

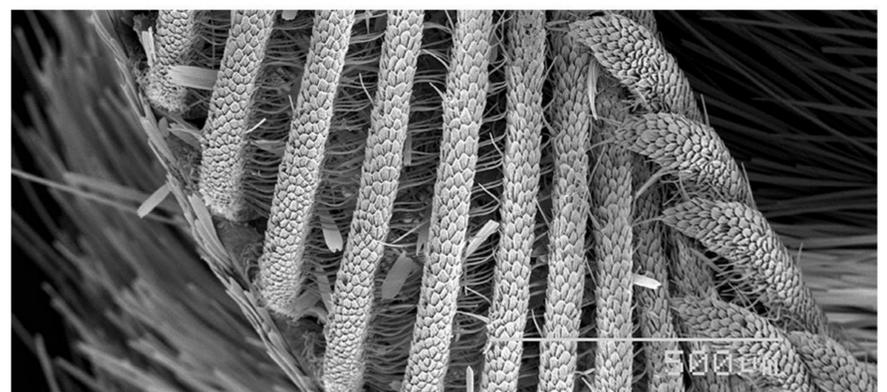


GSENSE6060BSI

37 MP ROLLING SHUTTER IMAGE SENSOR

GSENSE6060BSI is designed with a large imaging area for demanding astronomical and scientific imaging applications. With its top and bottom readout chains consisting of 2×25 LVDS pairs running up to 420 MHz, **GSENSE6060BSI**'s frame rate is up to 26 fps with 12 bit ADC, allowing scientists to observe with the never-achieved temporal resolution of large format imagers. The two readout chains also provide the possibility for HDR combination up to 90 dB.

The Aluminum Nitride package of **GSENSE6060BSI** provides 10x thermal conductivity than the traditional Alumina package, as well as excellent flatness both at the room temperature and deep-cooled temperatures. **GSENSE6060BSI** is equipped with removable glass lids.



Key Features and Benefits

- ▶ Large Format BSI Scientific CMOS
- ▶ Peak QE of 95%
- ▶ 14 bit with CMS

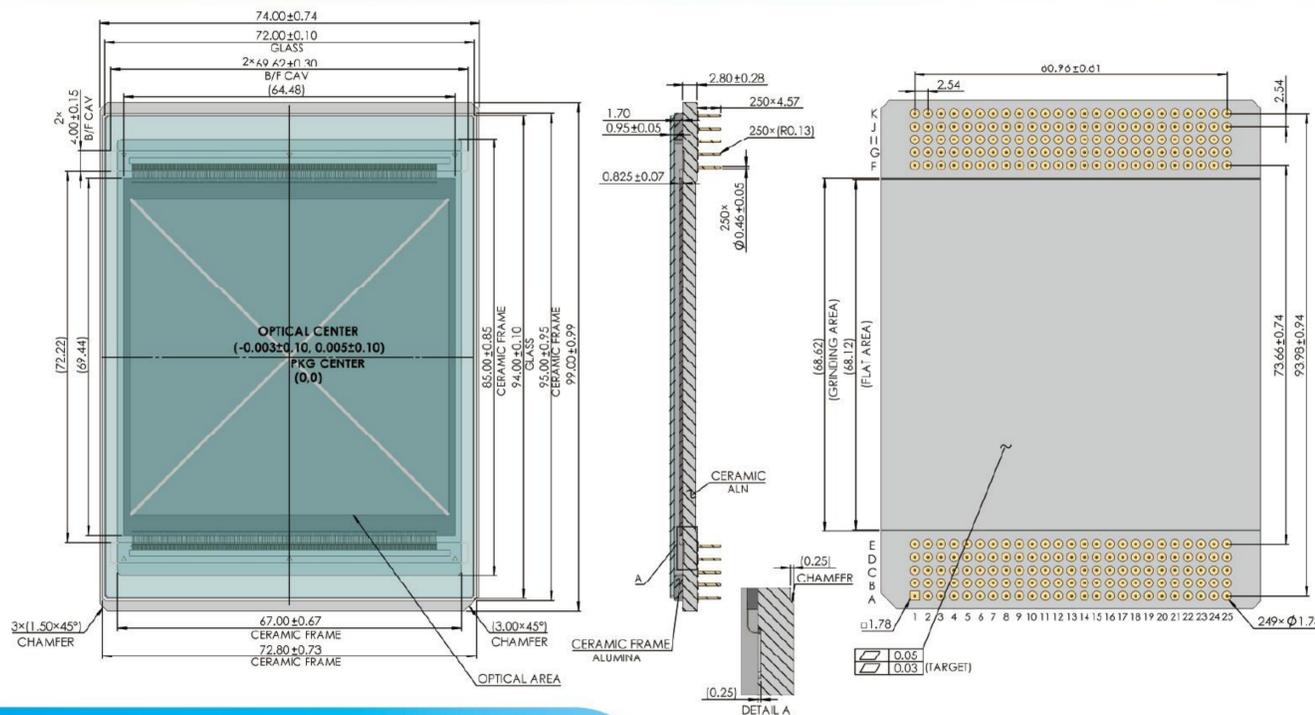
Application

- ▶ Spectroscopy
- ▶ Life Sciences
- ▶ Astronomy
- ▶ Microscopy
- ▶ X-Ray

Specifications

| | | | |
|---------------------|--------------------------------------|---------------------|---------------------------------|
| Nr of Active Pixels | 6144(H) x 6144(V) | Optical Format | 5.4" |
| Pixel Size | 10 μm x 10 μm | Photosensitive Area | 61.44 mm x 61.44 mm |
| Shutter Type | Rolling Shutter | Peak QE | 95% (580 nm) |
| Full Well Capacity | 95 ke ⁻ | Temporal Noise | 3 e ⁻ (HG) |
| Dark Current | 0.04 e ⁻ /pixel/s (-40°C) | Dynamic Range | 90 dB (12 bit,HDR) |
| Max Frame Rate | 26 fps (12 bit,STD) | Output Format | 50 ch LVDS |
| Max. Data Rate | 21 Gbps | ADC | 12/14 bit |
| Chroma | Mono | Power Consumption | < 4 W |
| Supply Voltage | 5 V (analog) 1.85 V (digital) | Package | 250 pins PGA (74 mm x 99 mm) |

Package Drawing



Contact Gpixel

GPIXEL CHINA CHANGCHUN (HQ)

Building 5, Optoelectronic Information
Industrial Park, 7691 Ziyou Road,
130033 Changchun, Jilin, China
Phone: +86-431-85077785

GPIXEL EUROPE

Gpixel NV
Copernicuslaan 60, 2018
Antwerpen, Belgium
Phone: +32-33034442

GPIXEL JAPAN

Gpixel Japan Co., Ltd.
TOC Osaki Building 18th Floor, 1-6-1 Osaki,
Shinagawa-ku, Tokyo, 141-0032 Japan
Phone: +81-03-5962-1600



Disclaimer: The product information and pictures in this flyer are for reference only. For the latest information please visit www.gpixel.com.
GP-PR250801 V1.1