

## acA640-750um - Basler ace

The Basler acA640-750um USB 3.0 camera with the ON Semiconductor PYTHON 300 CMOS sensor delivers 751 frames per second at VGA resolution.



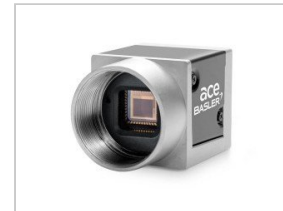
Number

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Specifications [Features](#)  
General Information

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[Software](#)

[Dimensions](#)

Order Number

106748

## General Information

Product Line	ace U
List Price	335.00 EUR
For larger quantities and individual prices, please use the request cart.	
Delivery time	approx. 189 calendar days
Delivery times may vary. Please ask for the current availability and use the request cart.	
Destination	<input type="text" value="Iran, Islamic Republic of Iran"/>

## Sensor

Sensor Vendor	ON Semiconductor
Sensor	PYTHON 300
Shutter	Global Shutter
Sensor Format	1/4
Sensor Type	CMOS
Sensor Size	3.1 mm x 2.3 mm
Resolution (HxV)	640 px x 480 px
Resolution	VGA
Pixel Size (H x V)	4.8 $\mu\text{m}$ x 4.8 $\mu\text{m}$
Frame Rate	751 fps
Mono/Color	Mono

## EMVA Data

## EMVA Data

EMVA Quantum Efficiency (typical)	52.0 %
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Dark Noise (typical)	10.5 e <sup>-</sup>
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Saturation Capacity (typical)	7.1 ke <sup>-</sup>
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Dynamic Range (typical)	56.6 dB
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Signal-to-Noise Ratio (typical)	38.5 dB
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## Camera Data

Interface	USB 3.0
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Pixel Bit Depth	10 bits
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Synchronization	<ul style="list-style-type: none"><li>▪ software trigger</li><li>▪ hardware trigger</li><li>▪ free-run</li></ul>
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Exposure Control	<ul style="list-style-type: none"><li>▪ programmable via the camera API</li><li>▪ hardware trigger</li></ul>
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Digital Input	1
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Digital Output	1
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General Purpose I/O	2
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Power Supply	<ul style="list-style-type: none"><li>▪ Via USB 3.0 interface</li></ul>
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Power Requirements (typical)	3 W
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## Housing

Housing Type	Box
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## Housing

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Housing Size (L x W x H)	29.3 mm x 29 mm x 29 mm
Lens Mount	▪ C-mount
Operating Temperature	0 - 50°C
Weight (typical)	80g

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## Conformity

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Conformity	<ul style="list-style-type: none"><li>▪ CE</li><li>▪ RoHS</li><li>▪ IP30</li><li>▪ FCC</li><li>▪ USB3 Vision</li><li>▪ GenICam</li><li>▪ UL</li><li>▪ KC</li><li>▪ EAC</li></ul>
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## Information

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