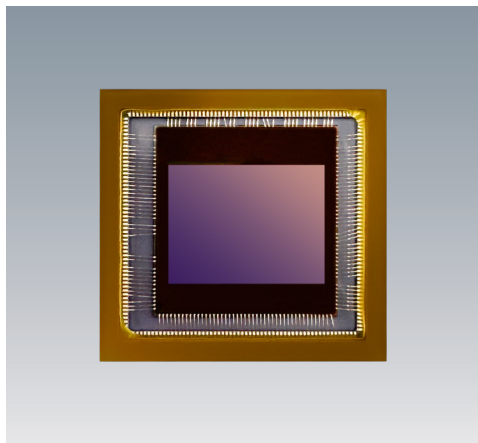


3/4 inch 6.3M CMOS图像传感器 BGG061

BRIGATES



BGG061为3/4 inch 6M分辨率全局曝光CMOS图像传感器，最高帧率为60fps，有效像素为2896(H) × 2176(V)。

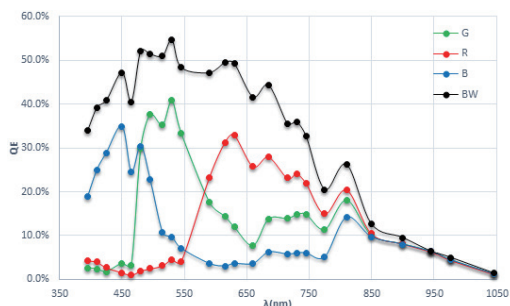
产品特点

- 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
- 支持外触发编码曝光
- 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

量子效率曲线



产品参数

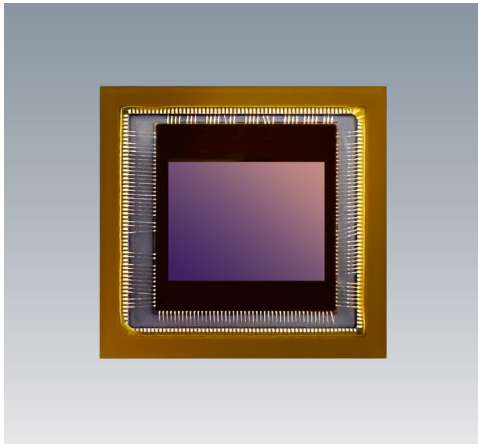
参 数	参 数 值
光学尺寸	3/4 inch
分辨率(H×V)	2896 × 2176
像素大小	3.45um × 3.45um
像素特点	低噪声Global shutter像素
有效感光面积	9.991mm × 7.507mm
灵敏度	45296e-/lux.s@BW 19861e-/lux.s@G通道
SNR(max)	39.1dB
满阱电子数	8Ke-
暗电流@60°C	PD: 100e-/s/pixel SN: 15e-/s/pixel
寄生光感(PLS)	6000
最高帧率	60fps@full frame 12bit 130fps@1080P 12bit
光滤阵列	Bayer RGB/BW
CRA	9°MAX
曝光方式	Global shutter
高动态范围模式	Analog gain HDR
读出噪声	1.4e-
动态范围	75dB
量化精度	12bit / 10bit / 8bit
输出接口	8/6/4/2 lane LVDS 8/4/2 lane MIPI 12bit/10bit/8bit数据格式
工作温度	-30 ~ 85°C ^①
供电	1.5V ± 0.1V (Digital) / 1.7V ~ 3.3V (IO) / 3.3V ± 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

3/4 inch 6.3M CMOS Image Sensor

BGG061

BRIGATES



BGG061 is a 3/4 inch 6M global shutter CMOS image sensor with a maximum frame rate of 60fps. It has an active pixel array of 2896(H) × 2176(V).

Features

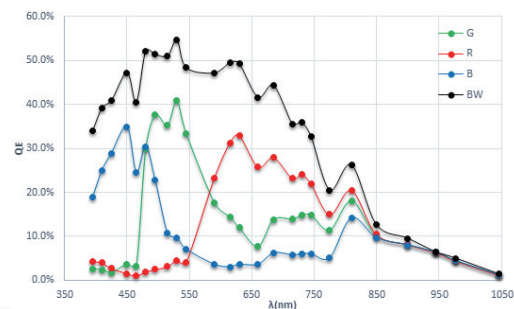
- High performance pixel design
- High dynamic range, supporting analog gain HDR
- Variable quantization precision: 8bit/10bit/12bit
- Support 2×2 binning
- Support skip mode-sub sampling
- Support external trigger mode
- Support external trigger encoded exposure
- Support maximum ROI readout of 8(H)×8(V)
- 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	3/4 inch
Active pixel array(H×V)	2896 × 2176
Pixel size	3.45um × 3.45um
Pixel feature	Low-noise global shutter pixels
Active pixel array area	9.991mm × 7.507mm
Sensitivity	45296e-/lux.s@BW 19861e-/lux.s@G channel
SNR(max)	39.1dB
FWC	8Ke-
Dark current@60°C	PD: 100e-/s/pixel SN: 15e-/s/pixel
PLS	6000
Frame rate	60fps@full frame 12bit 130fps@1080P 12bit
Color filter array	Bayer RGB/BW
CRA	9°MAX
Shutter	Global shutter
HDR mode	Analog gain HDR
Readout noise	1.4e-
Dynamic range	75dB
Quantization accuracy	12bit / 10bit / 8bit
Output interface	8/6/4/2 lane LVDS 8/4/2 lane MIPI 12bit/10bit/8bit data format
Operating temperature	-30 ~ 85°C ^①
Power supply	1.5V ± 0.1V (Digital) / 1.7V ~ 3.3V (IO) / 3.3V ± 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.