

SAPPHIRE series

S-25A30



Key characteristics

4.5 μ m²

5120
X
5120

32fps

CMOS
GS

35mm

≤7.5W

<80mm²

<400g

52dB

- 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 x 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.

Specifications

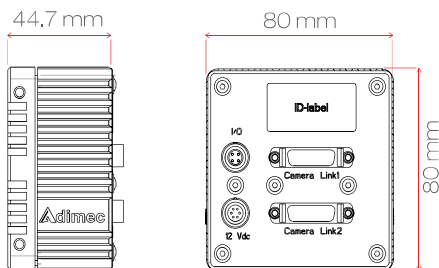
	S-25A30
Sensor	Vita25k CMOS
Pixel size	4.5 μm x 4.5 μm with micro lenses
Resolution	5120 (H) x 5120 (V)
Optical sensor size	35mm
Video Output	Camera Link (Full / Deca), 66 or 85 Mhz
Max frame rate (10 tap, 8 bit)	32 fps
Dynamic range	52 dB
Full Well	13 kel (max linear)
Electronic shutter	Global shutter 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 temperature	-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
Compliance	CE, ROHS

Functionality

		
Flat Field Correction (FFC)	√	√
Defect pixel correction	√	√
Manual white balance	-	√
One push AWB	-	√
ROI (single, multi band)	√	√
Frame counter	√	√
LUT	√	√
Digital fine gain (1x to 8x)	√	√
Automatic black level control	√	√
PRNU and DSNU calibrations	√	√
Non-volatile calibration data storage	√	√
Programmable I/O	√	√

√: Standard -: Not available

Dimensions



Customization

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

Please contact us about your possibilities.

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

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