



### Applications:

- Automotive
- Security & Surveillance
- Mobile
- Smart Home

### Features:

- High Sensitivity
- High Signal to Noise Ratio
- Low power Consumption

#### Automatic Controls:

- Automatic Black Level (ABLC)

#### Image Quality Controls:

- Bad Pixel Correction

#### Programmable Controls:

- Frame rate and frame size
- Binning Mode
- Manual AEC/AGC/AWB Control
- Two Wire I<sup>2</sup>C Control with Programmable
- Column and row sub-sampling
- Mirror, flip, windowing and cropping
- Multiple camera frame sync
- Embedded Data Line
- On-chip temperature sensor

#### Output formats and Interfaces:

- 10-bit raw MIPI CSI-2 1-lane
- 10-bit raw DVP

#### Other controls:

- Register group access capability

### Key Specifications:

<b>Optical Format</b>		1/3.7-inch.
<b>Active Pixel Array (1080P)</b>		1936H x 1096V
<b>Pixel Size</b>		2.2 µm x 2.2 µm
<b>Color Filter Array</b>		RGB Bayer Pattern
<b>Chief Ray Angle</b>		9 ° Linear
<b>Shutter Type</b>		Electronic Rolling Shutter
<b>Maximum Frame Rate</b>		1080p : 30fps
<b>Power Supply</b>	<b>Analog (AVDD)</b>	3.0 – 3.6V (3.3V nominal)
	<b>I/O</b>	1.7 – AVDD
	<b>DVDD</b>	1.2V
<b>Power Consumption</b>	<b>Active</b>	TBD
	<b>Standby</b>	TBD
<b>Output Formats</b>		10-bit RAW
<b>Operating Temperature</b>		-30°C to 85°C
<b>Storage Temperature</b>		-40°C to 95°C
<b>Die Dimensions (µm<sup>2</sup>)</b>		5,210x 3,640