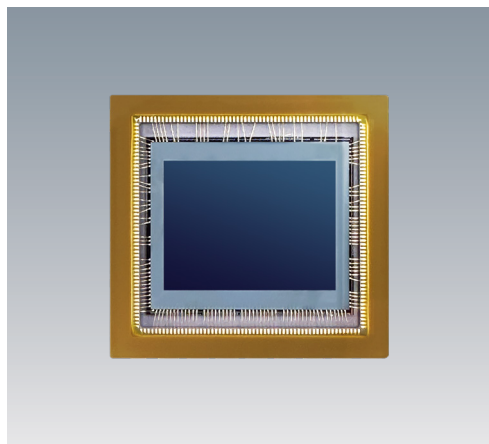


0.9 inch 6.3M CMOS图像传感器

BGG062

BRIGATES



BGG062 为0.9 inch 6.3M分辨率全局曝光CMOS图像传感器, 最高帧率为90fps, 有效像素为2896(H) × 2176(V)。

产品特点

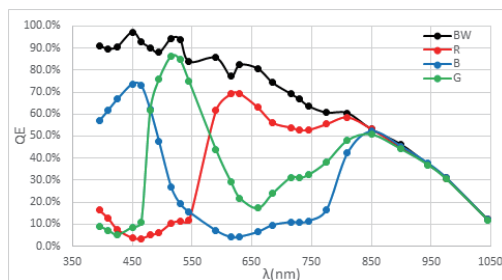
- 高性能像素设计
- 高动态范围, 支持Analog gain HDR
- 量化精度可变8bit/10bit/12bit
- 支持2×2 Binning
- 支持Skip mode-sub sampling
- 支持外触发模式
- 支持最多8(H)×8(V) ROI读出
- LED strobe
- 内置温度传感器
- 多芯片级联

产品应用

- 安防监控
- 工业相机
- 高速图像采集

产品参数

量子效率曲线



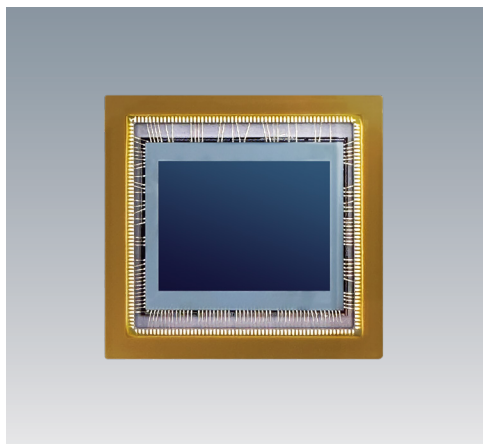
参 数	参 数 值
光学尺寸	0.9 inch
分辨率(H×V)	2896 × 2176
像素大小	4um(H) x 4um(V)
像素特点	低噪声Global shutter像素
有效感光面积	11.584mm × 8.704mm
灵敏度	130615 e-/lux.s / 67100 e-/lux.s @ G
SNR(max)	43.7 dB
暗电流@60℃	61 e-/s/pixel
寄生光感(PLS)	>100000
最高帧率	90 fps@full frame 12bit / 180 fps@1080P 12bit
光滤阵列	Bayer RGB/BW
CRA	0°
曝光方式	Global shutter
高动态范围模式	Analog gain HDR
读出噪声	1.4 e-
光响应不一致性	0.9%
暗信号非均匀性FPN	0.1%
动态范围	84 dB @ HDR
量化精度	12bit / 10bit / 8bit
输出接口	LVDS 8/6/4/2Lane, 8/10/12bit MIPI 8/4/2Lane, 8/10/12bit
工作温度	-30 ~ 85℃ ^①
供电	1.2V ± 0.05V (Digital) / 1.7V ~ 3.3V (范围内均可) (IO) / 2.8V ± 0.1V (Analog)
控制接口	IIC
封装形式	CLGA
封装尺寸	小于21mm × 18mm
ESD等级HBM	2000V

① 此处温度为结温范围, 非环境温度

0.9 inch 6.3M CMOS Image Sensor

BGG062

BRIGATES



BGG062 is a 0.9 inch 6.3M global shutter CMOS image sensor with a maximum frame rate of 90fps. It has an active pixel array of 2896(H) × 2176(V).

Features

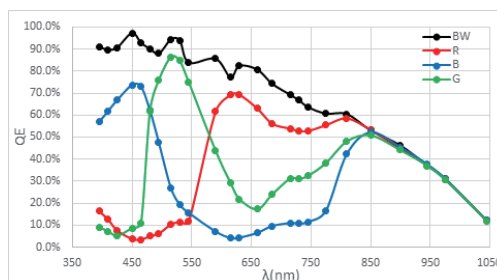
- High performance pixel design
- High dynamic range, supporting analog gain HDR
- Variable quantization precision: 8bit/10bit/12bit
- Support 2×2 binning
- Support skip mode-sub sampling
- Support external trigger mode
- Support maximum ROI readout of 8(H)×8(V)
- LED strobe
- Built-in temperature sensor
- Multi-chip cascading

Applications

- Security surveillance
- Industrial camera
- High-speed image capture

Parameter

QE Curve



Parameter	value
Optical format	0.9 inch
Active pixel array(H×V)	2896 × 2176
Pixel size	4um(H) x 4um(V)
Pixel feature	Low-noise global shutter pixels
Active pixel array area	11.584mm × 8.704mm
Sensitivity@ BW	130615 e-/lux.s / 67100 e-/lux.s @ G
SNR(max)	43.7 dB
Dark current@60°C	61 e-/s/pixel
PLS	>100000
Frame rate	90 fps@full frame 12bit / 180 fps@1080P 12bit
Color filter array	Bayer RGB/BW
CRA	0°
Shutter	Global shutter
HDR mode	Analog gain HDR
Readout noise	1.4 e-
PRNU	0.9%
DSNU	0.1%
Dynamic range	84 dB @ HDR
Quantization accuracy	12bit / 10bit / 8bit
Output interface	LVDS 8/6/4/2Lane, 8/10/12bit MIPI 8/4/2Lane, 8/10/12bit
Temperature range	-30 ~ 85°C ^①
Power supply	1.2V ± 0.05V (Digital) / 1.7V ~ 3.3V (any voltage accepted) (IO) / 2.8V ± 0.1V (Analog)
Control interface	IIC
Packaging	CLGA
Dimensions	< 21mm × 18mm
ESD rating	2000V

①The temperature range specified here is for junction temperature, not ambient temperature.