EXG50c Facts and Data

Digital Color Matrix Camera, 5 Megapixels, Gigabit Ethernet
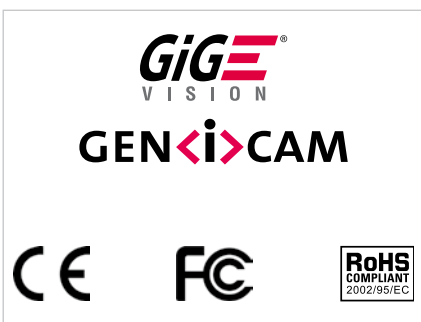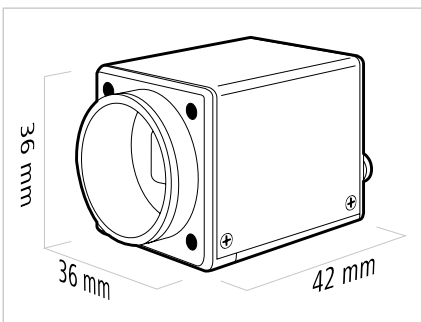
Sensor Information

Model Name	Aptina MT9P031
Type	1/2.5" CMOS
Shutter	Rolling Shutter with Global Reset option
Native Resolution	2592 × 1944 pixels
Exposure Time	4 µsec ... 1 sec
Color Filter	RGB Bayer Mosaic

Acquisition Formats

Image Formats	Full Frame	2592 × 1944 pixels	max.	14.0 fps
	Color Binning 2x2	1296 × 972 pixels	max.	33.0 fps
	Color Binning 4x4	648 × 486 pixels	max.	52.0 fps
Pixel Formats	Mono8, BayerRG8, BayerRG12, YUV411 Packed, YUV422 Packed			
Partial Scan	True Partial Scan, Region of Interest (ROI) arbitrary			

Image Pre-processing

Analog Controls	Gain (0 ... 18 dB), digital Offset (0 ... 4095 LSB | 12 bit)
Color Models	RGB, YUV, Mono
Color Processing	Integrated color processor for high quality color calculation
Color Adjustment	One Push White Balance, User-specific color adjustment

Camera Features

Internal Buffer	32 MBytes (max. 2 images)
Synchronization	Free running, Trigger
Trigger Sources	Hardware, Software, ActionCommand
Trigger Delay	0 ... 2 sec, Tracking and buffering of up to 512 trigger signals
Digital I/Os	1 input line (with Debouncer), 1 output line

Interfaces and Connectors

Data Interface	Gigabit Ethernet, Transfer rate 1000 Mbits/sec Connector: 8P8C Modular Jack (RJ45), screw lock type
Process Interface	M8 / 4 pins
Power Interface	M8 / 3 pins

Mechanical Data

Housing	Aluminum, IP40
Lens Mount	C-Mount
Dimensions	36 × 36 × 42 mm
Weight	< 90 g

Electrical Data

Power Supply	8 ... 30 V DC
Power Consumption	approx. 2.7 Watts

Environmental Data

Operating Temperature	+5 °C ... +50 °C (+41 °F ... +121 °F)
Humidity	10% ... 90% non condensing

36 mm

36 mm

42 mm

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