

# BASLER ACE ACA4024-8GM



<b>Sensor Vendor</b>	Sony
<b>Sensor</b>	IMX226
<b>Shutter</b>	Rolling Shutter
<b>Max. Image Circle</b>	1/1.7"
<b>Sensor Type</b>	CMOS
<b>Sensor Size</b>	7.4mm x 5.6mm
<b>Resolution (H x V)</b>	4024px x 3036px
<b>Resolution</b>	12MP
<b>Pixel Size (H x V)</b>	1.85 $\mu\text{m}$ x 1.85 $\mu\text{m}$
<b>Frame Rate</b>	8 fps
<b>Mono/Color</b>	Mono

<b>Interface</b>	GigE
<b>Video Output Format</b>	<ul style="list-style-type: none"> <li>• Mono 12 Packed</li> <li>• Mono 12</li> <li>• Mono 8</li> </ul>
<b>Pixel Bit Depth</b>	10 or 12 bits
<b>Synchronization</b>	<ul style="list-style-type: none"> <li>• Software Trigger</li> <li>• Free-run</li> <li>• Hardware Trigger</li> </ul>
<b>Exposure Control</b>	<ul style="list-style-type: none"> <li>• Programmable via the camera API</li> </ul>
<b>Digital Input</b>	1
<b>Digital Output</b>	1
<b>General Purpose I/O</b>	1
<b>Power Requirements</b>	<ul style="list-style-type: none"> <li>• PoE or 12-24 VDC</li> </ul>
<b>Power Consumption (typical)</b>	2.5W
<b>Power Consumption (PoE)</b>	2.9W
<b>Housing Type</b>	Box
<b>Housing Size (L x W x H)</b>	42mm x 29mm x 29mm
<b>Lens Mount</b>	C-mount
<b>Housing Temperature</b>	0 – 50°C
<b>Weight (typical)</b>	90g

## Conformity

- CE
- RoHS
- GenICam
- GigE Vision
- IP30
- FCC
- UL (in preparation)

## Chunks

- CRC Checksum
- Exposure Time
- Frame Counter
- Gain Raw
- Line Status All
- Sequence Set Index
- Timestamp
- Trigger Input Counter

## Color Creation and Enhancement

- sRGB Gamma Correction

## Event Reporting

- Acquisition Start
- Acquisition Start Overtrigger
- Acquisition Start Wait
- Critical Temperature
- Exposure End
- Frame Start
- Frame Start Overtrigger
- Over Temperature

## GigE Vision 2.0

- Action Commands (Synchronous Triggering)
- Precision Time Protocol (IEEE 1588)
- Scheduled Action Commands

## Image Acquisition Control

- Acquisition Start Trigger
- Acquisition Status
- Frame Start Trigger
- Trigger Delay
- Triggered by Hardware
- Triggered by Software

## Miscellaneous

- Device Information Parameters
- Device Temperature
- Remove Parameter Limits
- User Defined Values
- User Sets (Configuration Sets)

## Physical Interface and I/O Control

- Line Source Signals: Acquisition Start Wait
- Line Source Signals: Exposure Active
- Line Source Signals: Flash Window
- Line Source Signals: Frame Start Wait
- Line Source Signals: Sync User Output
- Line Source Signals: Timer Active
- Line Source Signals: User Output

## Pixel Formats

- Mono 12
- Mono 12p (Mono 12 Packed)
- Mono 8
- YCbCr422\_8 (YUV422\_8)

## Standard Features

- Auto Function Profile
- Binning Horizontal
- Binning Vertical
- Black Level
- Digital Shift
- Exposure Auto
- Exposure Mode: Trigger Width (Control via External Trigger)
- Gain
- Gain Auto
- Gamma Correction
- Lookup Table (LUT)
- Region of Interest (ROI)
- Reverse X (Horizontal Mirroring)
- Reverse Y (Vertical Mirroring)
- Sequencer
- Test Images