

# ISM-MT9M131

## Image Sensor Module

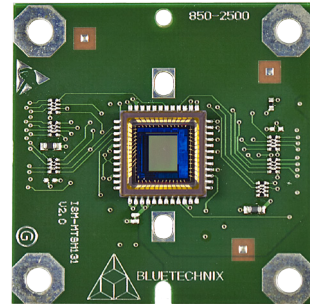


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Embedding Ideas

The ISM-MT9M131-Color integrates Aptinas MT9M131 image SoC (System-on-a-Chip), oscillator, voltage control and a M12 or CS-mount lens-holder to support numerous M12 or CS-mount lenses at a size of 40 x 40mm.

The MT9M131 CMOS digital image sensor from Aptina has an active-pixel-array of 1280H x 1024V (1.3MP). It is an ultra low power, cost effective, progressive scan image sensor with a completely integrated camera system (SoC) which has superior low-light performance. The sensor can be programmed via a simple I<sup>2</sup>C interface and offers some sophisticated camera functions such as auto exposure control, auto white balance (AWB), auto black reference (ABR), auto flicker avoidance, auto color saturation, auto defect identification and correction. The sensor is able to capture in continuous mode for videos or single frame mode for clear sharp images for both low light and normal scenes.

Further information at [www.bluetechnix.com/goto/ism-mt9m131](http://www.bluetechnix.com/goto/ism-mt9m131)



ISM-MT9M131 top view

## Feature Overview

<b>OPTICAL FORMAT</b>	1/3-inch (5:4)
<b>ACTIVE ARRAY</b>	1280H x 1024V(1.3MP)
<b>CHROMA</b>	RGB Bayer pattern
<b>FPS</b>	15fps at 50 MHz (SXGA 1280 x 1024) 30fps at 50 MHz (VGA 640 x 480) 60fps at 50MHz (640 x 512)
<b>SHUTTER TYPE</b>	Electronic Rolling Shutter
<b>DATA RATE</b>	27Mb/s
<b>INPUT CLOCK</b>	50MHz
<b>SNR MAX</b>	44dB
<b>OUTPUT PARALLEL</b>	10 bit
<b>SUPPLY VOLTAGE</b>	2.5V - 3.1V
<b>BLT-ISM-CONNECTOR</b>	Yes
<b>OPERATING TEMPERATURE</b>	-30°C to +70°C
<b>SUPPORTED LENS MOUNT</b>	CS Mount, M12
<b>DIMENSIONS</b>	40 x 40mm

\*depends on version - see ordering information

## Ordering Information

Order No.	Info
100-3202-2	ISM-MT9M131-Color

## Applications

- » IP Cameras
- » Stereo Vision
- » Biometrics
- » Security & Monitoring
- » Toys

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