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Basler ace Series

Small, affordable and highly productive

High quality and performance, low list prices from 199 € and small cases with 29 mm x 29 mm as well as 30 x 40 mm footprints: This combination makes the ace one of the top-selling cameras, with thousands of satisfied customers. With more than 130 models, the ace series is the largest camera series on the industrial image processing market.

The Basler ace cameras are available with various resolutions and speeds as well as a range of interfaces and sensors from all leading manufacturers.

Combined with the extensive features, this versatility makes the ace – in all of its variants – the perfect choice for a large number of Vision applications.

For a clearer selection of the various ace models and a better distinction of their features, the series is divided into three product lines: ace Classic, ace U and ace L.

The advantages of the Basler ace family include:

- More than 130 models featuring resolutions from VGA to 20 MP and frame rates of up to 751 fps
- Broad sensor portfolio: CCD, CMOS and NIR variants
- Interfaces: USB 3.0, GigE and Camera Link
- Single cable solutions: Gigabit Ethernet with PoE, Camera Link with PoCL, USB 3.0
- I/O flexibility with minimum latency and jitter times for top precision in your applications
- Extensive firmware features
- Outstanding price/performance ratio
- Highest stability and flexibility thanks to USB3 Vision, GigE Vision and Camera Link standards
- Easy integration thanks to the pylon Camera Software Suite from Basler

Select Basler ace in Configurator

The ace product lines – ace Classic, ace U and ace L



ace Classic

The first ace models marked a breakthrough of the 29 mm x 29 mm footprint familiar from the analog world. By now this "sugar cube" format has firmly established itself and can be found in all ace Classic and ace U models.

The highlights of the ace Classic at a glance:

- Comprehensive sensor portfolio including CMOS sensors from ams, e2V and onsemi (MT series) as well as CCD sensors from Sony
- Broad interface selection: GigE, USB 3.0, CameraLink
- Excellent price/performance ratio

Go to the ace Classic models

ace U

With the introduction of the unique PGI Feature Set from Basler and with new CMOS sensors, the ace series took the next evolutionary step in the areas of firmware features and sensor technology. With this technical differentiation the "new ace" was

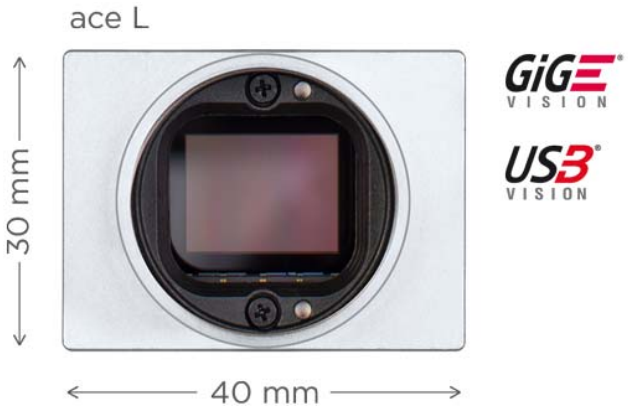
born. These models form the ace U and ace L product lines.

The highlights of the ace U at a glance:

- Features the latest CMOS sensor technology:
  Sony Pregius: IMX174, IMX249, IMX250, IMX252, IMX264, IMX265, IMX273, IMX287
  Sony STARVIS: IMX178, IMX226
  Sony Exmor R: IMX183
  onsemi: PYTHON 300, PYTHON 500, PYTHON 1300, PYTHON 2000, PYTHON 5000
- Includes high value-add features (e.g. PGI)
- Fast speeds of up to 751 fps
- GigE Vision 2.0 and USB3 Vision compliant

Go to the ace U models





ace L

The ace L profits from the same evolutionary steps in firmware features as the ace U. Furthermore, it is capable of carrying high-resolution 9 and 12 MP Sony Pregius CMOS sensors with optical formats above 1". To accommodate these larger sensors, the camera housing is slightly larger than other ace models and has a footprint of 40 mm x 30 mm.

The highlights of the ace L at a glance:

- Large 9 and 12 MP Sony Pregius CMOS sensors up to 1.1": IMX253, IMX255, IMX267, IMX304
- Brilliant image quality at speeds of up to 40 fps
- Includes high value-add features (e.g. PGI)
- GigE Vision 2.0 and USB3 Vision compliant

Go to the ace L models

Models | Accessories | Documents | Software

Reset filters

Camera Model	Resolution (HxV)	Resolution	Sensor	Frame Rate	Mono/Color	Interface	Availability
acA640-90gc	658 px x 492 px	VGA	ICX424	90 fps	Color	GigE	✓
acA640-90uc	658 px x 492 px	VGA	ICX424	90 fps	Color	USB 3.0	✓
acA640-90gc (CS-Mount)	658 px x 492 px	VGA	ICX424	90 fps	Color	GigE	✓
acA640-90uc (CS-Mount)	658 px x 492 px	VGA	ICX424	90 fps	Color	USB 3.0	✓
acA640-120gc	658 px x 492 px	VGA	ICX618	120 fps	Color	GigE	Discontinuation: November 2021

Camera Model	Resolution (HxV)	Resolution	Sensor	Frame Rate	Mono/Color	Interface	Availability
acA640-120uc	658 px x 492 px	VGA	ICX618	120 fps	Color	USB 3.0	Discontinuation: November 2021
acA640-120gc (CS-Mount)	658 px x 492 px	VGA	ICX618	120 fps	Color	GigE	Discontinuation: November 2021
acA640-120uc (CS-Mount)	658 px x 492 px	VGA	ICX618	120 fps	Color	USB 3.0	Discontinuation: November 2021
acA640-90gm	659 px x 494 px	VGA	ICX424	90 fps	Mono	GigE	Discontinuation: LTB 03/2022
acA640-90um	659 px x 494 px	VGA	ICX424	90 fps	Mono	USB 3.0	Discontinuation: LTB 03/2022
acA640-90gm (CS-Mount)	659 px x 494 px	VGA	ICX424	90 fps	Mono	GigE	Discontinuation: LTB 03/2022
acA1280-60gc	1280 px x 1024 px	1.3 MP	EV76C560	60 fps	Color	GigE	✓ Extended lead time up to 6 months
acA1300-60gc	1280 px x 1024 px	1.3 MP	EV76C560	60 fps	Color	GigE	✓ Extended lead time up to 6 months
acA1300-60gmNIR	1280 px x 1024 px	1.3 MP	EV76C661	60 fps	Mono	GigE	✓ Extended lead time up to 6 months
acA1300-60gmNIR (CS-Mount)	1280 px x 1024 px	1.3 MP	EV76C661	60 fps	Mono	GigE	✓ Extended lead time up to 6 months
acA1300-60gc (CS-Mount)	1280 px x 1024 px	1.3 MP	EV76C560	60 fps	Color	GigE	✓ Extended lead time up to 6 months
acA1280-60gm	1282 px x 1026 px	1.3 MP	EV76C560	60 fps	Mono	GigE	✓ Extended lead time up to 6 months
acA1300-60gm	1282 px x 1026 px	1.3 MP	EV76C560	60 fps	Mono	GigE	✓ Extended lead time up to 6 months
acA1300-60gm (CS-Mount)	1282 px x 1026 px	1.3 MP	EV76C560	60 fps	Mono	GigE	✓ Extended lead time up to 6 months
acA1300-22gc (CS-Mount)	1294 px x 964 px	1.3 MP	ICX445	22 fps	Color	GigE	Discontinuation: LTB 03/2022
acA1300-30gc	1294 px x 964 px	1.3 MP	ICX445	30 fps	Color	GigE	Discontinuation: LTB 03/2022
acA1300-30uc	1294 px x 964 px	1.3 MP	ICX445	30 fps	Color	USB 3.0	Discontinuation: LTB 03/2022
acA1300-30gc (CS-Mount)	1294 px x 964 px	1.3 MP	ICX445	30 fps	Color	GigE	Discontinuation: LTB 03/2022
acA1300-22gm (CS-Mount)	1296 px x 966 px	1.3 MP	ICX445	22 fps	Mono	GigE	Discontinuation: LTB 03/2022
acA1300-30gm	1296 px x 966 px	1.3 MP	ICX445	30 fps	Mono	GigE	Discontinuation: LTB 03/2022
acA1300-30um	1296 px x 966 px	1.3 MP	ICX445	30 fps	Mono	USB 3.0	Discontinuation: LTB 03/2022
acA1300-30gm (CS-Mount)	1296 px x 966 px	1.3 MP	ICX445	30 fps	Mono	GigE	Discontinuation: LTB 03/2022
acA1600-60gc	1600 px x 1200 px	2 MP	EV76C570	60 fps	Color	GigE	✓ Extended lead time up to 6 months
acA1600-60gc (CS-Mount)	1600 px x 1200 px	2 MP	EV76C570	60 fps	Color	GigE	✓ Extended lead time up to 6 months

Camera Model	Resolution (HxV)	Resolution	Sensor	Frame Rate	Mono/Color	Interface	Availability
acA1600-60gm	1602 px x 1202 px	2 MP	EV76C570	60 fps	Mono	GigE	✓ Extended lead time up to 3 months
acA1600-20gc	1624 px x 1234 px	2 MP	ICX274	20 fps	Color	GigE	✓
acA1600-20uc	1626 px x 1234 px	2 MP	ICX274	20 fps	Color	USB 3.0	✓
acA1600-20gm	1626 px x 1236 px	2 MP	ICX274	20 fps	Mono	GigE	Discontinuation: LTB 03/2022
acA1600-20um	1626 px x 1236 px	2 MP	ICX274	20 fps	Mono	USB 3.0	Discontinuation: LTB 03/2022
acA1600-20gm (CS-Mount)	1626 px x 1236 px	2 MP	ICX274	20 fps	Mono	GigE	Discontinuation: LTB 03/2022
acA1600-20um (CS-Mount)	1626 px x 1236 px	2 MP	ICX274	20 fps	Mono	USB 3.0	Discontinuation: LTB 03/2022
acA1920-25gc	1920 px x 1080 px	2 MP	MT9P031	25 fps	Color	GigE	✓ For information about shipping please use the request cart.
acA1920-25gm	1920 px x 1080 px	2 MP	MT9P031	25 fps	Mono	GigE	✓ For information about shipping please use the request cart.
acA1920-25gc (CS-Mount)	1920 px x 1080 px	2 MP	MT9P031	25 fps	Color	GigE	✓ For information about shipping please use the request cart.
acA1920-25uc	1920 px x 1080 px	2 MP	MT9P031	26 fps	Color	USB 3.0	✓ For information about shipping please use the request cart.
acA1920-25um	1920 px x 1080 px	2 MP	MT9P031	26 fps	Mono	USB 3.0	✓ For information about shipping please use the request cart.
acA2000-165uc	2040 px x 1086 px	2 MP	CMV2000	165 fps	Color	USB 3.0	✓
acA2040-90uc	2040 px x 2046 px	4 MP	CMV4000	90 fps	Color	USB 3.0	✓
acA2000-50gc	2046 px x 1086 px	2 MP	CMV2000	50 fps	Color	GigE	✓
acA2000-50gc (CS-Mount)	2046 px x 1086 px	2 MP	CMV2000	50 fps	Color	GigE	✓
acA2000-340kc	2046 px x 1086 px	2 MP	CMV2000	340 fps	Color	Camera Link	✓ Extended lead time up to 3 months
acA2040-25gc	2046 px x 2046 px	4 MP	CMV4000	25 fps	Color	GigE	✓
acA2040-180kc	2046 px x 2046 px	4 MP	CMV4000	180 fps	Color	Camera Link	✓ Extended lead time up to 3 months

Camera Model	Resolution (HxV)	Resolution	Sensor	Frame Rate	Mono/Color	Interface	Availability
acA2000-50gm	2048 px x 1088 px	2 MP	CMV2000	50 fps	Mono	GigE	✓
acA2000-50gmNIR	2048 px x 1088 px	2 MP	CMV2000 NIR-enhanced	50 fps	Mono	GigE	✓
acA2000-165um	2048 px x 1088 px	2 MP	CMV2000	165 fps	Mono	USB 3.0	✓
acA2000-165umNIR	2048 px x 1088 px	2 MP	CMV2000 NIR-enhanced	165 fps	Mono	USB 3.0	✓
acA2000-340km	2048 px x 1088 px	2 MP	CMV2000	340 fps	Mono	Camera Link	✓ For information about shipping please use the request cart.
acA2000-340kmNIR	2048 px x 1088 px	2 MP	CMV2000 NIR-enhanced	340 fps	Mono	Camera Link	✓ For information about shipping please use the request cart.
acA2040-25gm	2048 px x 2048 px	4 MP	CMV4000	25 fps	Mono	GigE	✓
acA2040-25gmNIR	2048 px x 2048 px	4 MP	CMV4000 NIR-enhanced	25 fps	Mono	GigE	✓
acA2040-90um	2048 px x 2048 px	4 MP	CMV4000	90 fps	Mono	USB 3.0	✓
acA2040-90umNIR	2048 px x 2048 px	4 MP	CMV4000 NIR-enhanced	90 fps	Mono	USB 3.0	✓
acA2040-180km	2048 px x 2048 px	4 MP	CMV4000	180 fps	Mono	Camera Link	✓ For information about shipping please use the request cart.
acA2040-180kmNIR	2048 px x 2048 px	4 MP	CMV4000 NIR-enhanced	180 fps	Mono	Camera Link	✓ For information about shipping please use the request cart.
acA2500-14gc	2590 px x 1942 px	5 MP	MT9P031	14 fps	Color	GigE	✓ For information about shipping please use the request cart.
acA2500-14uc	2590 px x 1942 px	5 MP	MT9P031	14 fps	Color	USB 3.0	✓ For information about shipping please use the request cart.
acA2500-14gc (CS-Mount)	2590 px x 1942 px	5 MP	MT9P031	14 fps	Color	GigE	✓ For information about shipping please use the request cart.
acA2500-14uc (CS-Mount)	2590 px x 1942 px	5 MP	MT9P031	14 fps	Color	USB 3.0	✓ For information about shipping please use the request cart.

Camera Model	Resolution (HxV)	Resolution	Sensor	Frame Rate	Mono/Color	Interface	Availability
acA2500-14gm	2592 px x 1944 px	5 MP	MT9P031	14 fps	Mono	GigE	✓ For information about shipping please use the request cart.
acA2500-14um	2592 px x 1944 px	5 MP	MT9P031	14 fps	Mono	USB 3.0	✓ For information about shipping please use the request cart.
acA2500-14gm (CS-Mount)	2592 px x 1944 px	5 MP	MT9P031	14 fps	Mono	GigE	✓ For information about shipping please use the request cart.
acA2500-14um (CS-Mount)	2592 px x 1944 px	5 MP	MT9P031	14 fps	Mono	USB 3.0	✓ For information about shipping please use the request cart.
acA3800-10gc	3840 px x 2748 px	10 MP	MT9J003	10 fps	Color	GigE	✓ Extended lead time up to 6 months
acA3800-14uc	3840 px x 2748 px	10 MP	MT9J003	14 fps	Color	USB 3.0	✓

How do I start? What's next?

Our guidance tools will help you find the right components for your vision system or application. Whether you are looking for particular component specifications or a complete system for your application, our guidance tools will get you there.

Vision System Configurator

The ace is the right product for you? Find the appropriate components and use them to create your vision system.

Use Vision System Configurator

Vision Solution Guide (Beta)

Not sure if the ace is the right camera for you? Our tool shows you the right system for your requirements.

Use Vision Solution Guide

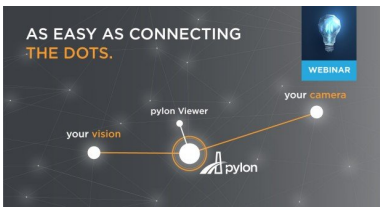
Basler Webinars

Through our webinars series, we are happy to share our knowledge and experience in vision related topics. Learn about new computer vision technologies and industry trends during these insightful free webinars. Register now and watch one of our webinars on demand.

Featured On Demand - We have carefully selected on-demand webinars that relate to our ace camera series.



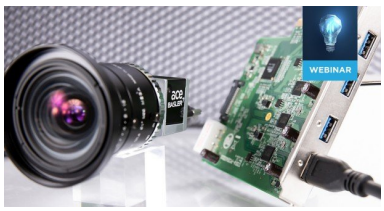
Really Know Your Tools: How Can In-camera Features Optimize the Design of Your Vision System



How to Make the Best of Basler's Cameras and Software in a Nutshell - Getting Started with pylon Viewer



Unlock Next-Level In-Camera Features That Magnify Your Image Performance



How to Select the Right Hardware Components for Your Vision System

This webinar guides you through some useful camera functions for demanding applications and explains how these in-camera features will optimize your vision system without extra costs.

Watch the webinar

In this webinar, we give you the details about image acquisition from a software perspective and also cover the basics about pylon Viewer through a live demonstration.

Watch the webinar

Are you using your camera to its fullest potential? Discover advanced in-camera features that will optimize the performance of your vision system. Good news: No additional hardware purchase or programming is required.

Watch the webinar

This webinar will give you advice on how to design a vision system and what to consider for each hardware category while choosing specific components.

Watch the webinar

Ready for the next generation?

Discover our ace 2 camera series including two product lines: ace 2 Basic for standard vision requirements and ace 2 Pro with unique features such as Compression Beyond, PIxel Beyond and PGI for maximum performance.



Basler ace 2 Basic

Latest CMOS sensors from Sony, optimized hardware, powerful firmware, top price/performance ratio for standard vision applications

USB 3.0, GigE



Basler ace 2 Pro

Unique In-Cameras Features: Compression Beyond, Pixel Beyond and PGI feature set for maximum performance

USB 3.0, GigE

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