



Hi-1A1: Notebook CIS

Notebook CIS Overview

SK hynix CIS (CMOS Image Sensor) are expanding into applications beyond mobile devices, namely notebook PCs. The foray dates back to 2010 when we began supplying VGA sensors to our global PC accounts, and culminated in record-high sales of our 1Mp (1/6-inch) CIS in 2015. We launched a new, ultra-small 1Mp (1/11-inch) sensor in 2018 to meet the demand for ever-slimmer modules and continue expanding our CIS horizon. It bodes well that the market for high-resolution sensors will only continue growing, as the digital office and video conferencing become an integral part of daily life.

Hi-1A1

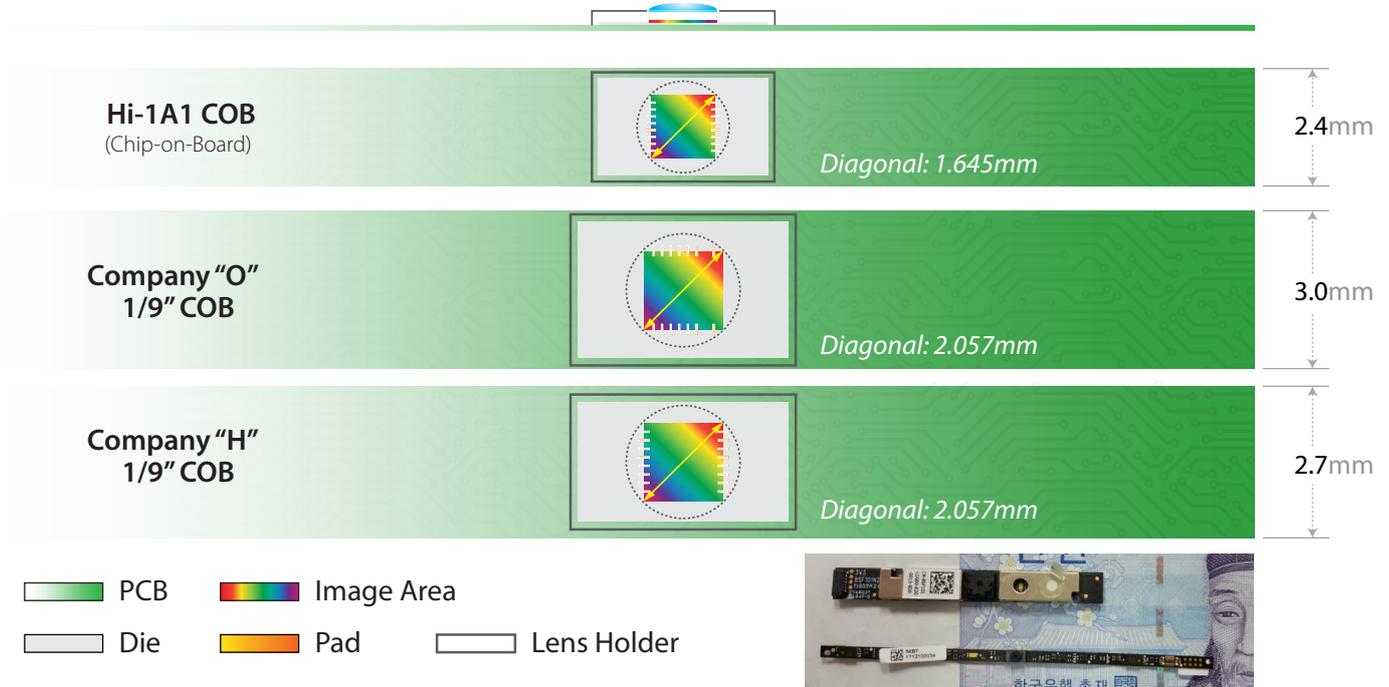
Hi-1A1 is a 1Mp HD image sensor with 1.12um pixels that deliver proven performance.

Features	Hi-1A1
Resolution	1Mpixel (1,296 x 736)
Optical format	1/11-inch
Pixel size	1.12um BSI-2C
Frame rate	<ul style="list-style-type: none">· 60fps @ HD 720P· 120fps @ BIN2
Power consumption	<ul style="list-style-type: none">· 74.1mW @ 60fps, HD 720P, MIPI 1-lane· 71.7mW @ 120fps, BIN2, MIPI 1-lane
Power supply	<ul style="list-style-type: none">· Analog: 2.8V· IO: 1.8V/2.8V· Core (Digital): 1.2V
Interface	MIPI 1-Lane
CRA	31.3 degree non-linear
OTP	4K Byte
On-chip functions	<ul style="list-style-type: none">· Black Level Calibration· 2x2 binning

Slim Module Support

Hi-1A1 supports a compact module size (Y=2.4mm) for a narrower bezel.
 (Chip size: 2,720um x 1,770um)

| Y size Comparison



Applications Expanding

- Notebook & tablet
- TV & Gaming devices
- VR Camera
- AI camera
- Security & Surveillance

Hi-1A1 can be found in many notebook PCs today, and is now expanding wider into various connected devices.

- Robot
- Drone
- Home appliance & Entertainment
- Smart watch & wearable
- Medical systems
- Automotive & Transport

- Camera-enabled assistant
- Head-mounted displays