

产品概览

AS0140AT: 1/4-Inch CMOS Image Sensor and Signal Processor

欲看完整文档，请参阅数据表。

The ON Semiconductor AS0140AT is a 1.0 MP format digital image sensor and image sensor processor for automotive viewing applications. The device includes full auto-functions support (AWB and AE) and ALTm (Adaptive Local Tone Mapping) to enhance HDR video. The AS0140AT implements a high-sensitivity 3.0 μm pixel with DR-Pix technology, and advanced noise reduction, to enable excellent low-light performance. It can be operated in interlaced (NTSC or PAL) or progressive modes, and captures images in either linear or high dynamic range modes. The AS0140AT may be operated in video (master) mode or in single frame trigger mode, providing flexibility for multi-camera systems.

特性

- 3.0 μm Pixel with ON Semiconductor DR-Pix Technology
- Superior Low-light Performance
- 45 fps at 1.0 MP, 60 fps at 720p
- Linear or High Dynamic Range Video
- Color Processing Optimized for HDR Video Operation
- Color and Gamma Correction
- Auto Exposure, Auto White Balance, 50/60 Hz Auto Flicker Detection and Avoidance
- Adaptive Local Tone Mapping (ALTm)
- Programmable Spatial Transform Engine (STE)
- Pre-rendered Graphical Overlay

For more features, see the data sheet

应用

- Surround, Rear and Front View Cameras
- Blind Spot/Side Mirror Replacement Cameras
- Automotive Viewing/Processing Fusion Cameras

器件电气规格

产品	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (μm)	Output Interface	Color	Package Type
AS0140AT2C00XUSM0-DPBR-E	Pb-free Halide free	Active	CMOS	1	60 fps		Electronic Rolling		Parallel Analog		IBGA-130
AS0140AT2C00XUSM0-DRBR-E	Pb-free Halide free	Active	CMOS	1	60 fps		Electronic Rolling		Parallel Analog		IBGA-130
AS0140AT2C00XUSM0-TPBR-E	Pb-free Halide free	Active	CMOS	1	60 fps		Electronic Rolling		Analog Parallel		IBGA-130
AS0140AT2C00XUSM0-TRBR-E	Pb-free Halide free	Active	CMOS	1	60 fps		Electronic Rolling		Parallel Analog		IBGA-130

欲了解更多信息，请联系您当地的销售支援 www.onsemi.cn。

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