Backside Illuminated Scientific CMOS Image Sensor





SENSOR DESCRIPTIONS

Gpixel

As the first backside illuminated scientific CMOS image sensor in the world, GSENSE400BSI features low readout noise of 1.6e⁻, high dynamic range of 93dB, and low dark current of 0.2e⁻/s/pix at deep cooling of -50°C. With special ARC, the sensor provides peak of 95% @ 570nm. In addition, GSENSE400BSI sensors can output 24fps at HDR mode and 48fps in STD mode. These features make GSENSE400BSI ideal for high-end scientific imaging, corona detection, astronomy, spectroscopic, and forensic imaging applications.

GSENSE400BSI SPECIFICATIONS

Photo-sensitive area	22.5mm(H) x 22.5mm(V)	SNR Max	49.5dB
Pixel size	11µm x 11µm	Dark noise	1.6e ⁻
Resolution	2048×2048	Dark current	<0.2e ⁻ /s/pix @ -50°C
Shutter type	Rolling shutter	Dynamic range (HDR mode)	94 dB
ADC	12bit	Full well capacity	91ke ⁻
Max frame rate	48fps	Data rate	2.4Gbit/s @ 25MHz
Supply voltage	3.3V / 1.8V	Quantum efficiency	95%@570nm
Max power	<650mW	Package	115-pin PGA



Please address all product inquiries to GPIXEL. Email: info@gpixel.com