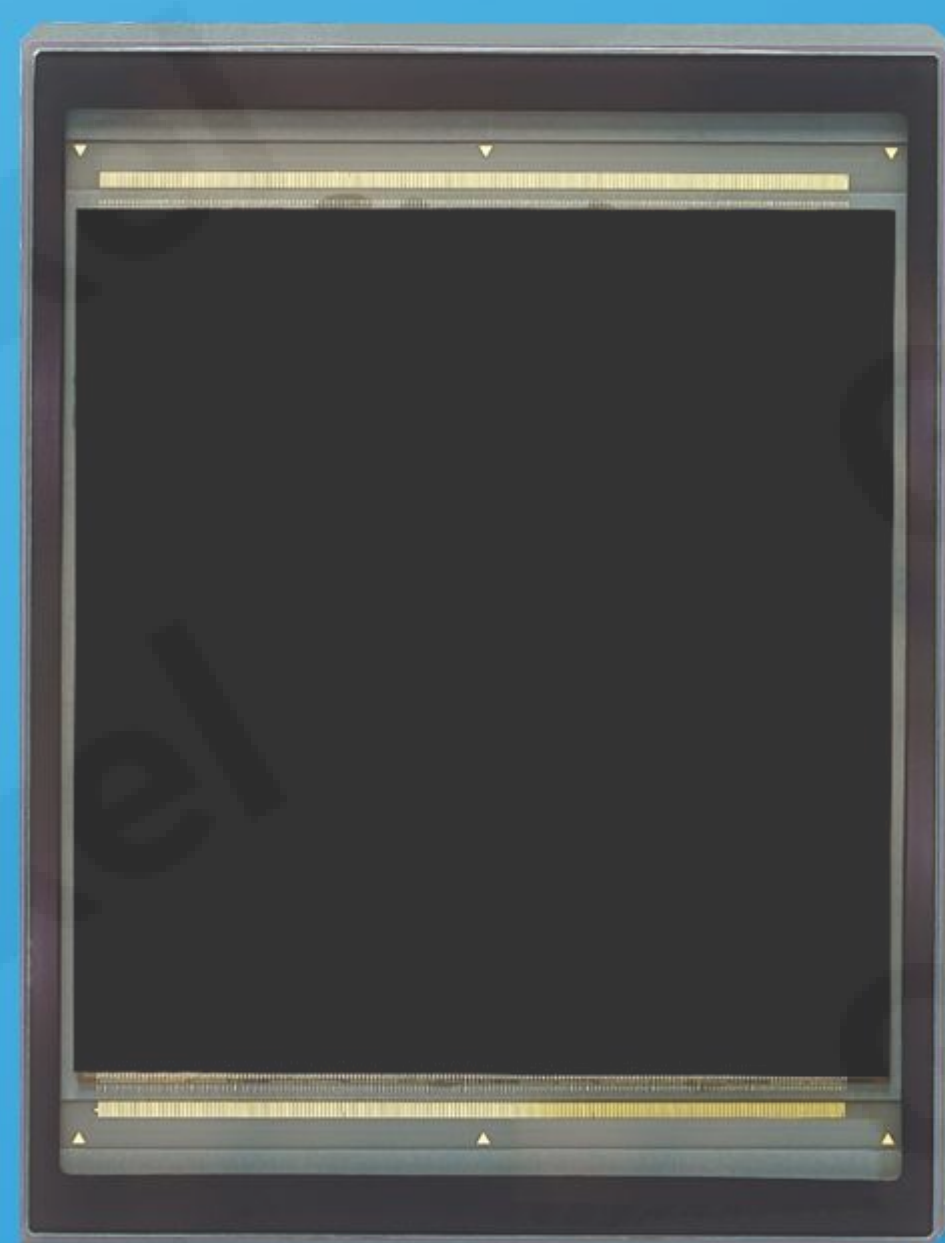




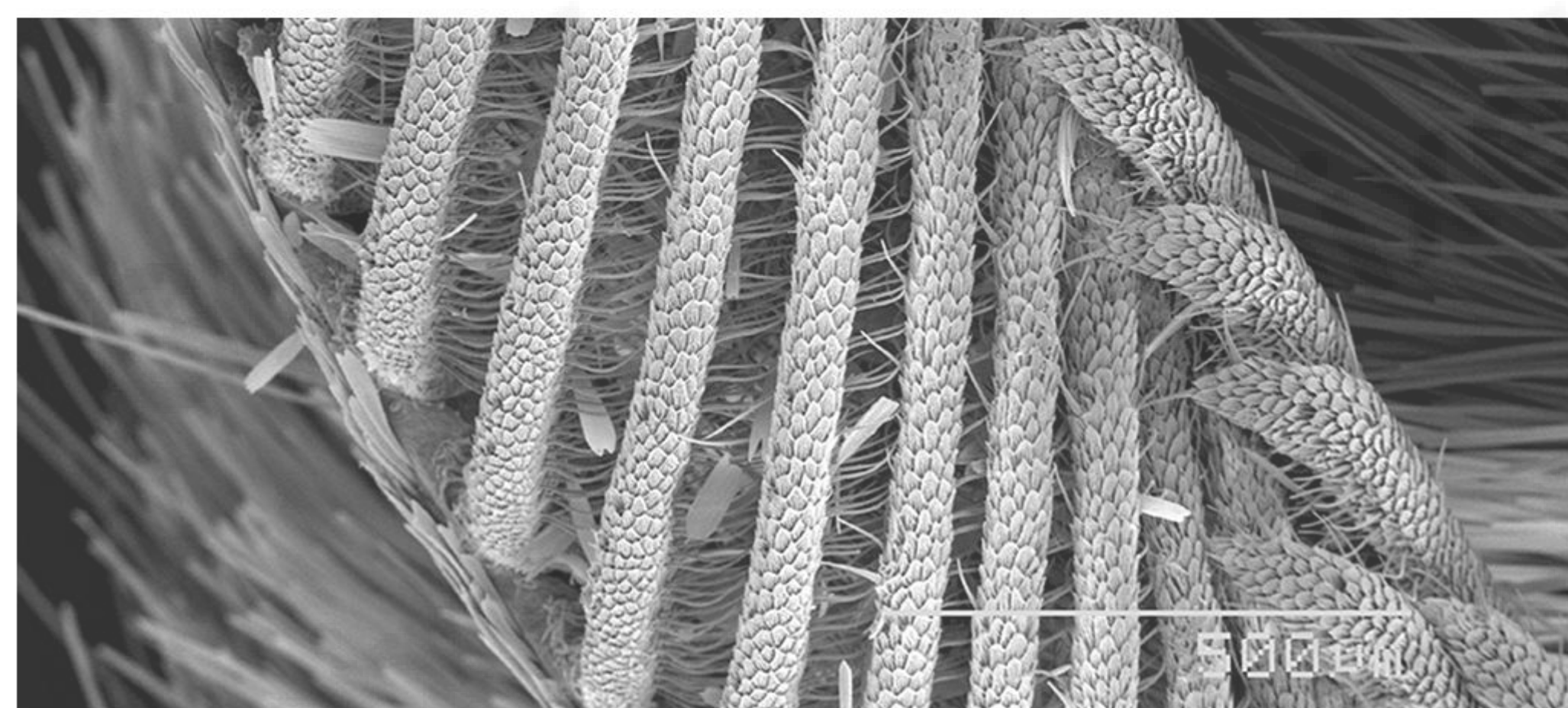
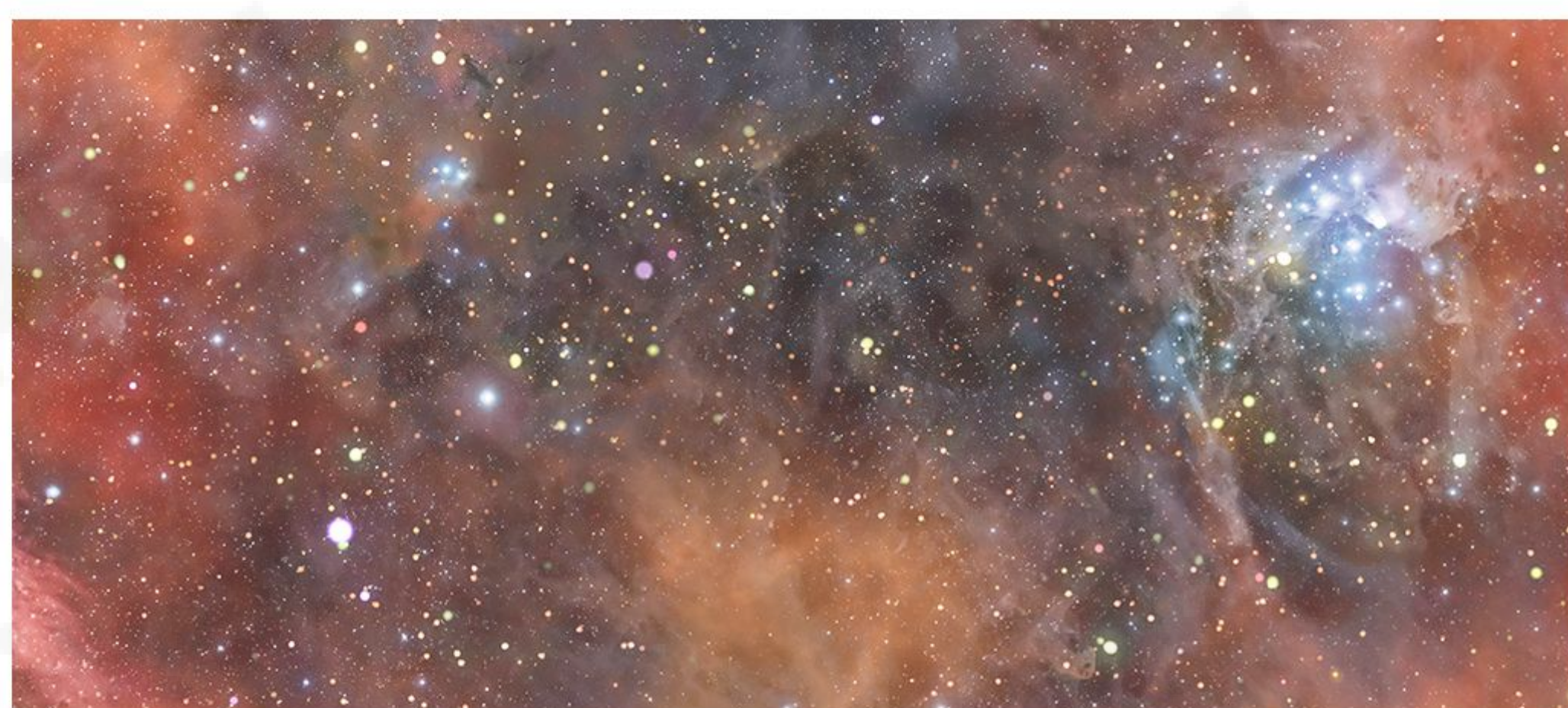
GSENSE6060BSI

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. GSENSE6060BSI supports up to 4 times correlated multiple sampling (CMS). In CMS mode, the reset and pixel output are sampled for multiple times and summed up for pixel-related noise suppression. 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

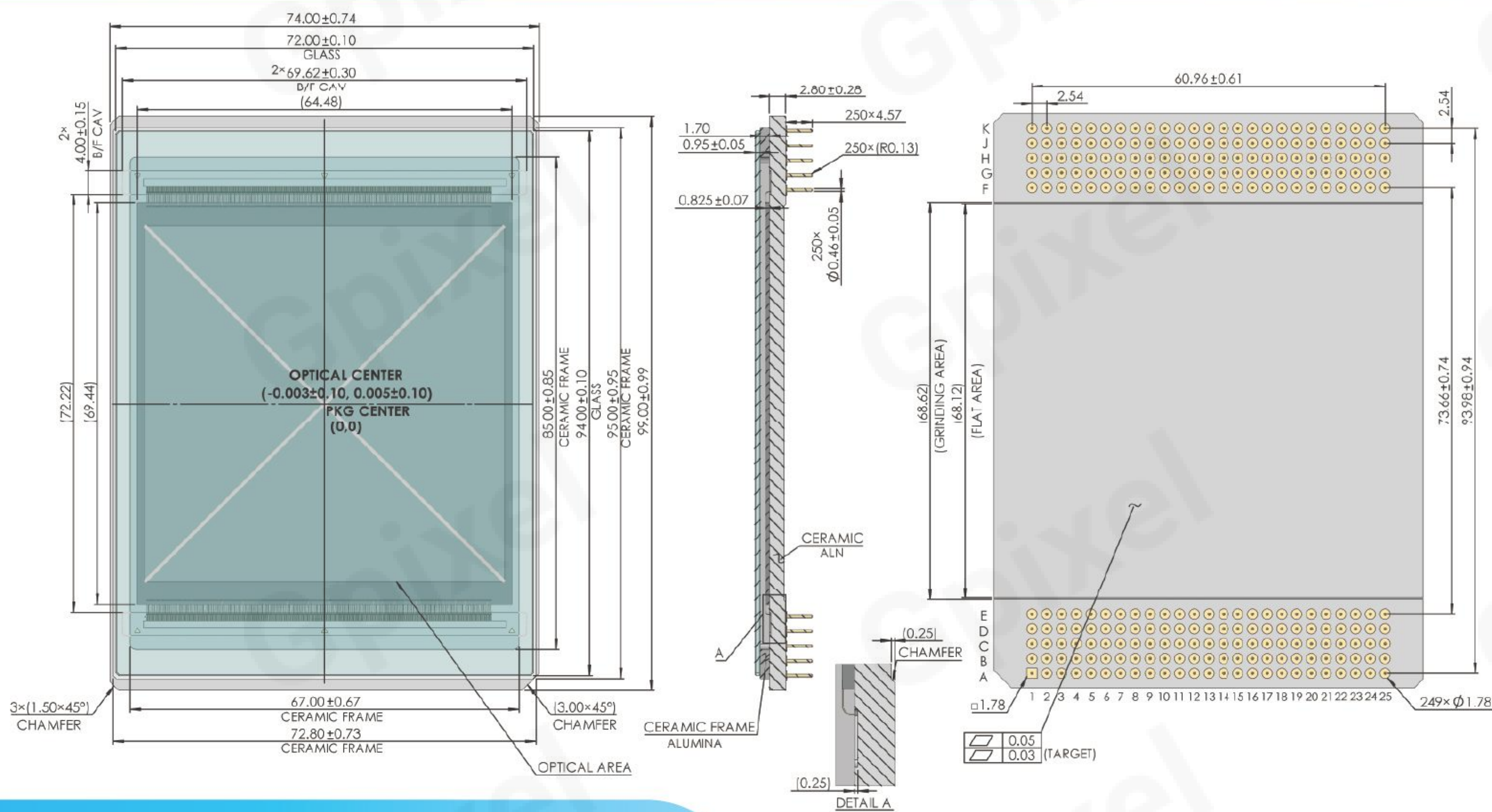
Application

- ▶ 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	2.3 e ⁻
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	4.6 W
Supply Voltage	6.5 V (analog) 1.85 V (digital)	Package	250 pins PGA (74 mm x 99 mm)

Package Drawing



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