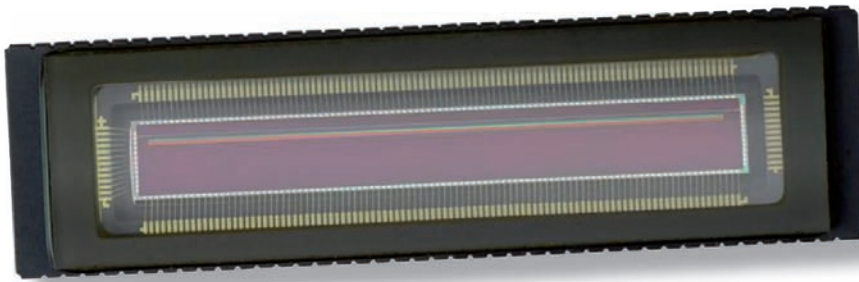


Lin-CMOS 0204

2100 x 8 / 6300 x 4 Linear CMOS Image Sensor

Preliminary Short Form Datasheet



Applications:

- Color Sorting
- Printing Inspection
- Industrial Inspection
- OCT

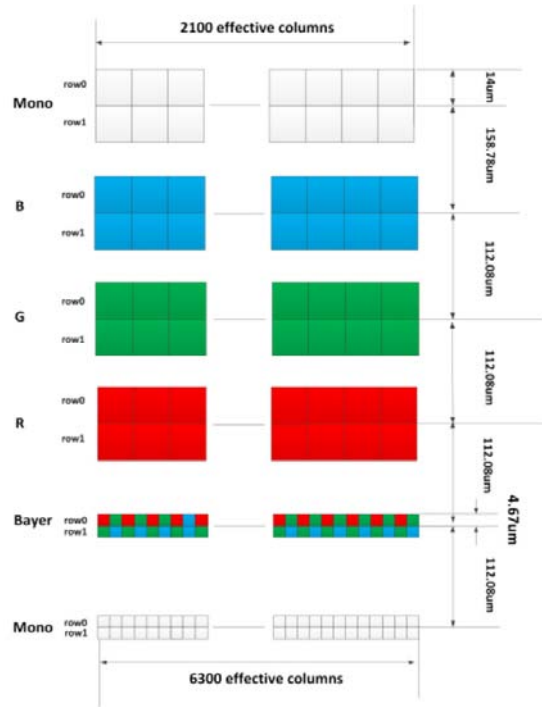
Sensor Description:

Designed for color sorting applications, Lin-CMOS 0204 is one of the most versatile line scan sensors in the market. All assembled inside a CLCC84 package, its 14.01 μm pixel is focusing on high sensitivity applications, such as color sorting and OCT applications, while the 4.67 μm pixel has both Bayer and mono rows and offering 6.3 k resolution at a frame rate of 20 kHz, applicable for many industrial inspection applications. 4 different operating modes are available, one may choose the pixel size and operating mode according to the application, and the pixel gain and the programmable gain amplifier (PGA) can be adjusted for best image quality.

Sensor Specifications:

	14.01 μm Mono dual line	14.01 μm RGB 3-line	14.01 μm RGB 6-line	4.67 μm Bayer/Mono
Resolution	2100 x 2	2100 x 3	2100 x 6	6300 x 2
Pixel size	14.01 μm x 14.01 μm			4.67 μm x 4.67 μm
Shutter type	Global shutter			
Dark noise	4.6 e ⁻	5.2 e ⁻	10.7 e ⁻	5.6 e ⁻
Full well capacity	300 ke ⁻	316 ke ⁻	305 ke ⁻	29 ke ⁻
Signal-to-noise ratio (max)	54 dB	54 dB	54 dB	44 dB
Dynamic range (intra-scene)	68 dB	69 dB	66 dB	64 dB
Line rate	46 kHz	46 kHz	20 kHz	20 kHz
QE x FF	73 % @ mono, 59 % @ blue, 60 % @ green, 70 % @ red			
PRNU	< 2 %	< 2 %	< 2 %	< 2 %
LVDS pairs	8	12	12	12

Operation Modes:



Package:

