

GXS1508/GXSM1508

1.5 μm 0.16 MP ROLLING SHUTTER CMOS IMAGE SENSOR

GXS1508 is a 0.16 (400 x 400) Megapixel backside illumination image sensor designed with 1.5 μm charge domain rolling shutter pixels. It can achieve 7 ke^- FWC and 6 e^- rms read noise.

GXS1508 is smaller than 1mm, consumes less than 20mW and can capture images and video up to 30 frames per second.

GXSM1508 is wafer level optics (WLO) integrated module based on **GXS1508** sensor, The WLO consist of 3-surface lens with F number of 5.0, the diagonal FOV is 120° .

Its unique features make it an ideal solution for medical endoscopy's disposable devices.



Key Features and Benefits

- ▶ WLO
- ▶ High Sensitivity
- ▶ Compact CSP Packaging

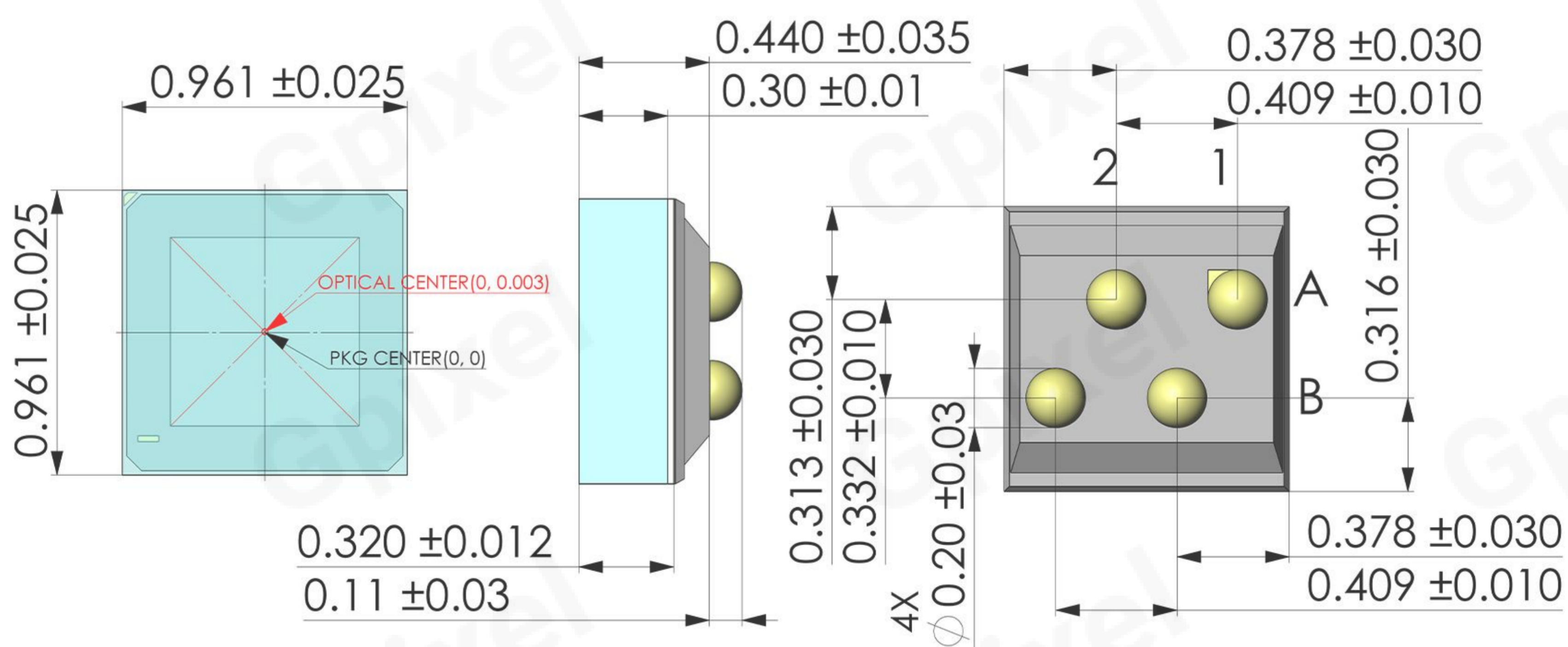
Applications

- ▶ Microscopy

Specifications

Nr of Active Pixels	400 (H) x 400 (V)	Optical Format	1/19"
Pixel Size	1.5 μm x 1.5 μm	Photosensitive Area	0.6 mm x 0.6 mm
Shutter Type	Rolling Shutter	Peak QE	54.7% (515 nm)
Full Well Capacity	7 ke ⁻	Temporal Noise	6.1 e ⁻
Dynamic Range	61.2 dB	Max Frame Rate	30 fps
Output Format	Analog	CRA	25.6° ± 3°
Dark Current	T.B.D	DSNU	T.B.D
Chroma	RGB Color	Power Consumption	17 mW
Supply Voltage	3.3 V	Package	4 pins CSP (0.961 mm x 0.961 mm x 0.55 mm)
WLO Specification			
Field of View (FOV)	Horizontal 83° Diagonal 120°	F Number	5.0
Focal Length	0.36 mm	Optical Layout	3-surface lens
TV Distortion	12.20%	DOF	4-50 mm
IR Filter	665 nm ± 10 nm		

Package Drawing



Contact Gpixel

GPIXEL CHINA CHANGCHUN (HQ)

Office Buildings 1 and 5, Phase I, Optoelectronic Information Industrial Park, No. 7691 Ziyou Road, Changchun, Jilin, China.
Phone: +86-431-85077785

Disclaimer: The product information and pictures in this flyer are for reference only. For the latest information please visit www.gpixel.com.
GP-PR260430 V1.0

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

