



EV76C560

B&W and Colour
CMOS Sensor

Nothing remains in the shade

Key Features

- ❖ 1.3 Million pixels (1280 x 1024), 5.3µm Square pixels with micro-lens
- ❖ High speed: 60 fps at full resolution, low light CMOS sensor
- ❖ Global shutter for sharp images of fast moving objects
- ❖ Rolling shutter allowing true CDS and global reset for best SNR
- ❖ Multiple simultaneous regions of interest [4 separate windows]
- ❖ Linear dynamic range 62dB @ 25°C with possible HDR modes
- ❖ Low power consumption
- ❖ Output format 10 bits parallel plus synchronisation

- ❖ Operating temperature [-30° to +65°C]
- ❖ Package : CLCC 48 12.7x12.7mm
- ❖ SPI control

Typical Applications

- ❖ Intelligent cameras
- ❖ CCTV/IP surveillance cameras
- ❖ Industrial machine vision
- ❖ Barcode reading/scanners
- ❖ Biometric and medical imaging
- ❖ Automotive vision
- ❖ HD camcorders

This 1.3 million pixel CMOS image sensor, designed on e2v's proprietary Eye-On-Si CMOS imaging technology, is ideal for diverse applications where superior performance is required. Its innovative pixel design offers excellent performance in low-light conditions with both electronic rolling shutter and electronic global shutter, with a high-readout speed of 60 fps in full resolution. Novel industrial machine vision application features such as multi ROI and histogram output are embedded on-chip. Very low power consumption enables this device to be used in battery powered applications.

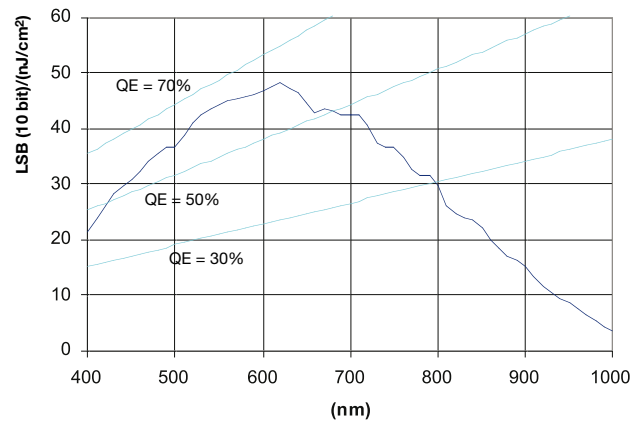
Sensor characteristics

Sensor Characteristics		
Resolution	pixels	1280 (H) x 1024 (V)
Image size	inches	1/1.8
Pixel size (square)	µm	5.3 x 5.3
Aspect ratio		5 / 4
Max frame rate	fps	60 @ Full format >100 @ VGA format
Pixel rate	Mpixels/s	90 to 120

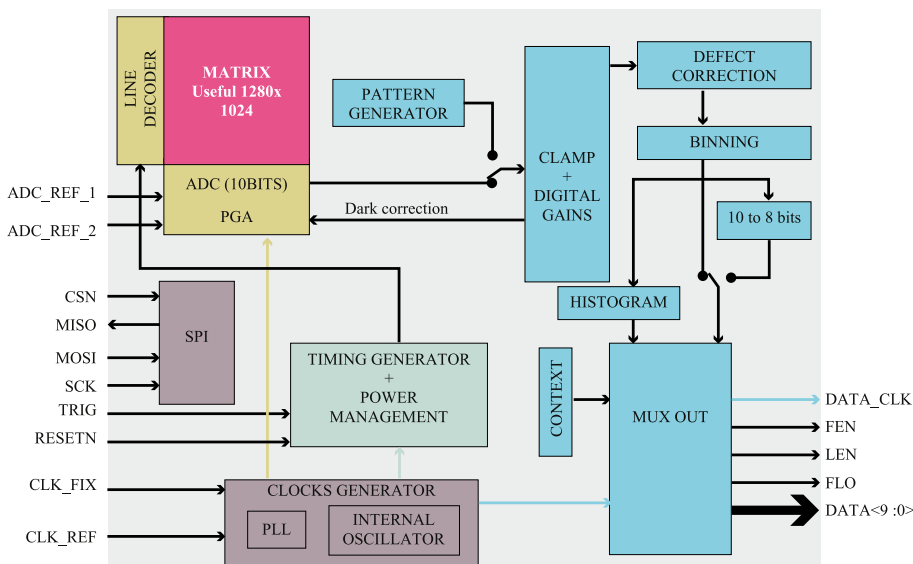
Pixel performance		
Bit depth	bits	10
Dynamic range	dB	66 (linear) >100 (HDR mode)
SNR max	dB	42
Responsivity	LSB10/(nJ/cm ²)	48

Mechanical and Electrical Interface		
Power supplies	V	3.3 & 1.8
Power Consumption		
Functional	mW	200
Standby	µW	180

Spectral response & Quantum efficiency



Sensor overview - Block Diagram



Ordering codes :

EV76C560BB for Black and White product
EV76C560BC for Bayer product
for other CFA options please contact e2v

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