Intro

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We use CMOS Image Sensor (CIS) instead of Charge-Coupled Device (CCD) because CIS has low power consumption than CCD on smartphone and digital camera.

However, CIS has low dynamic range and slightly high cost than CCD.

QE decrease in the side of a chip.

We designed a shifted CIS.

However, a shifted CIS still has low QE and high X-talk than normal CIS.