

CMOS CAMERA MODULES



your BEST camera module partner

KLT-H1K-AR0238 V1.0

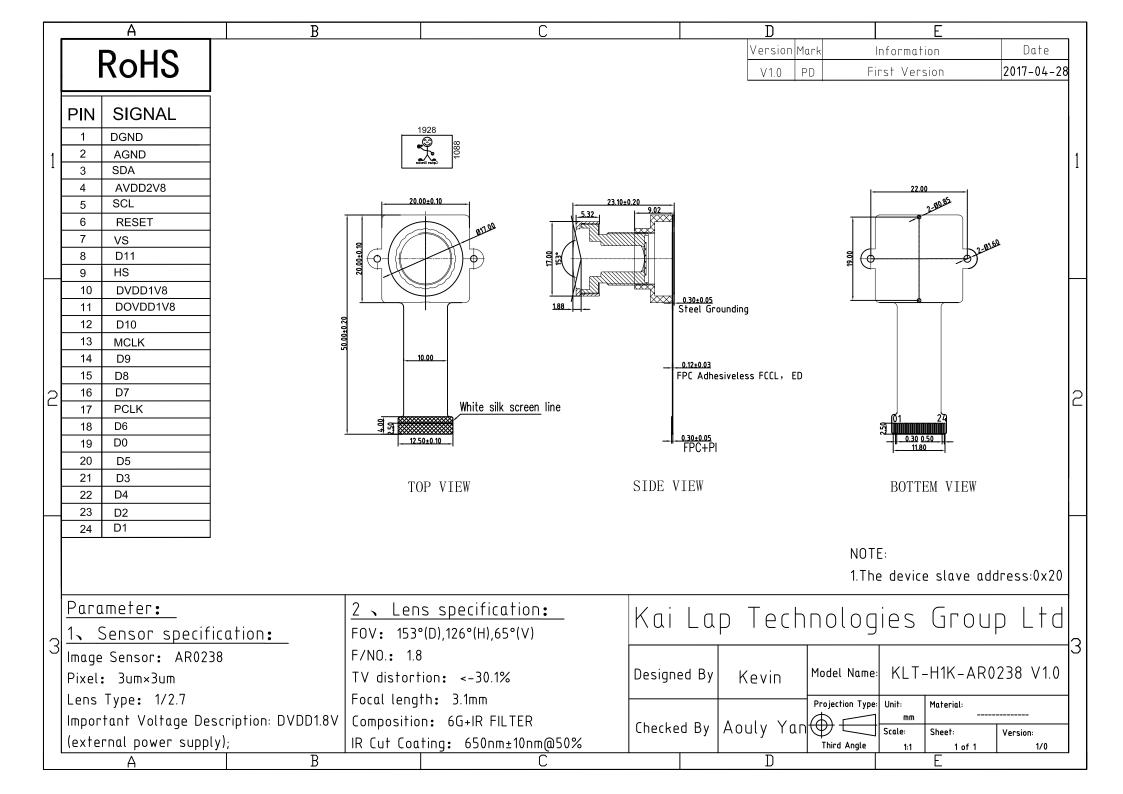
On-Semi AR0238 DVP Parallel and HiSPi Interface Fixed Focus 2MP M12 **Camera Module**



Camera Module No.	KLT-H1K-AR0238 V1.0						
Image Sensor	AR0238						
EFL	3.1 mm						
F.NO	1.8						
Pixel	1928 x 1088						
View Angle	153°						
Lens Type	1/2.7 inch						
Lens Dimensions	20.0 x 20.0 x 23.1 mm						
Module Size	50.0 x 20.0 mm						
Module Type	Fixed Focus						
Interface	DVP Parallel and HiSPi						



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Product Overview

AR0238: 1/2.7-Inch 2.1 Mp/Full HD Digital Image Sensor

For complete documentation, see the data sheet.

ON Semiconductor's AR0238 is a 1/2.7-inch CMOS digital image sensor with an active-pixel array of 1928Hx1088V. It captures images in either linear or high dynamic range modes, with a rolling-shutter readout. It includes sophisticated camera functions such as in-pixel binning, windowing and both video and single frame modes. It is designed for both low light and high dynamic range scene performance. It is programmable through a simple two-wire serial interface. The AR0238 produces extraordinarily clear, sharp digital pictures, and its ability to capture both continuous video and single frames makes it the perfect choice for a wide range of applications, including surveillance and HD video.

Features

- Latest 3.0µm pixel with ON Semiconductor DR-Pix[™] technology with Dual Conversion Gain
- Supports line interleaved T1/T2 readout
- · Full HD support
- · HiSpi or Parallel Interface

Applications

- · Video recording and streaming
- · 1080p60 (monitoring) video applications
- · High dynamic range imaging

Benefits

- Superior low-light performance
- Enables HDR processing in ISP chip
- 1080P 60 fps for superior video performance
- Flexible implementation for OEM Designs

End Products

- Car DVR
- · Wireless Cameras
- Web Cameras

Part Electrical Specifications											
Product	Compliance	Status	Туре	Megapixel s	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0238CSSC12SHRA 0-DP	Pb-free Halide free	Active	CMOS	2	60	1/2.7 inch	Rolling	3.0 x 3.0	HiSPi™	RGB	PLCC-48
AR0238CSSC12SHRA 0-DR	Pb-free Halide free	Active	CMOS	2	60	1/2.7 inch	Rolling	3.0 x 3.0	HiSPi™	RGB	PLCC-48
AR0238CSSC12SPRA 0-DR	Pb-free Halide free	Active	CMOS	2	60	1/2.7 inch	Rolling	3.0 x 3.0	Parallel	RGB	PLCC-48

For more information please contact your local sales support at www.onsemi.com.

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