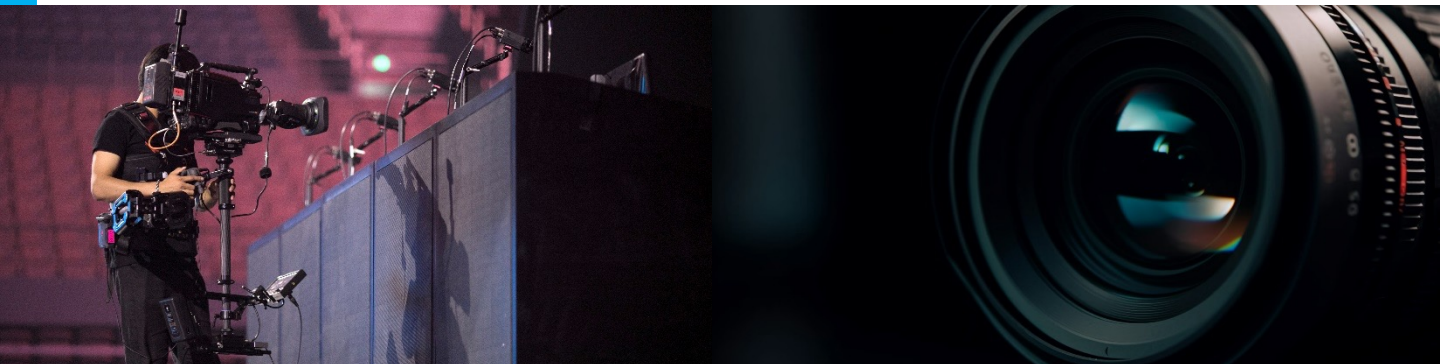
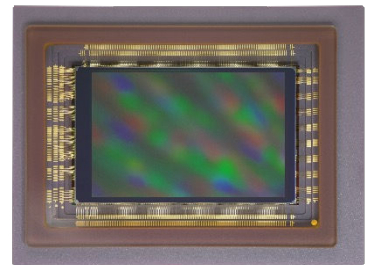


GCINE3243



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

- Prosumer & Professional Video
- Scientific Imaging
- Astronomy

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 | TBD |
| Full well capacity | 96 ke- (4 exposure 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 |

Contact Gpixel HQ

Building #5, Optoelectronic
Information Industrial Park,
#7691 Ziyou Road,
Changchun, Jilin, China.

Tel: +86-0431-85077785
Email: info@gpixel.com
Website: www.gpixel.com

Scan me for more information:



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