

ISM-MT9M024

Image Sensor Module

The ISM-MT9M024 integrates Aptinas MT9M024 image sensor, oscillator, voltage control and a M12 or CS-mount lens-holder to support numerous M12 or CS-mount lenses at a size of 30 x 40mm.

The MT9M024 CMOS digital image sensor from Aptina has an active-pixel-array of 1280H x 960V (1.2MP). This sensor can capture in either liner or high-dynamic-range (HDR) mode with rolling-shutter readout. The sensor can be programmed via a simple I²C interface and offers some sophisticated camera functions such as auto exposure control, windowing and both video and single frame modes. The sensor is able to capture in continuous mode for videos or single frame mode for clear sharp images for both low light and high dynamic range scenes.

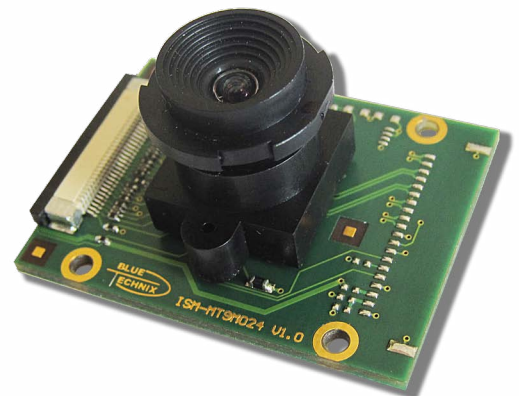
Features

OPTICAL FORMAT	1/3-inch (6mm)
ACTIVE ARRAY	1280H x 960V (1.2MP)
IMAGING AREA	3.54mm(H) x 2.69mm(V)
PIXEL SIZE	3.75µm
RESPONSIVITY	5.48 V/lux-sec
SNR MAX	43.9 dB
MAX DYNAMIC RANGE	>115dB
FRAME RATE	Full resolution 45fps 720p 60fps
CHROMA *	Color, Mono, RCCC
SHUTTER TYPE	ERS - Electronic Rolling Shutter
DATA RATE	27Mb/s
INPUT CLOCK	50MHz
OUTPUT SERIAL	HiSPI 12, 14 or 20 bit on request
OUTPUT PARALLEL	12 bit
SUPPLY VOLTAGE	Power supply 2.5V - 3.1V IO reference 1.8V - 3.1V
POWER CONSUMPTION	270mW (1280x720 60fps Parallel output Linear Mode) 460mW (1280x720 60fps Parallel output HiDy Mode)
OPERATING TEMPERATURE	-40°C to +85°C
RoHS COMPLIANT	Yes
BLT-CAM-CONNECTOR	Yes
LENS HOLDER	M12 or CS-mount objective lens holder
CS-MOUNT COMPATIBLE	Yes
SIZE	30 x 40mm

*depends on version - see ordering information

get further details at

<http://www.bluetechnix.com/goto/ism-mt9m024>



ISM-MT9M024

Applications

- » Lane Departure Warning (LDW)
- » Traffic Sign Recognition (TSR)
- » Stereo Vision
- » High Beam Control (HBC)
- » Driver Monitoring
- » Rear View
- » Surround View
- » Blind Spot Monitoring
- » Machine Vision
- » Video Surveillance
- » Object Recognition

Ordering Information

Order No.	Info
100-3200-1	ISM-MT9M024-Mono
100-3206-1	ISM-MT9M024-Color
100-3208-1	ISM-MT9M024-RCCC

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