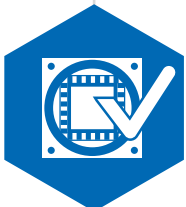
- Long-lasting camera life and reliability through numerous quality assurance measures
- Long-term availability of cameras
- Outstanding ratio of performance to price



## YOUR PARTNER FOR OPTIMUM DESIGN-IN PHASE

### Easy system integration

- Individual consulting and customized products
- Basler support teams located worldwide



## SELECTING YOUR PERFECT CAMERA

### Broad portfolio range

- Over 300 camera models provide cost-efficient and high-end performance also for industrial applications
- Resolutions up to 20 MP, high speed with up to 751 fps
- Monochrome or color variants and near-infrared (NIR) enhanced versions



## DEFINING YOUR SYSTEM REQUIREMENTS

### Supported by experts

- Technology leadership with more than 30 years of vision experience
- Key driver of technology trends and vision standards
- Basler position as most trusted brand in industrial digital cameras

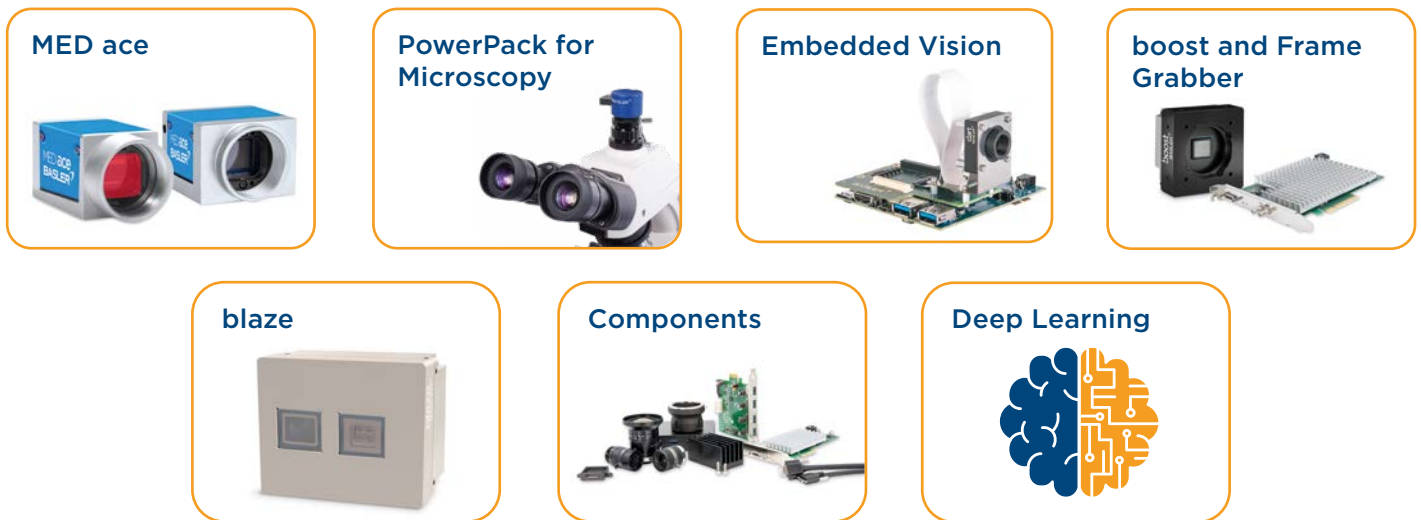
## Let's Realize Your Vision Computer Vision Solutions for Medical & Life Sciences

Basler's computer vision solutions are composed of hardware and software components as well as the development services to assemble the right individual components into a fully consistent system.

The decisive factor for every solution is to gain an understanding of the customer's individual needs. In a constant dialog with the customer and in accordance with the customer requirements, we develop a concept and provide a cost-optimized system. Thanks to our knowledge of the entire imaging pipeline, we ensure an efficient consulting and development process leading all the way to series production and long-term lifecycle management of the customer's system.

Customers benefit from our extensive expertise derived from already-implemented projects, including those in automated microscopy, ophthalmology and medical imaging. Read more at [baslerweb.com/Solutions-for-Medical](http://baslerweb.com/Solutions-for-Medical)

### Product Offering for Medical & Life Sciences



### Sensor Technology Shift: CMOS Now Better Than CCD

The world-leading manufacturer of CCD sensors Sony decided in 2015 to stop producing and investing in this technology, no major new inventions or developments have been made to expand CCD technology. CMOS technology, on the other hand, has experienced heavy investments. It can now match the high quality of CCD sensors and deliver even better image quality.

The following table contains typical CCD sensors which have been integrated into many cameras in the Medical & Life Sciences domain. The specifications show the advantages of the next-generation CMOS sensors offered when choosing one of Basler's MED ace cameras:

Comparison	CCD	CMOS	CCD	CMOS
Camera Model	scout	MED ace 2.3 MP 164 mono	pilot	MED ace 5.1 MP 75 mono
Sensor	Sony ICX285	Sony Pregius	Sony ICX625	Sony Pregius
Resolution	1.4 MP	2.3 MP	5.0 MP	5.0 MP
Pixel Size	6.45 $\mu\text{m}$	5.86 $\mu\text{m}$	3.45 $\mu\text{m}$	3.45 $\mu\text{m}$
Frame Rate	17 fps	164 fps	17 fps	75 fps
Quantum Efficiency	58 %	70 %	47 %	67 %
Temporal Dark Noise	8 $e^-$	7 $e^-$	13 $e^-$	2 $e^-$
Dynamic Range	68 dB	74 dB	55 dB	73 dB

Specifications are subject to change without prior notice. Latest specifications can be found on our website [baslerweb.com/MEDace](http://baslerweb.com/MEDace)

Read more at [baslerweb.com/CMOS-in-Medicine](http://baslerweb.com/CMOS-in-Medicine)

Basler MED ace cameras are our first camera series specifically designed for Medical & Life Sciences and are 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 164fps and 20 MP, pixel sizes up to 5.86µm, low temporal dark noise down to 2e- and sensor sizes up to 1.1 inch.







## Basler pylon Camera Software Suite

The pylon Camera Software Suite is a software packet from and for Basler cameras. This lets you activate your MED ace camera via a Mac, Android device, Windows or Linux PC – quickly and easily.

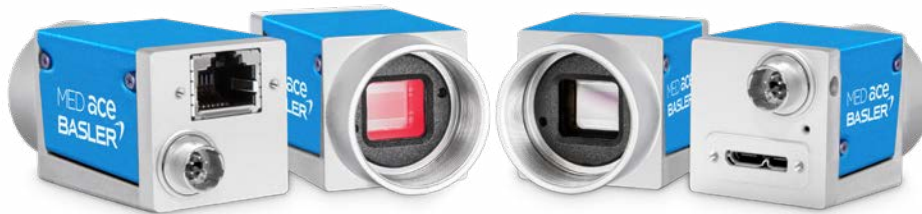


## Basler's Powerful MED Feature Sets

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:

Low Light Imaging 	Brilliant Image 	Dust Protection* 
Perfect Color 	High Speed 	Industrial Excellence 

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



### Overview of MED ace

Sensor Technology	State-of-the-art CMOS sensors
Sensors	Sony Pregius: IMX174, IMX249, IMX250, IMX264, IMX255, IMX267, IMX253, IMX304, IMX183 , IMX178; onsemi: PYTHON 5000
Frame Rate	Up to 164 fps
Resolution	Up to 20 MP
Pixel Size	Up to 5.86µm
Temporal Dark Noise	Down to 2 e <sup>-</sup>
Sensor Sizes	Up to 1.1 inch
Interface	USB 3.0, GigE
Benefits	Including high-performance MED Feature Sets designed for Medical & Life Sciences

Specifications are subject to change without prior notice. Latest specifications can be found on our website.

Read more at [baslerweb.com/MEDace](http://baslerweb.com/MEDace)

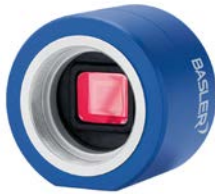
# BASLER POWERPACK FOR MICROSCOPY

The Basler PowerPack for Microscopy is a fully equipped package for image acquisition in microscopy. It consists of a microscopy camera, as well as professional microscopy software, USB 3.0 cable and quick installation guide. The additional video recording software allows capturing of single images, recording of videos or image sequences for time-lapse microscopy.

Thanks to its plug-and-play setup, the PowerPack for Microscopy allows end users a simple system setup and easy installation.

## Basler Microscopy pulse

The Microscopy pulse camera with resolutions between 1.2 MP and 5 MP comes with USB 3.0 as standard interface and USB 2.0 backward compatibility. The camera was specifically designed to be cost-effective and easy to use. High frame rates allow for smooth live viewing, fast focusing and sample screening. The well-established onsemi CMOS sensors offer accurate and reproducible results for a broad range of standard microscopy applications.



## Basler Microscopy ace

The Microscopy ace cameras feature Sony's state-of-the-art IMX CMOS sensors. Thanks to these global shutter sensors, the cameras offer low noise levels down to  $2.2 e^-$ , a large dynamic range of roughly 73dB, and quantum efficiencies over 70%. Similarly, Microscopy ace models with resolutions up to 12.2 MP achieve a new level of image quality. They are the ideal choice for moderate-to-challenging microscopy applications. High frame rates of up to 200 fps allow tracking of fast objects, fast focusing and sample screening even at full resolution.



## Overview of PowerPack for Microscopy

Sensor Technology	Latest CMOS sensors
Frame Rate	Up to 200 fps
Resolution	Up to 12 MP
Pixel Size	Up to 5.86 $\mu\text{m}$
Temporal Dark Noise	Down to $2 e^-$
Sensor Sizes	Up to 1/1.2 inch
Interface	USB 3.0
Benefits	Plug-and-play package for microscopy applications

Specifications are subject to change without prior notice. Latest specifications can be found on our website.

Read more at [baslerweb.com/MicroscopyPowerPack](http://baslerweb.com/MicroscopyPowerPack)

The healthcare and life sciences sector is being deeply transformed by a variety of new requirements and calls for new approaches in technology design. Embedded vision helps medical device manufacturers to achieve the right combination of high-performance, low cost, low power and programmability.

## Current Trends for Medical Device Manufacturers

- Miniaturization: While devices are getting smaller, the demand for reproducibility and accuracy is growing.
- Reduction of costs: Even with growing technical requirements, pressure to control or reduce costs is also rising.
- Point-of-care-testing: Diagnostic devices are evolving towards the patient's home environment, becoming more portable, flexible, and personalized.

These trends make embedded vision an indispensable key technology for the healthcare sector for many years to come. With a broad range of embedded vision products and extensive experience in industrial camera design, we are helping make innovative medical devices more robust, reliable, flexible and cost effective.

### Basler dart

Versatile camera modules for embedded applications



### Embedded Vision Kits

User-friendly evaluation and development kits



Overview of dart	
Sensor Technology	Latest CMOS sensors
Sensors	onsemi: AR0134, AR0521, AR0821, AR1335, MT9P031; Sony Pregius S: IMX548; Sony Pregius: IMX392, IMX287, IMX273; Sony Starvis: IMX334; e2v: EV76C570
Frame Rate	Up to 523 fps
Resolution	Up to 13 MP
Pixel Size	Up to 6.9 μm
Temporal Dark Noise	Down to 2.5 e <sup>-</sup>
Sensor Sizes	Up to 1/1.8 inch
Interface	USB 3.0, BCON for MIPI
Benefits	BCON for MIPI for best price/performance ratio USB 3.0 for easy integration

Specifications are subject to change without prior notice. Latest specifications can be found on our website.

Read more at [baslerweb.com/embedded](https://baslerweb.com/embedded)



# BASLER BOOST AND FRAME GRABBER

The Basler boost camera series combines latest CMOS sensor technology with high bandwidths. Together with the well-tailored frame grabber - namely the CXP-12 interface card for price-sensitive applications and the imaWorx CXP-12 Quad frame grabber for applications with high-performance requirements - we offer perfectly harmonized components.

## The boost Camera and frame grabber for Medical & Life Sciences at a Glance

- CXP-12 camera and matching frame grabber from one source
- CXP-12 interface card that enables a cost-optimized and lean system set up for standard applications
- imaWorx CXP-12 Quad frame grabber for highest flexibility and performance: real-time and high-speed processing also for deep learning-based applications
- Simple installation of camera and frame grabber through GenTL and the pylon Camera Software Suite (SDK)
- Outstanding image quality thanks to Sony Pregius and Sony Pregius S sensors

- CoaXPress 2.0 interface and standardized Micro-BNC (HD-BNC) cable connection

- High transfer speed up to 12.5 Gbps per channel and high resolution up to 45 MP

## Application Example: Surgical Microscopy

The combination of camera and frame grabber is suitable for applications in Medical & Life Sciences where the priorities are high resolutions, fast data rates and low latency periods. Surgical microscopes with an integrated camera are one example. Equipped with the latest Sony Pregius sensors our boost cameras offer excellent image quality and high color fidelity. With a resolution of 4K, the cameras provide images with 60 fps and enable views of the surgical process or the marking of tumors in fluorescence-assisted operations.



Overview of boost	
Sensor Technology	Latest CMOS sensors, global shutter
Sensors	Sony Pregius: IMX253, IMX255; Sony Pregius S: IMX530, IMX531, IMX532; onsemi: XGS 20000, XGS 32000, XGS 45000
Frame Rate	Up to 150 fps
Resolution	Up to 45 MP
Pixel Size	Up to 3.45 $\mu\text{m}$
Temporal Dark Noise	Down to 2 e <sup>-</sup>
Sensor Sizes	Up to Super 35 mm
Interface	CoaXPress 2.0 (CXP-12)
Benefits	Standardized cable connection: Micro-BNC (HD-BNC) Cable lengths of up to 40 m with max. bandwidth Available for C-mount, F-mount and M42-mount lenses

Specifications are subject to change without prior notice. Latest specifications can be found on our website.

Read more at [baslerweb.com/boost](https://baslerweb.com/boost)

The Basler blaze industrial 3D camera operates on the Time-of-Flight (ToF) principle and stands out with high precision for 3D imaging in real time. Its laser diodes (VCSEL) work in the NIR range (940 nm), generating 2D and 3D data in one shot with a multipart image, incorporating range, intensity and confidence maps. Typical applications in Medical & Life Sciences include patient positioning, patient monitoring, biometrics or surgical robots.

## The blaze for Medical & Life Sciences at a Glance

- Outstanding 3D imaging with the latest Sony DepthSense™ IMX556PLR sensor technology
- Precise, millimeter-accurate optical measurement with the time-of-flight method
- Real-time streaming of 3D point clouds and 2D intensity images
- Large measuring range
- IP67 protection
- Light and contrast independent
- Easy system integration thanks to compact design and GigE Vision
- Invisible and eye-safe NIR illumination

## Application Example: Patient Positioning in Radiology

The exact position of the patient has a decisive influence on the quality of an X-ray image. An automatic, almost millimeter-precise positioning enables sharp, exact images, reduces the effort for the medical personnel and minimizes the necessary radiation dose.



### Overview of blaze

Sensor	Sony DepthSense™ IMX556
Frame Rate	30 fps
Resolution	VGA
Interface	GigE
Field of View	60° × 45°
Working Range	0-10 m
Accuracy	<5 mm @ 0.3-6 m; typical
Protection Class	IP67
Illumination Type	940 nm VCSEL

Specifications are subject to change without prior notice. Latest specifications can be found on our website.

Read more at [baslerweb.com/blaze](https://baslerweb.com/blaze)



# BASLER'S VISION COMPONENTS

An image processing system needs more than just a camera. Only a lens, light source, reliable data transfer and additional components such as frame grabbers, trigger cables, PC cards and power supplies turn a vision system into a functioning unit. We offer a large selection of vision components that match each other perfectly.

## Vision Components at a Glance

- Compatible with our MED ace cameras
- Broad and harmonized product portfolio
- Matching, certified and tested vision components
- Long-term availability
- In-house developments or developments in cooperation with other companies
- One-stop shopping
- Professional consulting before and after the buying decision

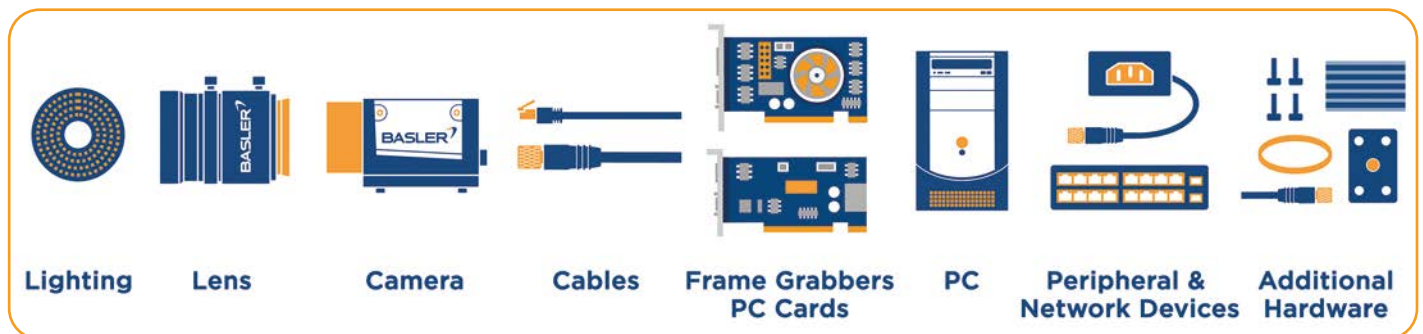
## Need Help Selecting the Right Vision Components for Your Application?

Select compatible components for your vision system with the help of our Vision System Configurator: [baslerweb.com/vision-system-configurator](http://baslerweb.com/vision-system-configurator)

Step by step you can pick cameras, lenses, power and data cables as well as other accessories. We ensure that the selected components fit together.



## Typical set-up of a camera system



Read more at [baslerweb.com/vision-components](http://baslerweb.com/vision-components)



Deep learning is rapidly spreading across Medical & Life Sciences applications and helps for example in pathology detection in microscopy. The benefits of artificial neural networks (ANNs) are twofold. ANNs have the potential to improve the accuracy and robustness for applications. At the same time, ANNs have the capability to solve image-based application problems that could not be solved in the past.

## The Advantages of Deep Learning Compared to Classical Rule-based Algorithms

- Classification of complex images
- Improved accuracy and robustness
- Automatic feature extraction

Our products are well suited for inference of ANNs. We are offering a variety of products to choose from when designing a deep learning vision system.

Best performance, fastest inference per second, highest reliability – if your application demands high throughput, the **FPGA frame grabber-based system** is the right fit for you.

Thanks to our plug-and-play hardware and software components **PC-based systems** score with an easy design-in. Our broad camera portfolio and the pylon Camera Software Suite make it easy to deploy your ANN without spending too much integration effort.

The most compact and cost-effective vision systems can be designed using **embedded vision technology**. The combination of board level cameras and embedded processing units ensures the lowest cost per unit.

### FPGA Frame Grabber-Based Systems

Fastest inference and highest reliability



### PC-Based Systems

Fast time-to-market with lowest integration costs

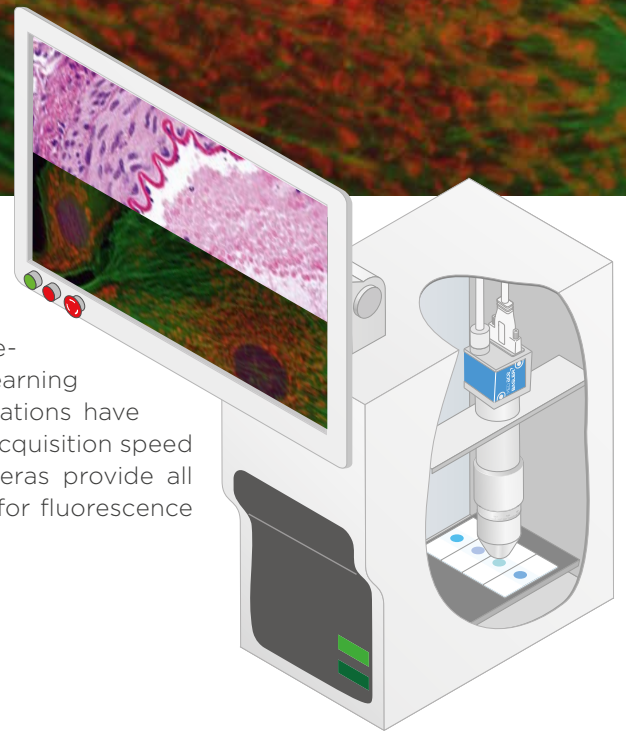


### Embedded Vision Technology

Most compact and cost-effective solutions



Read more at [baslerweb.com/deep-learning](https://baslerweb.com/deep-learning)



## Best Fit for Automated Microscopy

The role of automation in microscopy is increasing rapidly. Involvement of artificial intelligence includes algorithms such as deep learning for automated analysis e.g. in medical diagnostics. These applications have tough demands for digital cameras: excellent image quality, high acquisition speed and a rich set of camera control functions. Our MED ace cameras provide all these requirements under conventional light conditions but also for fluorescence applications.

## RECOMMENDED CAMERAS

### Basler MED ace

- MED ace 2.3 MP 164 mono/color
- MED ace 5.1 MP 75 mono/color
- MED ace 6.4 MP 59 mono/color
- MED ace 12.3 MP 30 mono/color
- MED ace 20 MP 17 mono/color



## BENEFITS

Unique and powerful MED Feature Sets included in Basler's MED ace:



### Brilliant Image

In-camera image optimization such as 5x5 debayering and sharpness enhancement for capturing the most delicate structures; smart auto contrast and quick auto brightness for changing light conditions



### Perfect Color

Fully-controllable true 12-bit color pipeline for true color reproduction in slide scanning applications



### Low Light Imaging

Our innovative long exposure mode for lowest noise, and excellent SNR for low light applications such as in fluorescence



### Dust Protection\*

Meets special cleanliness requirements through the sealing of the sensor room, the separate production of our MED ace in a cleanroom and strict tests of selected components for dust and other particles during assembly

## Basler PowerPack for Microscopy

- Microscopy pulse 5.0 MP color
- Microscopy ace 2.3 MP mono/color



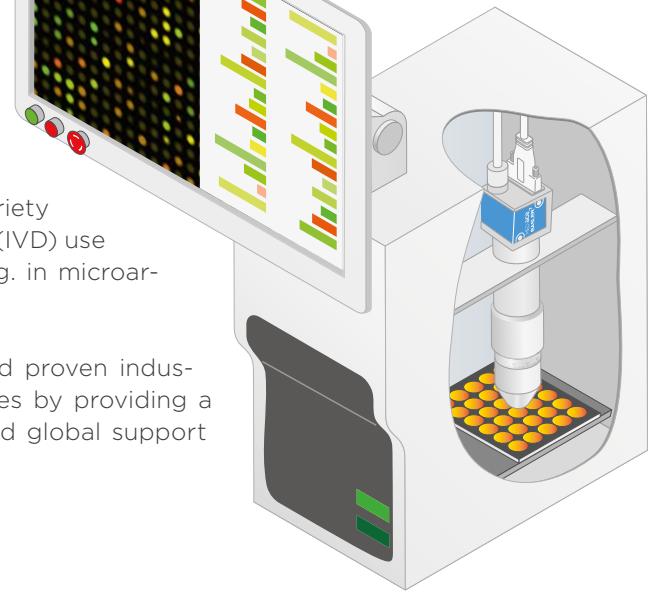
Plug-and-play bundle for a variety of microscopy tasks, which includes:

- Microscopy camera
- Professional microscopy software
- Video recording software
- USB 3.0 cable
- Quick install guide

## Best Fit For Your Molecular Diagnostic Instrumentation

CMOS cameras are integrated into high-sensitivity detection modules used for analysis of proteins and nucleic acids in a variety of biological samples. Modern analyzers for in-vitro diagnostics (IVD) use highly-sensitive and fluorescence-based detection methods e.g. in microarrays or microfluidic systems.

We provide long-lasting products of the highest reliability and proven industrial-grade quality. Additionally, we offer short integration times by providing a user-friendly software development kit (SDK). Our experienced global support ensures fastest time-to-market for your upcoming products.



## RECOMMENDED CAMERAS

### Basler MED ace

- MED ace 2.3 MP 164 mono/color
- MED ace 5.1 MP 75 mono/color
- MED ace 6.4 MP 59 mono / color
- MED ace 12.3 MP 30 mono / color
- MED ace 20.0 MP 17 mono / color



## BENEFITS

Unique and powerful MED Feature Sets included in Basler's MED ace:



### Low Light Imaging

High sensitivity, low dark noise, as well as our unique long exposure mode for applications with difficult light conditions and weak signals



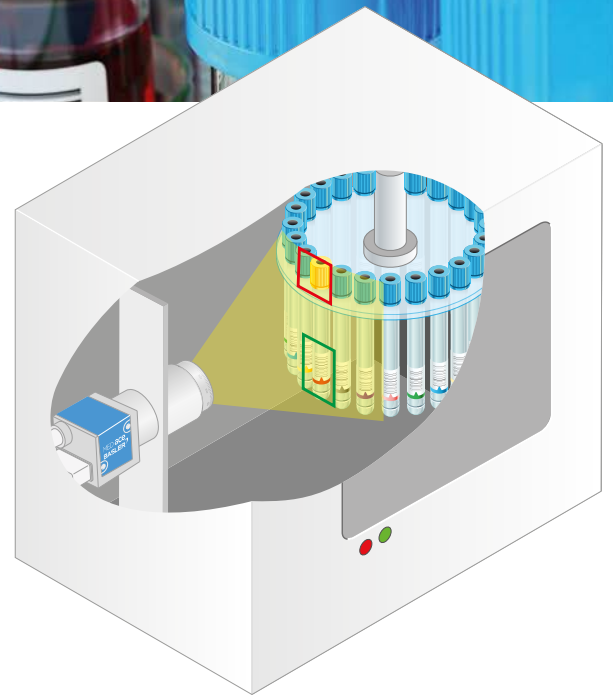
### Industrial Excellence

Optimized design together with exceptional price/performance ratio for highest flexibility in use; state-of-the-art USB3 Vision interface for standardized, easy, robust integration



## Best Fit for Process Automation

Trust in your results – our cameras identify samples and labware by reading matrix codes and are used for internal quality control. They provide flexibility in use and easy integration in countless lab instrumentation products. In combination with an optimized design and small form factor, our cameras grant high speed and resolution, reliability, accuracy and image quality with an exceptional price/performance ratio.



## RECOMMENDED CAMERAS

### Basler MED ace

- MED ace 2.3 MP 164 mono/color
- MED ace 5.3 MP 20 mono/color
- MED ace 6.4 MP 59 mono / color



## BENEFITS

Unique and powerful MED Feature Sets included in Basler’s MED ace:



### Brilliant Image

Outstanding image out-of-the-box; sharp contrasts for reliable and quick barcode reading



### High Speed

Fast and yet highly reliable cameras; high frame rates and global shutter sensors for fast image acquisition and maximum throughput



### Industrial Excellence

User-optimized, one-for-all SDK ensures fast integration of new camera models and gives access to all camera features thanks to GenICam technology

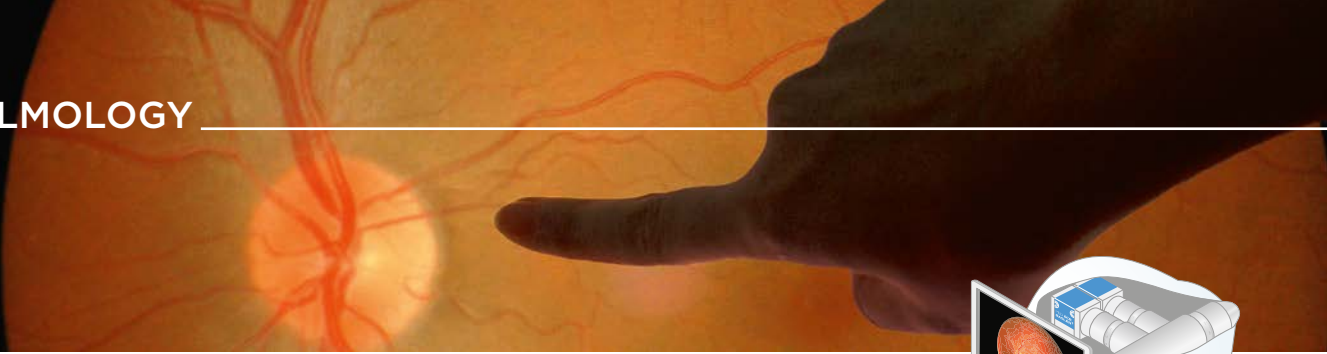
### Basler dart

- daA1920-160uc with USB3 Vision Interface
- daA2500-60mc with BCON for MIPI



Perfectly meets the requirements in process automation:

- small form factor of 27 mm × 27 mm
- weight of only 5 g
- variety of mount options
- different interfaces such as USB 3.0 for ease of integration and BCON for MIPI for best price/performance ratio



## Best Fit for Your Ophthalmology Instrumentation

Many diagnostic devices in modern ophthalmology already benefit from vision technology. Applications require superior image quality for visualization of the smallest vessel structures, as well as configurable color pipelines for the camera. We offer a wide range of MED ace cameras that are suitable for various applications such as fundus imaging using a fundus or OCT (optical coherence tomography) camera.

For cameras in ophthalmology, highly reliable color rendering as well as the reproducibility of the images is particularly important. Our patented 6 Axis Operator and Color Calibrator Tool adjust settings for hue, saturation, brightness and contrast for full control of color space.



## RECOMMENDED CAMERAS

### Basler MED ace

- MED ace 5.1 MP 35 color
- MED ace 5.1 MP 75 color
- MED ace 6.4 MP 59 color
- MED ace 12.3 MP 23 color
- MED ace 12.3 MP 30 color
- MED ace 20.0 MP 17 color



## BENEFITS

Unique and powerful MED Feature Sets included in Basler's MED ace:



### Brilliant Image

Sharp contrasts for visualization of the smallest vessel structures; easy-to-use auto functions for an outstanding image right out-of-the-box



### Perfect Color

Our patented 6 Axis Operator for high color fidelity and excellent color reproduction supports the precise examination of eye compartments like the fundus; easy color calibration minimizes color errors

### Basler dart

- daA1280-54uc with USB3 Vision Interface
- daA1280-54um with USB3 Vision Interface



Perfectly meets the requirements in ophthalmology:

- small form factor of 27 mm × 27 mm
- weight of only 5g
- variety of mount options
- USB 3.0 for ease of integration

# SURGICAL IMAGING



## Best Fit for Your Surgical Imaging Needs

Do not compromise in surgical environments - rely on MED ace cameras for light microscopic/stereoscopic visualization, fluorescence-based intraoperative visualization, minimally invasive, computer- and robot-assisted surgery, or intraoperative navigation.

Dependably high resolution up to 4K, plus pin-sharp images with high contrast and exact color fidelity guarantee the precise representation of the most complex and finest anatomical structures in realtime. The increasing trend of digitization makes critical components like cameras a must to achieve the required performance for intraoperative observation, image analysis or simulation.



## RECOMMENDED CAMERAS

### Basler MED ace

- MED ace 5.1 MP 75 mono/color
- MED ace 8.9 MP 42 color
- MED ace 12.3 MP 30 color



## BENEFITS

Unique and powerful MED Feature Sets included in Basler's MED ace:



### Brilliant Image

Supreme image out-of-the-box for precise representation of the most complex and the finest anatomical structures; fast auto functions for quickly changing light conditions



### Perfect Color

Precise color fidelity during surgical interventions due to our configurable color pipeline; easy color calibration in less than one minute based on commonly used reference chart minimizes color errors



## 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.



Find our White Papers, Customer Stories and more valuable information on:  
[baslerweb.com/medical](https://baslerweb.com/medical)



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