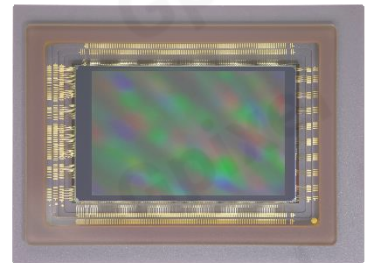


GCINE3243



8K 60fps APS-sized CMOS Image Sensor

GCINE3243 is a back-illuminated, stacked CMOS image sensor with 8K resolution in an APS-C format. It's excellent sensitivity, high dynamic range, fast frame rate, and low noise are ideal for professional video applications and scientific imaging. The sensor captures 8K video at 60 fps, or using on-chip 2x2 binning, 4K video at 120 fps, both at 14-bit resolution. The chip also supports 6K M43, 4K Super 16 and other popular video formats. Multiple HDR functions are available including dual-gain, compression, and multi-slope. The maximum data rate is 33.6 Gbps, delivered through up to 32 pairs of LVDS channels.



Key Features

- BSI, stacked architecture
- APS-C format
- 8k video resolution
- High dynamic range
- Low noise

Applications

- Professional video
- Scientific imaging
- Industrial inspection

Sensor Specifications

Resolution	8192 (H) x 5232 (V)	Optical format	APS-C
Pixel size	3.2 μm x 3.2 μm	Photo-sensitive area	26.2 mm x 16.7 mm
Shutter type	Rolling & DSC	Quantum efficiency	
Full well capacity	96ke- (8K Video Mode)	Max SNR	50 dB
Dark noise	2.5 e- (DSC High Gain)	Frame rate	60 fps@8K 120 fps@4K
Dynamic Range	81 dB (8K HDR)	Channel multiplexing	32/16/8
Output Interface	32x1.05Gbps sLVDS	Max data rate	33.6 Gbps
Chroma	Mono & Color	Power consumption	2 W-4 W
Supply voltage	3.3 V、1.8 V、1.25 V、 -2.2 V、4.5 V	Package	LGA、48 mm x 35.5 mm

Ordering Information

Sensor Part No.	Description	Marking Code	Blemish Grade
GCINE3243-BVM-NLT-BUD	Monochrome, microlens, ceramic 455 pins LGA, Sealed D263T glass with AR coating	GCINE3243-BM	Demo Grade
GCINE3243-BVM-NLT-BUE			ES
GCINE3243-AVC-NLT-BUD	RGB Bayer, microlens, ceramic 455 pins LGA, Sealed D263T glass with AR coating	GCINE3243-AC	Demo Grade
GCINE3243-AVC-NLT-BUE			ES

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