SAPPHIRE series S-25A30





Key characteristics



- 25 mpx at 32 fps
- OnSemi VITA 25k sensor
- True Global Shutter CMOS
- Monochrome and Color
- Camera Link (Full / Deca)

Description

The S-25A30 is a 25 megapixel CMOS global shutter camera and delivers images of 5120×5120 pixels at 32 fps over Camera Link. Using the standard Region of Interest function the frame rate can be increased, e.g. 100 fps at 8 Mpx.

Embedded real-time pixel processing minimizes blemishes and maximises uniformity. The combination of Adimec image quality, form factor and low power usage makes the camera ideal for inspection systems that require high resolution to increase in throughput or accuracy.



Ultra High Resolution Camera for Machine Vision

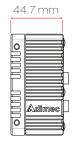
Specifications

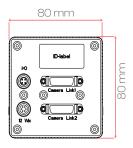
Pixel size 4.5 µm x 4.5 µm with micro lenses Resolution 5120 (H) x 5120 (V) Optical sensor size 35mm Video Output Camera Link (Full / Deca), 66 or 85 Mhz Max frame rate (10 tap, 8 bit) 32 fps Dynamic range 52 dB Full Well 13 kel (max linear) Electronic shutter Global shutter 5T Image acquisition Continuous / Controlled / Triggered Output resolution 8 or 10 bit (8 tap), 8 bit (10 tap) Monochrome / color Monochrome / Color (Bayer RGB) Power input 10 - 24 Vdc Power usage ≤ 7.5 W Operating tempreture -10°C to +40°C, Reliability > 75,000 h @ 40°C Weight 400g excluding lens mount Lens mount Options: TFL-II, F-mount, M42 or T2		S-25A30
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Compliance CE, ROHS	Lens mount	Options: TFL-II, F-mount, M42 or T2
	Compliance	CE, ROHS

Functionality

Flat Field Correction (FFC)		$\sqrt{}$
Defect pixel correction		$\sqrt{}$
Manual white balance		$\sqrt{}$
One push AWB	-	V
ROI (single, multi band)	$\sqrt{}$	V
Frame counter	V	V
LUT	$\sqrt{}$	V
Digital fine gain (1x to 8x)	$\sqrt{}$	V
Automatic black level control	V	V
PRNU and DSNU calibrations	$\sqrt{}$	V
Non-volatile calibration data storage	V	V
Programmable I/O		V
√: Standard -: Not available		

Dimensions





Customization

All models of the SAPPHIRE series are customizable to fit specific system outline, functionality or perforance requirements.

Please contact us about your possibilities.

For maximum image quality, performance, and reliability in demanding applications - Choose Adimec

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