

overview

- 2592 × 1944 px
- ON Semiconductor MT9P031
- 1/2.5" CMOS
- 13 fps
- Gigabit Ethernet
- Phase-Out starting 09/19, alternative via sales



technical data

sensor information

sensor	ON Semiconductor MT9P031
resolution	2592 × 1944 px
exposure time	0,004 ... 1000 ms
color filter	RGB Bayer Mosaic
pixel size	2.2 × 2.2 µm
shutter type	Rolling shutter
sensor type	1/2.5" CMOS

acquisition formats

image formats, interface frame rate max.	Full Frame, 2592 × 1944 px, max. 13 fps Color Binning 2×2, 1296 × 972 px, max. 33 fps Color Binning 4×4, 648 × 486 px, max. 52 fps
pixel formats	Mono8 BayerRG8 BayerRG12 YUV411 Packed YUV422 Packed

image preprocessing

analog controls	Gain (0 ... 18 dB) Offset (0 ... 4095 LSB 12 Bit)
color models	RGB YUV Mono
color processing	Integrated color processor for high quality color calculation

camera features

synchronization	free running trigger
trigger sources	Hardware software ActionCommand
trigger delay	0 ... 2 sec, tracking and buffering of up to 512 trigger signals
digital inputs	1 input line (with Debouncer)
digital outputs	1 output line
internal image buffer	32 MB

interfaces and connectors

data interface	Gigabit Ethernet, Transfer rate 1000 Mb/s/sec, Connector: 8P8C Modular Jack (RJ45), screwable type
process interface	M8 / 4 pins
power supply	M8 / 3 pins

mechanical data

lens mount	C-mount
width	36 mm
height	36 mm
depth	42 mm
weight	≤ 90 g
material	housing: aluminum

electrical data

voltage supply range +Vs	8 ... 30 V DC
power consumption	approx. 2,7 W

technical data

non-volatile memory

flash memory size 128 kB

environmental conditions

operating temperature +5 ... +50 °C

humidity 10 ... 90 % (non-condensing)

protection class IP 40

conformity

conformity

CE

RoHS

FCC

KC (MSIP-REI-BkR-EXG50)

EAC

dimension drawing

