

daA2500-14uc - Basler dart

The Basler daA2500-14uc USB 3.0 camera with the ON Semiconductor MT9P031 CMOS sensor delivers 14 frames per second at 5 MP resolution.



Number

1

+

-

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Specifications

General Information

Order Number	No-mount: 106695 / CS-Mount: 106696 / S-Mount: 106697
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Sensor

Sensor Vendor	ON Semiconductor
Sensor	MT9P031
Shutter	Rolling Shutter
Max. Image Circle	1/2.5"
Sensor Type	CMOS
Sensor Size	5.7 mm x 4.3 mm
Resolution (HxV)	2592 px x 1944 px
Resolution	5 MP
Pixel Size (H x V)	2.2 µm x 2.2 µm
Frame Rate	14 fps
Mono/Color	Color

Camera Data

Interface	USB 3.0
Pixel Bit Depth	8, 12 bits
Synchronization	<div><div>■</div> hardware trigger</div> <div><div>■</div> free-run</div> <div><div>■</div> software trigger</div>
Exposure Control	<div><div>■</div> programmable via the camera API</div> <div><div>■</div> hardware trigger</div>

Camera Data

Digital Input	1
Digital Output	2
General Purpose I/O	2
Power Requirements	<ul style="list-style-type: none">Via USB 3.0 interface
Power Consumption (typical)	1.3 W

Housing

Housing Type	Board Level
Housing Size (L x W x H)	2.7 mm x 27 mm x 27 mm
Lens Mount	<ul style="list-style-type: none">CS-mountS-mountnone
Housing Temperature	0 - 50°C
Weight (typical)	15g

Conformity

Conformity	<ul style="list-style-type: none">CERoHSGenICamULUSB3 VisionFCC
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Features

Features

Click on a feature to open the corresponding topic in the **Basler Product Documentation**.

Color Creation and Enhancement	<ul style="list-style-type: none">Auto Function Profile: Anti-FlickerBacklight CompensationBalance White (Manual White Balance)Balance White Auto (Automatic White Balance)Contrast EnhancementHue/SaturationLight Source PresetsS-Curve Contrast ModesRGB Gamma Correction
I/O Control and Line Source Signals	<ul style="list-style-type: none">Acquisition Trigger Wait / Frame Burst Trigger WaitDebouncerExposure ActiveFlash WindowFrame Trigger WaitMinimum Output Pulse WidthTimer ActiveUser Output
Image Acquisition Control	<ul style="list-style-type: none">Acquisition StatusFrame Start TriggerTriggered by HardwareTriggered by Software
Miscellaneous	<ul style="list-style-type: none">Device Information ParametersUser Defined Values

Features

Click on a feature to open the corresponding topic in the Basler Product Documentation.

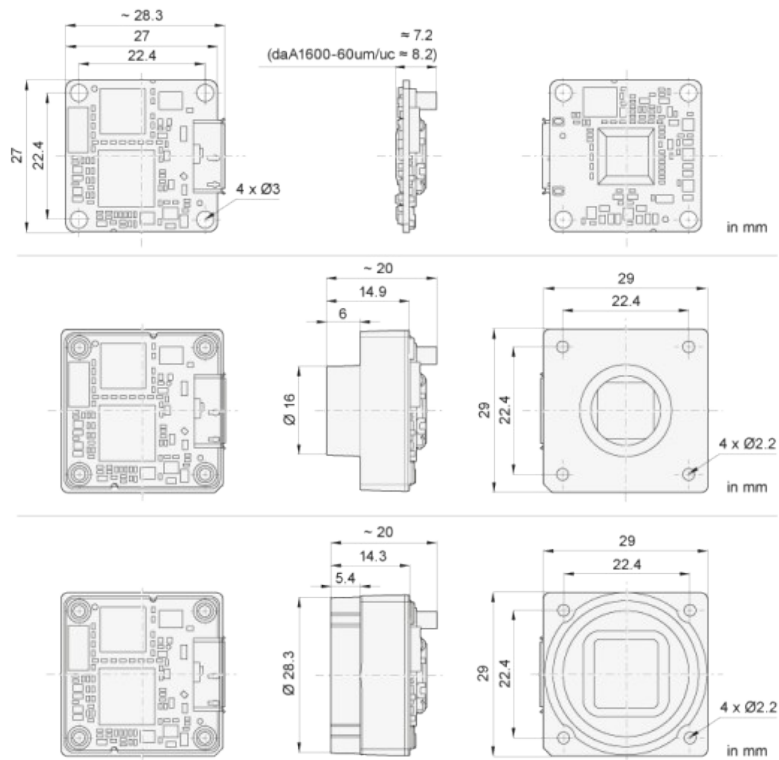
	<ul style="list-style-type: none">User Sets (Configuration Sets)
PGI	<ul style="list-style-type: none">5x5 DebayeringColor-Anti-AliasingDenoisingImproved Sharpness
Pixel Formats	<ul style="list-style-type: none">Bayer 12Bayer 8RGB 8YCbCr422_8 (YUV422_8)
Standard Features	<ul style="list-style-type: none">Auto Function ProfileBinning HorizontalBinning VerticalBlack LevelExposure AutoExposure Mode: Timed (Control via API)Exposure Mode: Trigger Width (Control via External Trigger)GainGain AutoGamma CorrectionRegion of Interest (ROI)Reverse X (Horizontal Mirroring)Reverse Y (Vertical Mirroring)Test Images

Dimensions

Mechanical drawing for daA2500-14uc

Mechanical drawings provide the detailed measurements of a camera product. Click on the link below to download the mechanical drawing for daA2500-14uc.

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