



EV76C560

1.3M Sapphire family

B&W and color CMOS sensor

CIVIL AEROSPACE

DEFENCE

SPACE

INDUSTRIAL

MEDICAL & SCIENCE

SECURITY & RESCUE



Nothing remains in the dark

KEY FEATURES

- 1.3 million pixels (1280 x 1024), 5.3 μ m 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 synchronization
- Operating temperature (-30° to +65°C)
- Package : CLCC
- SPI control

TYPICAL APPLICATIONS

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

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ORDER
CODES

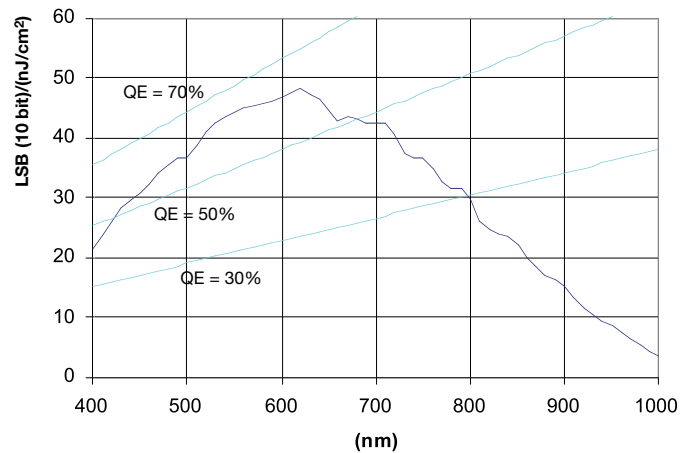
EV76C560ABT-EQV for black and white product
EV76C560ACT-EQV for Bayer product
For other CFA options please contact e2v

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. The 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.

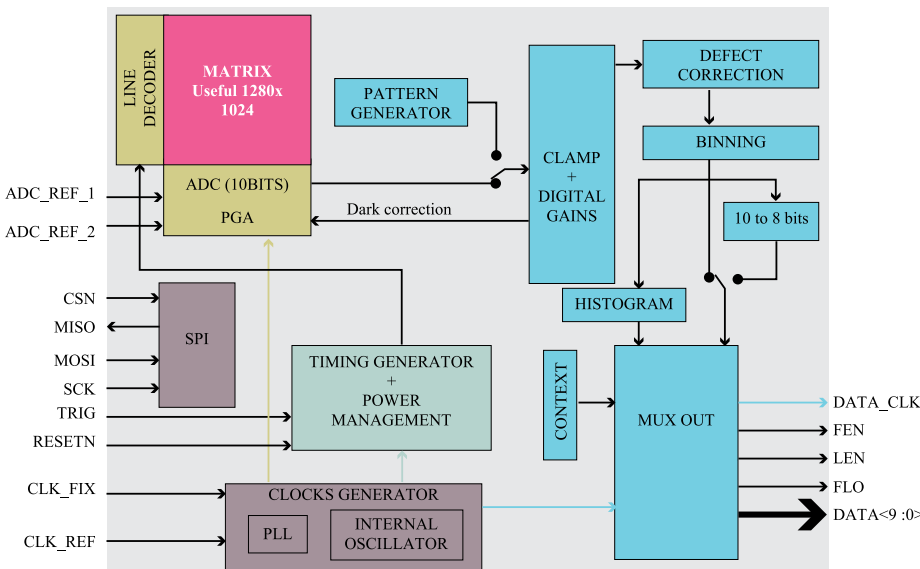
Sensor characteristics

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/s (nJ/cm ²)	48
MECHANICAL & ELECTRICAL INTERFACE		
Power supplies	V	3.3 & 1.8
Power consumption		
Functional	mW	200
Standby	µW	180

Spectral response and quantum efficiency



Sensor overview – Block diagram



Contact us online at:

e2v-us.com/contact-us

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T 408 737 0992
F 408 736 8708

