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.

| USB3 VISION | PGI | ◐ |

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Specifications

General Information

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

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	▪ hardware trigger ▪ free-run ▪ software trigger
	Exposure Control	▪ programmable via the camera API ▪ hardware trigger

Camera Data

Digital Input	1	
Digital Output	2	
General Purpose I/O	2	
Power Requirements	■ 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	■ CS-mount ■ S-mount ■ none
Housing Temperature	0 - 50°C
Weight (typical)	15g

Conformity

Conformity	■ CE ■ RoHS ■ GenICam ■ UL ■ USB3 Vision ■ FCC

Features

Features

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

Color Creation and Enhancement	■ Auto Function Profile: Anti-Flicker ■ Backlight Compensation ■ Balance White (Manual White Balance) ■ Balance White Auto (Automatic White Balance) ■ Contrast Enhancement ■ Hue/Saturation ■ Light Source Presets ■ S-Curve Contrast Mode ■ sRGB Gamma Correction
I/O Control and Line Source Signals	■ Acquisition Trigger Wait / Frame Burst Trigger Wait ■ Debouncer ■ Exposure Active ■ Flash Window ■ Frame Trigger Wait ■ Minimum Output Pulse Width ■ Timer Active ■ User Output
Image Acquisition Control	■ Acquisition Status ■ Frame Start Trigger ■ Triggered by Hardware ■ Triggered by Software
Miscellaneous	■ Device Information Parameters ■ User Defined Values

Features

Click on a feature to open the corresponding topic in the Basler Product Documentation.
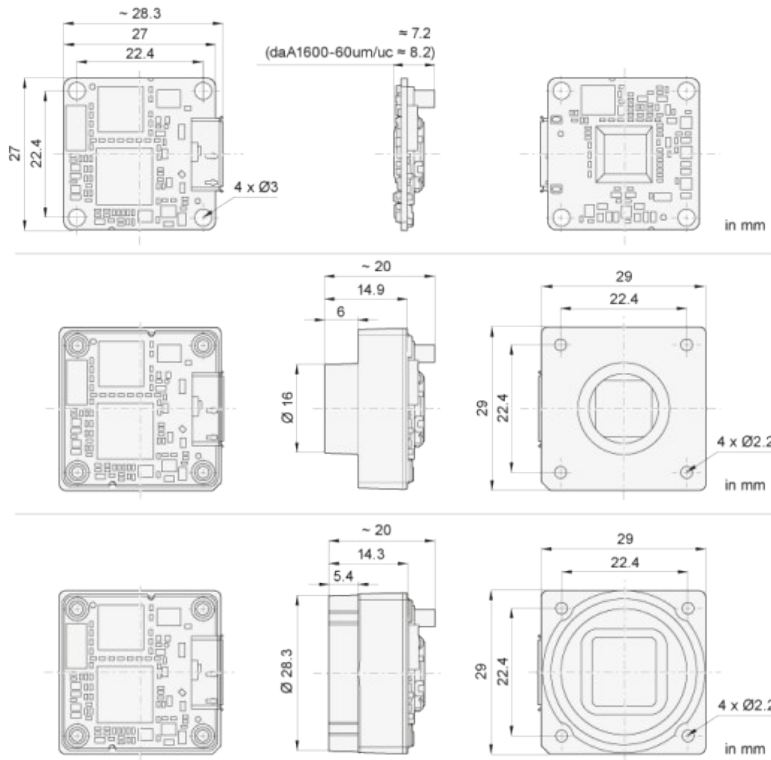
	▪ User Sets (Configuration Sets)
PGI	▪ 5x5 Debayering
	▪ Color-Anti-Aliasing
	▪ Denoising
	▪ Improved Sharpness
Pixel Formats	▪ Bayer 12
	▪ Bayer 8
	▪ RGB 8
	▪ YCbCr422_8 (YUV422_8)
Standard Features	▪ Auto Function Profile
	▪ Binning Horizontal
	▪ Binning Vertical
	▪ Black Level
	▪ Exposure Auto
	▪ Exposure Mode: Timed (Control via API)
	▪ Exposure Mode: Trigger Width (Control via External Trigger)
	▪ Gain
	▪ Gain Auto
	▪ Gamma Correction
	▪ Region 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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in mm