



Applications:

- Automotive
- Security & Surveillance
- Mobile
- Smart Home

Features:

- High Sensitivity
- High Signal to Noise Ratio

Automatic Controls:

- Automatic Black Level (ABLC)

Image Quality Controls:

- Bad Pixel Correction

Programmable Controls:

- 2-exposure HDR mode
- Frame rate and frame size
- Binning Mode
- Manual AEC/AGC/AWB Control
- Two Wire I²C Control with Programmable
- Column and row sub-sampling
- Mirror, flip, windowing and cropping
- Multiple camera frame sync
- Embedded Data Line
- On-chip temperature sensor
- 32K-Bit one-time programmable memory (OTP)
- MIPI data type/virtual channel support
- MIPI: 2 lane TX and 1 lane RX (upto 800Mbps/Lane)

Output formats and Interfaces:

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

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)	3.0 – 3.6V (3.3V nominal)
	I/O	1.7 – AVDD
	DVDD	1.2V
Power Consumption	Active	<150mW
	Standby	<7µW
Output Formats		10-bit RAW
Operating Temperature		-30°C to 85°C
Storage Temperature		-40°C to 95°C
Package Dimensions (µm²)		-