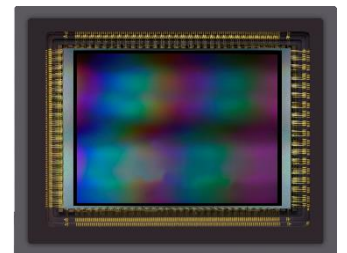


GCINE4349 Product Flyer



8K HDR FULL FRAME VIDEO CMOS IMAGE SENSOR

GCINE4349 is an 8K video HDR full frame (35.2 x 25.8 mm²) stacked BSI image sensor designed with large 4.3 μ m pixels. It achieves a stunning 120 fps with 16-bit pixel output and achieves a max Dynamic Range of 110 dB for HDR mode. Several read out modes are supported to read out 8K or binned 4K video resolution combined with dual gain HDR modes as well as a DSC mode targeting still photography. The stacked BSI architectures allows high data rates to achieve 120 fps @ 8K or even 240 fps @ 4K video resolution, all with a pixel bit depth of 16 bit/pixel interfaced over 64 sub LVDS channels @ 1.2 Gbps/channel. These unique features make it an ideal solution for high end video as well as photography applications and other high resolution, high performance applications.



Key Features

- 4.3 μ m square pixels
- Stacked sensor with backside illumination
- Rolling Shutter with DSC support
- high Full Well Charge with low noise
- Dual Gain Readout

Applications

- Professional video
- Professional DSC Camera

Sensor Specifications

Resolution	8192 x 6000	Optical format	Full frame (35 mm format)
Pixel size	4.3 um × 4.3 um	Photo-sensitive area	35.2 mm x 25.8 mm
Shutter type	Rolling & DSC	Quantum efficiency	75%
Full well capacity	160ke ⁻ (8K Video Mode)	Pixel clock rate	37.125MHz
Dark noise	1.7e ⁻ (DSC High Gain)	Dark current	TBA
Dynamic range	87dB (up to 110dB)	Frame rate	120fps @ 8K 240fps @ 4K
Output interface	64x 1.2Gbps sLVDS	Max. Data rate	76.8Gbps
Chroma	Color	Power consumption	3.3W – 8.1W
Power supply	3.3V, 1.8V, 1.25V, -2.2V	Package	431-pinLGA 57.6 mm x 44.4 mm

Ordering Information

Sensor Part No.

GCINE4349-AVC-NLT-BU1
Color, with ulens, Grade 1

GCINE4349-AVC-NLT-BUE
Color, with ulens, Grade ES

GCINE4349-AVM-NLN-BU1
Mono, without ulens, Grade 1

GCINE4349-AVM-NLN-BU2
Mono, without ulens, Grade 1

GCINE4349-AVM-NLN-BUE
Mono, without ulens, Grade E

EVK Part No.

EVA-4349-01-1, USB interface, 3 stacked PCB boards

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