



Applications:

- Automotive
- Security & Surveillance
- Mobile
- Smart Home

Features:

- High Sensitivity
- High Signal to Noise Ratio

Automatic Controls:

- Automatic Black Level (ABLC)
- Automatic Exposure and Gain Control (AEC/AGC)
- Automatic White Balance (AWB)

Image Quality Controls:

- Bad Pixel Correction
- Lens shading correction

Programmable Controls:

- 2-exposure HDR mode
- Frame rate and frame size
- Binning Mode
- Column and row sub-sampling
- Mirror, flip, windowing and cropping
- Multiple camera frame sync
- Dedicated I²C ID pin select
- Embedded Data Line
- On-chip temperature sensor
- 4 K-bit one-time programmable memory (OTP)
- Ultra-high precision on-chip PLL

Output formats and Interfaces:

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

Other controls:

- Register group access capability

Key Specifications:

Optical Format		1/2.7-inch.
Active Pixel Array (1080P)		1936H x 1096V
Pixel Size		3.0 µm x 3.0 µm
Color Filter Array		RGB Bayer Pattern
Chief Ray Angle		9 ° Linear
Shutter Type		Electronic Rolling Shutter
Maximum Frame Rate		1080P : 60fps 1080P HDR: 30fps
Power Supply	Analog (AVDD)	3.2 – 3.6V (3.3V nominal)
	I/O	1.7 – AVDD
Power Consumption	Active	TBD
	Standby	<1µA
Output Formats		10-bit RAW
Operating Temperature		-30°C to 85°C
Storage Temperature		-40°C to 95°C
Package Dimensions (µm²)		-