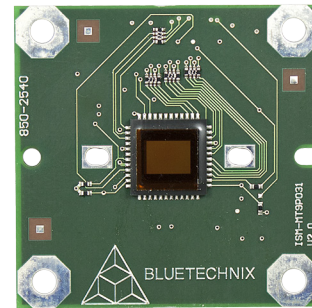# ISM-MT9P031

Image Sensor Module

BLUETECHNIX
Embedding Ideas

The ISM-MT9P031 integrates Aptinas MT9P031 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 40 x 40mm.

The MT9P031 CMOS digital image sensor from Aptina has an active-pixel-array of 2592H x 1944V (5MP). It offers a global reset which triggers the exposure of all rows simultaneously, has superior low-light performance, an automatic black level calibration and an on-chip phased-locked-loop (PLL). The sensor supports Aptina DigitalClarity® imaging technology and very high frame rates. The sensor can be programmed via a simple I²C interface and offers some sophisticated camera functions.

Further information at **www.bluetechnix.com/goto/ism-mt9p031**

ISM-MT9P031 top view

Feature Overview

OPTICAL FORMAT	1/2.5-inch (4:3)
ACTIVE ARRAY	2592H x 1944V (5MP)
CHROMA*	Color, Mono
FPS	14 fps (2592 x 1944) 53fps (VGA with binning 640 x 480) 60fps (720p skipping mode)
SHUTTER TYPE	ERS, GRR, Snapshot only
DATA RATE	27Mb/s
INPUT CLOCK	50MHz
SNR MAX	38.1dB (full res.), 44dB (2 x 2 binning)
OUTPUT PARALLEL	12 bit
SUPPLY VOLTAGE	2.6V - 3.1V
BLT-ISM-CONNECTOR	Yes
OPERATING TEMPERATURE	-30°C to +70°C
SUPPORTED LENS MOUNT	CS Mount, M12
DIMENSIONS	40 x 40mm

*depends on version - see ordering information

Applications

» **High Res. IP Cameras**
» **Hybrid video cameras with high resolution stills**
» **Detailed feature extraction for smart cameras**
» **High Res. Security & Monitoring**

Ordering Information

Order No.	Info
100-3204-2	ISM-MT9P031-Color
100-3210-2	ISM-MT9P031-Mono

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